INTERNATIONAL STANDARD

ISO 4156-2

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Straight cylindrical involute splines — Metric module, side fit —

Part 2: Dimensions

Cannelures cylindriques droites à flancs en développante — Module métrique, à centrage sur flancs —

Partie 2: Dimensions

Reference number
ISO 4156-2:2005(E)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 4156-2 was prepared by Technical Committee ISO/TC 14, *Shafts for machinery and accessories*.

This first edition of ISO 4156-2, together with ISO 4156-1 and ISO 4156-3, cancels and replaces ISO 4156:1981 and ISO 4156:1981/Amd 1:1992, of which it constitutes a technical revision. The values and tables are the same as in ISO 4156:1981; however, some explanations and definitions have been clarified.

ISO 4156 consists of the following parts, under the general title *Straight cylindrical involute splines — Metric module, side fit*:

— *Part 1: Generalities*

— *Part 2: Dimensions*

— *Part 3: Inspection*

Introduction

ISO 4156 provides the data and indications necessary for the design, manufacture and inspection of straight (non-helical) side-fitting cylindrical involute splines.

Straight cylindrical involute splines manufactured in accordance with ISO 4156 are used for clearance, sliding and interference connections of shafts and hubs. They contain all the necessary characteristics for the assembly, transmission of torque, and economic production.

The nominal pressure angles are 30°, 37,5° and 45°. For electronic data processing purposes, the form of expression 37,5° has been adopted instead of 37°30'. ISO 4156 establishes a specification based on the following modules:

— for pressure angles of 30° and 37,5° the module increments are

0,5; 0,75; 1; 1,25; 1,5; 1,75; 2; 2,5; 3; 4; 5; 6; 8; 10

— for pressure angle of 45° the module increments are

0,25; 0,5; 0,75; 1; 1,25; 1,5; 1,75; 2; 2,5

Straight cylindrical involute splines — Metric module, side fit —

Part 2: Dimensions

1 Scope

This part of ISO 4156 specifies geometry and inspection dimensions for the design and manufacture of straight (non-helical) side-fitting cylindrical involute splines.

Limiting dimensions, tolerances, manufacturing errors and their effects on the fit between connecting coaxial spline elements are defined and tabulated. Linear dimensions are expressed in millimetres and angular dimensions in degrees.

The specified diameters for external splines in the geometry tables and the values in the inspection dimension tables are only valid for fundamental deviation “h”.

For fundamental deviations other than “h”, diameters and tooth thicknesses are calculated for external splines according to the formulae in ISO 4156-1 and inspection dimensions according to the formulae in ISO 4156-3.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4156-1:2005, *Straight cylindrical involute splines — Metric module, side fit — Part 1: Generalities*

ISO 4156-3:2005, *Straight cylindrical involute splines — Metric module, side fit — Part 3: Inspection*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4156-1 apply.

4 Symbols and abbreviated terms

D	Pitch diameter	mm
$D_{\text{Fe max}}$	Maximum form diameter, external spline	mm
$D_{\text{Fi min}}$	Minimum form diameter, internal spline	mm
D_{Re}	Diameter of measuring ball or pin for external spline	mm
D_{Ri}	Diameter of measuring ball or pin for internal spline	mm
D_{b}	Base diameter	mm
$D_{\text{ee max}}$	Maximum major diameter, external spline	mm
$D_{\text{ei max}}$	Maximum major diameter, internal spline	mm
$D_{\text{ie min}}$	Minimum major diameter, external spline	mm
$D_{\text{ii min}}$	Minimum diameter, internal spline	mm
E_{max}	Maximum actual space width	mm
E_{min}	Minimum actual space width	mm
$E_{\text{v min}}$	Minimum effective space width	mm
K_{e}	Approximation factor for external spline	—
K_{i}	Approximation factor for internal spline	—
M_{Re}	Measurement over two balls or pins, external spline	mm
M_{Ri}	Measurement between two balls or pins, internal spline	mm
S_{max}	Maximum actual tooth thickness	mm
S_{min}	Minimum actual tooth thickness	mm
$S_{\text{v max}}$	Maximum effective tooth thickness	mm
W	Measurement over k teeth, external spline	mm
z	Number of teeth	—
k	Number of measured teeth	—

5 Geometry and inspection dimensions

5.1 30° pressure angle, module 0,5

Table 1 — Geometry internal spline, $\alpha = 30°$, $m = 0,5$, flat and fillet root, $E_{v\,min} = 0,785$

z	D	D_b	$D_{ei\,max}$ Fillet root	$D_{ei\,max}$ Flat	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
							4H	5H	6H	7H
6	3,00	2,5981	4,06	3,91	3,60	2,72	0,808	0,822	0,843	0,878
7	3,50	3,0311	4,56	4,41	4,10	3,18	0,809	0,823	0,844	0,879
8	4,00	3,4641	5,07	4,92	4,60	3,66	0,809	0,823	0,845	0,880
9	4,50	3,8971	5,57	5,42	5,10	4,14	0,809	0,824	0,845	0,881
10	5,00	4,3301	6,07	5,92	5,60	4,62	0,809	0,824	0,846	0,883
11	5,50	4,7631	6,57	6,42	6,10	5,11	0,810	0,824	0,847	0,884
12	6,00	5,1962	7,07	6,92	6,60	5,60	0,810	0,825	0,847	0,884
13	6,50	5,6292	7,57	7,42	7,10	6,09	0,810	0,825	0,848	0,885
14	7,00	6,0622	8,08	7,93	7,60	6,58	0,810	0,826	0,848	0,886
15	7,50	6,4952	8,58	8,43	8,10	7,08	0,811	0,826	0,849	0,887
16	8,00	6,9282	9,08	8,93	8,60	7,57	0,811	0,826	0,849	0,888
17	8,50	7,3612	9,58	9,43	9,10	8,07	0,811	0,826	0,850	0,889
18	9,00	7,7942	10,08	9,93	9,60	8,56	0,811	0,827	0,850	0,889
19	9,50	8,2272	10,58	10,43	10,10	9,06	0,811	0,827	0,851	0,890
20	10,00	8,6603	11,08	10,93	10,60	9,56	0,811	0,827	0,851	0,891
21	10,50	9,0933	11,58	11,43	11,10	10,05	0,812	0,828	0,851	0,891
22	11,00	9,5263	12,09	11,94	11,60	10,55	0,812	0,828	0,852	0,892
23	11,50	9,9593	12,59	12,44	12,10	11,05	0,812	0,828	0,852	0,893
24	12,00	10,3923	13,09	12,94	12,60	11,55	0,812	0,828	0,853	0,893
25	12,50	10,8253	13,59	13,44	13,10	12,05	0,812	0,829	0,853	0,894
26	13,00	11,2583	14,09	13,94	13,60	12,54	0,812	0,829	0,853	0,894
27	13,50	11,6913	14,59	14,44	14,10	13,04	0,812	0,829	0,854	0,895
28	14,00	12,1244	15,09	14,94	14,60	13,54	0,813	0,829	0,854	0,895
29	14,50	12,5574	15,59	15,44	15,10	14,04	0,813	0,829	0,854	0,896
30	15,00	12,9904	16,09	15,94	15,60	14,54	0,813	0,830	0,855	0,897
31	15,50	13,4234	16,59	16,44	16,10	15,04	0,813	0,830	0,855	0,897
32	16,00	13,8564	17,09	16,94	16,60	15,54	0,813	0,830	0,855	0,898
33	16,50	14,2894	17,60	17,45	17,10	16,03	0,813	0,830	0,856	0,898
34	17,00	14,7224	18,10	17,95	17,60	16,53	0,813	0,830	0,856	0,899
35	17,50	15,1554	18,60	18,45	18,10	17,03	0,813	0,831	0,856	0,899
36	18,00	15,5885	19,10	18,95	18,60	17,53	0,814	0,831	0,857	0,899
37	18,50	16,0215	19,60	19,45	19,10	18,03	0,814	0,831	0,857	0,900
38	19,00	16,4545	20,10	19,95	19,60	18,53	0,814	0,831	0,857	0,900
39	19,50	16,8875	20,60	20,45	20,10	19,03	0,814	0,831	0,857	0,901
40	20,00	17,3205	21,10	20,95	20,60	19,53	0,814	0,831	0,858	0,901
41	20,50	17,7535	21,60	21,45	21,10	20,03	0,814	0,832	0,858	0,902
42	21,00	18,1865	22,10	21,95	21,60	20,53	0,814	0,832	0,858	0,902
43	21,50	18,6195	22,60	22,45	22,10	21,03	0,814	0,832	0,858	0,902
44	22,00	19,0526	23,10	22,95	22,60	21,53	0,814	0,832	0,859	0,903
45	22,50	19,4856	23,60	23,45	23,10	22,02	0,815	0,832	0,859	0,903
46	23,00	19,9186	24,11	23,96	23,60	22,52	0,815	0,832	0,859	0,904
47	23,50	20,3516	24,61	24,46	24,10	23,02	0,815	0,833	0,859	0,904
48	24,00	20,7846	25,11	24,96	24,60	23,52	0,815	0,833	0,860	0,904
49	24,50	21,2176	25,61	25,46	25,10	24,02	0,815	0,833	0,860	0,905
50	25,00	21,6506	26,11	25,96	25,60	24,52	0,815	0,833	0,860	0,905
51	25,50	22,0836	26,61	26,46	26,10	25,02	0,815	0,833	0,860	0,906
52	26,00	22,5167	27,11	26,96	26,60	25,52	0,815	0,833	0,861	0,906
53	26,50	22,9497	27,61	27,46	27,10	26,02	0,815	0,834	0,861	0,906
54	27,00	23,3827	28,11	27,96	27,60	26,52	0,815	0,834	0,861	0,907
55	27,50	23,8157	28,61	28,46	28,10	27,02	0,815	0,834	0,861	0,907
56	28,00	24,2487	29,11	28,96	28,60	27,52	0,816	0,834	0,861	0,907
57	28,50	24,6817	29,61	29,46	29,10	28,02	0,816	0,834	0,862	0,908
58	29,00	25,1147	30,11	29,96	29,60	28,52	0,816	0,834	0,862	0,908
59	29,50	25,5477	30,61	30,46	30,10	29,02	0,816	0,834	0,862	0,908
60	30,00	25,9808	31,11	30,96	30,60	29,52	0,816	0,834	0,862	0,909
61	30,50	26,4138	31,61	31,46	31,10	30,02	0,816	0,835	0,863	0,909
62	31,00	26,8468	32,12	31,97	31,60	30,52	0,816	0,835	0,863	0,909
63	31,50	27,2798	32,62	32,47	32,10	31,02	0,816	0,835	0,863	0,910
64	32,00	27,7128	33,12	32,97	32,60	31,52	0,816	0,835	0,863	0,910
65	32,50	28,1458	33,62	33,47	33,10	32,02	0,816	0,835	0,863	0,910
66	33,00	28,5788	34,12	33,97	33,60	32,52	0,816	0,835	0,863	0,911
67	33,50	29,0119	34,62	34,47	34,10	33,02	0,816	0,835	0,864	0,911
68	34,00	29,4449	35,12	34,97	34,60	33,52	0,817	0,835	0,864	0,911
69	34,50	29,8779	35,62	35,47	35,10	34,02	0,817	0,836	0,864	0,912
70	35,00	30,3109	36,12	35,97	35,60	34,52	0,817	0,836	0,864	0,912
71	35,50	30,7439	36,62	36,47	36,10	35,02	0,817	0,836	0,864	0,912
72	36,00	31,1769	37,12	36,97	36,60	35,52	0,817	0,836	0,865	0,912
73	36,50	31,6099	37,62	37,47	37,10	36,02	0,817	0,836	0,865	0,913
74	37,00	32,0429	38,12	37,97	37,60	36,51	0,817	0,836	0,865	0,913
75	37,50	32,4760	38,62	38,47	38,10	37,01	0,817	0,836	0,865	0,913
76	38,00	32,9090	39,12	38,97	38,60	37,51	0,817	0,836	0,865	0,914
77	38,50	33,3420	39,62	39,47	39,10	38,01	0,817	0,837	0,866	0,914
78	39,00	33,7750	40,12	39,97	39,60	38,51	0,817	0,837	0,866	0,914
79	39,50	34,2080	40,62	40,47	40,10	39,01	0,817	0,837	0,866	0,914
80	40,00	34,6410	41,12	40,97	40,60	39,51	0,817	0,837	0,866	0,915
81	40,50	35,0740	41,63	41,48	41,10	40,01	0,817	0,837	0,866	0,915
82	41,00	35,5070	42,13	41,98	41,60	40,51	0,818	0,837	0,866	0,915
83	41,50	35,9401	42,63	42,48	42,10	41,01	0,818	0,837	0,867	0,916
84	42,00	36,3731	43,13	42,98	42,60	41,51	0,818	0,837	0,867	0,916
85	42,50	36,8061	43,63	43,48	43,10	42,01	0,818	0,837	0,867	0,916
86	43,00	37,2391	44,13	43,98	43,60	42,51	0,818	0,838	0,867	0,916
87	43,50	37,6721	44,63	44,48	44,10	43,01	0,818	0,838	0,867	0,917
88	44,00	38,1051	45,13	44,98	44,60	43,51	0,818	0,838	0,867	0,917
89	44,50	38,5381	45,63	45,48	45,10	44,01	0,818	0,838	0,868	0,917
90	45,00	38,9711	46,13	45,98	45,60	44,51	0,818	0,838	0,868	0,917
91	45,50	39,4042	46,63	46,48	46,10	45,01	0,818	0,838	0,868	0,918
92	46,00	39,8372	47,13	46,98	46,60	45,51	0,818	0,838	0,868	0,918
93	46,50	40,2702	47,63	47,48	47,10	46,01	0,818	0,838	0,868	0,918
94	47,00	40,7032	48,13	47,98	47,60	46,51	0,818	0,838	0,868	0,918
95	47,50	41,1362	48,63	48,48	48,10	47,01	0,818	0,838	0,869	0,919
96	48,00	41,5692	49,13	48,98	48,60	47,51	0,818	0,839	0,869	0,919
97	48,50	42,0022	49,63	49,48	49,10	48,01	0,819	0,839	0,869	0,919
98	49,00	42,4352	50,13	49,98	49,60	48,51	0,819	0,839	0,869	0,919
99	49,50	42,8683	50,63	50,48	50,10	49,01	0,819	0,839	0,869	0,920
100	50,00	43,3013	51,13	50,98	50,60	49,51	0,819	0,839	0,869	0,920

Table 2 — Geometry external spline, $\alpha = 30°$, $m = 0{,}5$, flat and fillet root, $S_{v\,max} = 0{,}785$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$ Fillet root	$D_{ie\,min}$ Flat	S_{min}			
							4h	5h	6h	7h
6	3,00	2,5981	3,50	2,62	1,94	2,09	0,762	0,748	0,727	0,692
7	3,50	3,0311	4,00	3,08	2,44	2,59	0,761	0,747	0,726	0,691
8	4,00	3,4641	4,50	3,56	2,93	3,08	0,761	0,747	0,725	0,690
9	4,50	3,8971	5,00	4,04	3,43	3,58	0,761	0,746	0,725	0,689
10	5,00	4,3301	5,50	4,52	3,93	4,08	0,761	0,746	0,724	0,687
11	5,50	4,7631	6,00	5,01	4,43	4,58	0,760	0,746	0,723	0,686
12	6,00	5,1962	6,50	5,50	4,93	5,08	0,760	0,745	0,723	0,686
13	6,50	5,6292	7,00	5,99	5,43	5,58	0,760	0,745	0,722	0,685
14	7,00	6,0622	7,50	6,48	5,92	6,07	0,760	0,744	0,722	0,684
15	7,50	6,4952	8,00	6,98	6,42	6,57	0,759	0,744	0,721	0,683
16	8,00	6,9282	8,50	7,47	6,92	7,07	0,759	0,744	0,721	0,682
17	8,50	7,3612	9,00	7,97	7,42	7,57	0,759	0,744	0,720	0,681
18	9,00	7,7942	9,50	8,46	7,92	8,07	0,759	0,743	0,720	0,681
19	9,50	8,2272	10,00	8,96	8,42	8,57	0,759	0,743	0,719	0,680
20	10,00	8,6603	10,50	9,46	8,92	9,07	0,759	0,743	0,719	0,679
21	10,50	9,0933	11,00	9,95	9,42	9,57	0,758	0,742	0,719	0,679
22	11,00	9,5263	11,50	10,45	9,91	10,06	0,758	0,742	0,718	0,678
23	11,50	9,9593	12,00	10,95	10,41	10,56	0,758	0,742	0,718	0,677
24	12,00	10,3923	12,50	11,45	10,91	11,06	0,758	0,742	0,717	0,677
25	12,50	10,8253	13,00	11,95	11,41	11,56	0,758	0,741	0,717	0,676
26	13,00	11,2583	13,50	12,44	11,91	12,06	0,758	0,741	0,717	0,676
27	13,50	11,6913	14,00	12,94	12,41	12,56	0,758	0,741	0,716	0,675
28	14,00	12,1244	14,50	13,44	12,91	13,06	0,757	0,741	0,716	0,675
29	14,50	12,5574	15,00	13,94	13,41	13,56	0,757	0,741	0,716	0,674
30	15,00	12,9904	15,50	14,44	13,91	14,06	0,757	0,740	0,715	0,673
31	15,50	13,4234	16,00	14,94	14,41	14,56	0,757	0,740	0,715	0,673
32	16,00	13,8564	16,50	15,44	14,91	15,06	0,757	0,740	0,715	0,672
33	16,50	14,2894	17,00	15,93	15,40	15,55	0,757	0,740	0,714	0,672
34	17,00	14,7224	17,50	16,43	15,90	16,05	0,757	0,740	0,714	0,671
35	17,50	15,1554	18,00	16,93	16,40	16,55	0,757	0,739	0,714	0,671
36	18,00	15,5885	18,50	17,43	16,90	17,05	0,756	0,739	0,713	0,671
37	18,50	16,0215	19,00	17,93	17,40	17,55	0,756	0,739	0,713	0,670
38	19,00	16,4545	19,50	18,43	17,90	18,05	0,756	0,739	0,713	0,670
39	19,50	16,8875	20,00	18,93	18,40	18,55	0,756	0,739	0,713	0,669
40	20,00	17,3205	20,50	19,43	18,90	19,05	0,756	0,739	0,712	0,669
41	20,50	17,7535	21,00	19,93	19,40	19,55	0,756	0,738	0,712	0,668
42	21,00	18,1865	21,50	20,43	19,90	20,05	0,756	0,738	0,712	0,668
43	21,50	18,6195	22,00	20,93	20,40	20,55	0,756	0,738	0,712	0,668
44	22,00	19,0526	22,50	21,43	20,90	21,05	0,756	0,738	0,711	0,667
45	22,50	19,4856	23,00	21,92	21,40	21,55	0,755	0,738	0,711	0,667
46	23,00	19,9186	23,50	22,42	21,89	22,04	0,755	0,738	0,711	0,666
47	23,50	20,3516	24,00	22,92	22,39	22,54	0,755	0,737	0,711	0,666
48	24,00	20,7846	24,50	23,42	22,89	23,04	0,755	0,737	0,710	0,666
49	24,50	21,2176	25,00	23,92	23,39	23,54	0,755	0,737	0,710	0,665
50	25,00	21,6506	25,50	24,42	23,89	24,04	0,755	0,737	0,710	0,665
51	25,50	22,0836	26,00	24,92	24,39	24,54	0,755	0,737	0,710	0,664
52	26,00	22,5167	26,50	25,42	24,89	25,04	0,755	0,737	0,709	0,664
53	26,50	22,9497	27,00	25,92	25,39	25,54	0,755	0,736	0,709	0,664
54	27,00	23,3827	27,50	26,42	25,89	26,04	0,755	0,736	0,709	0,663
55	27,50	23,8157	28,00	26,92	26,39	26,54	0,755	0,736	0,709	0,663
56	28,00	24,2487	28,50	27,42	26,89	27,04	0,754	0,736	0,709	0,663
57	28,50	24,6817	29,00	27,92	27,39	27,54	0,754	0,736	0,708	0,662
58	29,00	25,1147	29,50	28,42	27,89	28,04	0,754	0,736	0,708	0,662
59	29,50	25,5477	30,00	28,92	28,39	28,54	0,754	0,736	0,708	0,662
60	30,00	25,9808	30,50	29,42	28,89	29,04	0,754	0,736	0,708	0,661
61	30,50	26,4138	31,00	29,92	29,39	29,54	0,754	0,735	0,707	0,661
62	31,00	26,8468	31,50	30,42	29,88	30,03	0,754	0,735	0,707	0,661
63	31,50	27,2798	32,00	30,92	30,38	30,53	0,754	0,735	0,707	0,660
64	32,00	27,7128	32,50	31,42	30,88	31,03	0,754	0,735	0,707	0,660
65	32,50	28,1458	33,00	31,92	31,38	31,53	0,754	0,735	0,707	0,660
66	33,00	28,5788	33,50	32,42	31,88	32,03	0,754	0,735	0,707	0,659
67	33,50	29,0119	34,00	32,92	32,38	32,53	0,754	0,735	0,706	0,659
68	34,00	29,4449	34,50	33,42	32,88	33,03	0,753	0,735	0,706	0,659
69	34,50	29,8779	35,00	33,92	33,38	33,53	0,753	0,734	0,706	0,658
70	35,00	30,3109	35,50	34,42	33,88	34,03	0,753	0,734	0,706	0,658
71	35,50	30,7439	36,00	34,92	34,38	34,53	0,753	0,734	0,706	0,658
72	36,00	31,1769	36,50	35,42	34,88	35,03	0,753	0,734	0,705	0,658
73	36,50	31,6099	37,00	35,92	35,38	35,53	0,753	0,734	0,705	0,657
74	37,00	32,0429	37,50	36,41	35,88	36,03	0,753	0,734	0,705	0,657
75	37,50	32,4760	38,00	36,91	36,38	36,53	0,753	0,734	0,705	0,657
76	38,00	32,9090	38,50	37,41	36,88	37,03	0,753	0,734	0,705	0,656
77	38,50	33,3420	39,00	37,91	37,38	37,53	0,753	0,733	0,704	0,656
78	39,00	33,7750	39,50	38,41	37,88	38,03	0,753	0,733	0,704	0,656
79	39,50	34,2080	40,00	38,91	38,38	38,53	0,753	0,733	0,704	0,656
80	40,00	34,6410	40,50	39,41	38,88	39,03	0,753	0,733	0,704	0,655
81	40,50	35,0740	41,00	39,91	39,37	39,52	0,753	0,733	0,704	0,655
82	41,00	35,5070	41,50	40,41	39,87	40,02	0,752	0,733	0,704	0,655
83	41,50	35,9401	42,00	40,91	40,37	40,52	0,752	0,733	0,703	0,654
84	42,00	36,3731	42,50	41,41	40,87	41,02	0,752	0,733	0,703	0,654
85	42,50	36,8061	43,00	41,91	41,37	41,52	0,752	0,733	0,703	0,654
86	43,00	37,2391	43,50	42,41	41,87	42,02	0,752	0,732	0,703	0,654
87	43,50	37,6721	44,00	42,91	42,37	42,52	0,752	0,732	0,703	0,653
88	44,00	38,1051	44,50	43,41	42,87	43,02	0,752	0,732	0,703	0,653
89	44,50	38,5381	45,00	43,91	43,37	43,52	0,752	0,732	0,702	0,653
90	45,00	38,9711	45,50	44,41	43,87	44,02	0,752	0,732	0,702	0,653
91	45,50	39,4042	46,00	44,91	44,37	44,52	0,752	0,732	0,702	0,652
92	46,00	39,8372	46,50	45,41	44,87	45,02	0,752	0,732	0,702	0,652
93	46,50	40,2702	47,00	45,91	45,37	45,52	0,752	0,732	0,702	0,652
94	47,00	40,7032	47,50	46,41	45,87	46,02	0,752	0,732	0,702	0,652
95	47,50	41,1362	48,00	46,91	46,37	46,52	0,752	0,732	0,701	0,651
96	48,00	41,5692	48,50	47,41	46,87	47,02	0,752	0,731	0,701	0,651
97	48,50	42,0022	49,00	47,91	47,37	47,52	0,751	0,731	0,701	0,651
98	49,00	42,4352	49,50	48,41	47,87	48,02	0,751	0,731	0,701	0,651
99	49,50	42,8683	50,00	48,91	48,37	48,52	0,751	0,731	0,701	0,650
100	50,00	43,3013	50,50	49,41	48,87	49,02	0,751	0,731	0,701	0,650

Table 3 — Inspection dimensions internal spline, $\alpha = 30°$, $m = 0{,}5$, flat or fillet root, $E_{v\,min} = 0{,}785$

z	D_{Ri}	Measurement over balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—	—
8	0,85	2,752	2,791	2,767	2,830	2,788	2,882	2,821	2,960	2,079
9	0,85	3,207	3,241	3,220	3,276	3,239	3,324	3,268	3,399	1,987
10	0,85	3,780	3,813	3,793	3,846	3,810	3,894	3,838	3,969	1,974
11	0,85	4,235	4,266	4,247	4,298	4,264	4,344	4,291	4,418	1,922
12	0,85	4,793	4,823	4,805	4,855	4,821	4,901	4,848	4,975	1,917
13	0,90	5,071	5,104	5,084	5,139	5,102	5,189	5,131	5,268	2,031
14	0,90	5,623	5,655	5,636	5,689	5,653	5,739	5,682	5,817	2,011
15	0,90	6,091	6,122	6,103	6,155	6,120	6,203	6,148	6,281	1,972
16	0,90	6,634	6,665	6,646	6,698	6,663	6,746	6,691	6,823	1,960
17	0,90	7,104	7,134	7,116	7,166	7,133	7,214	7,160	7,291	1,932
18	0,90	7,642	7,672	7,654	7,704	7,670	7,751	7,697	7,828	1,924
19	0,90	8,114	8,143	8,126	8,175	8,142	8,222	8,169	8,299	1,904
20	0,90	8,648	8,677	8,659	8,709	8,676	8,756	8,702	8,832	1,898
21	0,90	9,122	9,151	9,134	9,182	9,150	9,229	9,176	9,305	1,882
22	0,90	9,652	9,681	9,664	9,712	9,680	9,759	9,707	9,836	1,878
23	0,90	10,128	10,157	10,140	10,188	10,156	10,235	10,183	10,311	1,865
24	0,90	10,656	10,684	10,667	10,716	10,684	10,762	10,710	10,839	1,862
25	0,90	11,133	11,161	11,145	11,193	11,161	11,240	11,188	11,316	1,852
26	0,90	11,659	11,687	11,670	11,718	11,687	11,765	11,713	11,842	1,849
27	0,90	12,138	12,166	12,149	12,197	12,166	12,244	12,192	12,321	1,841
28	0,90	12,661	12,689	12,673	12,721	12,689	12,768	12,716	12,844	1,839
29	0,90	13,142	13,169	13,153	13,201	13,170	13,248	13,196	13,325	1,831
30	0,90	13,663	13,691	13,675	13,723	13,692	13,770	13,718	13,847	1,830
31	0,90	14,145	14,172	14,157	14,204	14,173	14,251	14,200	14,329	1,823
32	0,90	14,665	14,693	14,677	14,724	14,694	14,772	14,720	14,849	1,822
33	0,90	15,148	15,175	15,160	15,207	15,176	15,254	15,203	15,332	1,817
34	0,90	15,667	15,694	15,679	15,726	15,695	15,773	15,722	15,851	1,815
35	0,90	16,150	16,178	16,162	16,210	16,179	16,257	16,206	16,335	1,811
36	0,90	16,668	16,696	16,680	16,728	16,697	16,775	16,724	16,853	1,810
37	0,90	17,153	17,180	17,165	17,212	17,182	17,260	17,209	17,338	1,805
38	0,90	17,670	17,697	17,682	17,729	17,699	17,777	17,726	17,855	1,805
39	0,90	18,155	18,182	18,167	18,214	18,184	18,262	18,211	18,341	1,801
40	0,90	18,671	18,698	18,683	18,730	18,700	18,778	18,727	18,857	1,800
41	0,90	19,157	19,184	19,169	19,216	19,186	19,264	19,213	19,343	1,797
42	0,90	19,672	19,699	19,684	19,731	19,701	19,779	19,729	19,859	1,796
43	0,90	20,159	20,186	20,171	20,218	20,188	20,266	20,215	20,346	1,793
44	0,90	20,673	20,700	20,685	20,732	20,703	20,781	20,730	20,861	1,793
45	0,90	21,160	21,187	21,172	21,220	21,190	21,268	21,217	21,348	1,790
46	0,90	21,674	21,701	21,686	21,734	21,704	21,782	21,732	21,862	1,789
47	0,90	22,162	22,188	22,174	22,221	22,192	22,270	22,219	22,350	1,787
48	0,90	22,675	22,702	22,687	22,734	22,705	22,783	22,733	22,864	1,786
49	0,90	23,163	23,190	23,176	23,223	23,193	23,271	23,221	23,352	1,784
50	0,90	23,676	23,703	23,688	23,735	23,706	23,784	23,734	23,865	1,784
51	0,90	24,164	24,191	24,177	24,224	24,195	24,273	24,223	24,354	1,782
52	0,90	24,677	24,703	24,689	24,736	24,707	24,785	24,735	24,867	1,781
53	0,90	25,166	25,192	25,178	25,225	25,196	25,274	25,224	25,356	1,779
54	0,90	25,677	25,704	25,690	25,737	25,708	25,786	25,736	25,868	1,779
55	0,90	26,167	26,193	26,179	26,226	26,197	26,276	26,226	26,358	1,777
56	0,90	26,678	26,705	26,691	26,738	26,709	26,787	26,738	26,869	1,777
57	0,90	27,168	27,194	27,181	27,228	27,199	27,277	27,227	27,359	1,775
58	0,90	27,679	27,705	27,692	27,739	27,710	27,788	27,739	27,871	1,775
59	0,90	28,169	28,195	28,182	28,229	28,200	28,279	28,229	28,361	1,774
60	0,90	28,679	28,706	28,692	28,739	28,711	28,789	28,740	28,872	1,773
61	0,90	29,170	29,196	29,183	29,230	29,201	29,280	29,230	29,363	1,772
62	0,90	29,680	29,707	29,693	29,740	29,712	29,790	29,741	29,873	1,772
63	0,90	30,171	30,197	30,184	30,231	30,202	30,281	30,231	30,364	1,770
64	0,90	30,681	30,707	30,694	30,741	30,712	30,791	30,742	30,874	1,770
65	0,90	31,171	31,198	31,185	31,232	31,203	31,282	31,233	31,366	1,769
66	0,90	31,681	31,708	31,694	31,741	31,713	31,792	31,743	31,876	1,769
67	0,90	32,172	32,199	32,186	32,233	32,204	32,283	32,234	32,367	1,768
68	0,90	32,682	32,708	32,695	32,742	32,714	32,793	32,744	32,877	1,768
69	0,90	33,173	33,199	33,186	33,233	33,205	33,284	33,235	33,368	1,766
70	0,90	33,682	33,709	33,696	33,743	33,715	33,794	33,744	33,878	1,766
71	0,90	34,174	34,200	34,187	34,234	34,206	34,285	34,236	34,370	1,765
72	0,90	34,683	34,709	34,696	34,743	34,715	34,794	34,745	34,879	1,765
73	0,90	35,175	35,201	35,188	35,235	35,207	35,286	35,237	35,371	1,764
74	0,90	35,683	35,709	35,697	35,744	35,716	35,795	35,746	35,880	1,764
75	0,90	36,175	36,202	36,189	36,236	36,208	36,287	36,238	36,372	1,763
76	0,90	36,684	36,710	36,697	36,744	36,717	36,796	36,747	36,881	1,763
77	0,90	37,176	37,202	37,190	37,237	37,209	37,288	37,240	37,374	1,762
78	0,90	37,684	37,710	37,698	37,745	37,717	37,797	37,748	37,882	1,762
79	0,90	38,177	38,203	38,190	38,237	38,210	38,289	38,241	38,375	1,761
80	0,90	38,684	38,711	38,698	38,745	38,718	38,797	38,749	38,883	1,761
81	0,90	39,177	39,203	39,191	39,238	39,211	39,290	39,242	39,376	1,760
82	0,90	39,685	39,711	39,699	39,746	39,719	39,798	39,750	39,884	1,760
83	0,90	40,178	40,204	40,192	40,239	40,212	40,291	40,243	40,377	1,760
84	0,90	40,685	40,711	40,699	40,746	40,719	40,799	40,750	40,885	1,759
85	0,90	41,178	41,204	41,192	41,239	41,212	41,292	41,244	41,379	1,759
86	0,90	41,686	41,712	41,700	41,747	41,720	41,799	41,751	41,886	1,759
87	0,90	42,179	42,205	42,193	42,240	42,213	42,293	42,244	42,380	1,758
88	0,90	42,686	42,712	42,700	42,747	42,720	42,800	42,752	42,887	1,758
89	0,90	43,179	43,206	43,194	43,241	43,214	43,293	43,245	43,381	1,757
90	0,90	43,686	43,713	43,701	43,748	43,721	43,801	43,753	43,888	1,757
91	0,90	44,180	44,206	44,194	44,241	44,215	44,294	44,246	44,382	1,757
92	0,90	44,687	44,713	44,701	44,748	44,722	44,801	44,753	44,889	1,757
93	0,90	45,180	45,207	45,195	45,242	45,215	45,295	45,247	45,383	1,756
94	0,90	45,687	45,713	45,702	45,749	45,722	45,802	45,754	45,890	1,756
95	0,90	46,181	46,207	46,196	46,243	46,216	46,296	46,248	46,384	1,755
96	0,90	46,688	46,714	46,702	46,749	46,723	46,802	46,755	46,891	1,755
97	0,90	47,181	47,207	47,196	47,243	47,217	47,296	47,249	47,385	1,755
98	0,90	47,688	47,714	47,703	47,750	47,723	47,803	47,756	47,892	1,755
99	0,90	48,182	48,208	48,197	48,244	48,217	48,297	48,250	48,386	1,754
100	0,90	48,688	48,714	48,703	48,750	48,724	48,804	48,756	48,893	1,754

Table 4 — Inspection dimensions external spline, $\alpha = 30°$, $m = 0{,}5$, flat or fillet root, $S_{v\,max} = 0{,}785$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	1,12	4,797	4,813	4,780	4,807	4,754	4,798	4,711	4,784	1,255
7	1,12	5,204	5,220	5,187	5,214	5,161	5,206	5,117	5,191	1,254
8	1,06	5,670	5,687	5,651	5,681	5,622	5,671	5,575	5,655	1,350
9	1,06	6,099	6,117	6,080	6,110	6,051	6,101	6,003	6,085	1,354
10	1,06	6,683	6,701	6,663	6,694	6,633	6,684	6,582	6,668	1,395
11	1,00	6,970	6,989	6,950	6,982	6,918	6,972	6,866	6,955	1,441
12	1,00	7,535	7,555	7,514	7,547	7,482	7,537	7,427	7,519	1,471
13	1,00	7,987	8,007	7,965	7,999	7,933	7,988	7,878	7,970	1,475
14	1,00	8,541	8,561	8,519	8,554	8,485	8,542	8,429	8,524	1,498
15	1,00	8,999	9,020	8,977	9,012	8,943	9,001	8,886	8,982	1,501
16	1,00	9,546	9,566	9,523	9,558	9,488	9,547	9,430	9,528	1,520
17	1,00	10,009	10,030	9,986	10,022	9,951	10,010	9,892	9,991	1,523
18	1,00	10,549	10,571	10,526	10,562	10,490	10,550	10,431	10,531	1,538
19	1,00	11,017	11,038	10,993	11,029	10,957	11,017	10,897	10,998	1,541
20	1,00	11,552	11,574	11,528	11,565	11,492	11,553	11,431	11,533	1,554
21	0,95	11,884	11,906	11,860	11,898	11,822	11,885	11,760	11,864	1,587
22	0,95	12,416	12,438	12,391	12,429	12,353	12,416	12,289	12,396	1,597
23	0,95	12,889	12,911	12,864	12,902	12,826	12,889	12,761	12,868	1,598
24	0,95	13,417	13,440	13,392	13,431	13,353	13,418	13,289	13,396	1,607
25	0,95	13,892	13,915	13,867	13,906	13,828	13,892	13,763	13,871	1,608
26	0,95	14,419	14,441	14,393	14,432	14,354	14,419	14,288	14,397	1,615
27	0,95	14,896	14,918	14,869	14,909	14,830	14,895	14,764	14,874	1,616
28	0,95	15,420	15,442	15,393	15,433	15,354	15,419	15,287	15,397	1,623
29	0,95	15,898	15,921	15,872	15,911	15,832	15,898	15,764	15,876	1,624
30	0,95	16,420	16,443	16,394	16,434	16,353	16,420	16,286	16,398	1,629
31	0,95	16,900	16,923	16,873	16,914	16,833	16,900	16,765	16,877	1,630
32	0,95	17,421	17,444	17,394	17,434	17,353	17,420	17,285	17,398	1,635
33	0,95	17,902	17,926	17,875	17,916	17,834	17,901	17,765	17,879	1,636
34	0,95	18,422	18,445	18,394	18,435	18,353	18,421	18,284	18,398	1,641
35	0,95	18,904	18,927	18,876	18,917	18,835	18,903	18,765	18,880	1,642
36	0,95	19,422	19,446	19,395	19,436	19,353	19,421	19,283	19,398	1,646
37	0,95	19,906	19,929	19,878	19,919	19,836	19,904	19,765	19,881	1,646
38	0,95	20,423	20,446	20,395	20,436	20,353	20,421	20,281	20,398	1,650
39	0,95	20,907	20,930	20,879	20,920	20,836	20,905	20,765	20,881	1,651
40	0,95	21,423	21,447	21,395	21,436	21,352	21,421	21,280	21,397	1,654
41	0,95	21,908	21,932	21,880	21,921	21,837	21,906	21,765	21,882	1,655
42	0,95	22,424	22,447	22,395	22,437	22,352	22,422	22,279	22,397	1,658
43	0,95	22,909	22,933	22,880	22,922	22,837	22,907	22,764	22,882	1,658
44	0,95	23,424	23,448	23,395	23,437	23,351	23,422	23,278	23,397	1,661
45	0,95	23,910	23,934	23,881	23,923	23,837	23,908	23,764	23,883	1,661
46	0,95	24,424	24,448	24,395	24,437	24,351	24,422	24,277	24,397	1,664
47	0,95	24,911	24,935	24,882	24,924	24,838	24,908	24,764	24,883	1,664
48	0,95	25,424	25,448	25,395	25,437	25,351	25,422	25,276	25,396	1,667
49	0,95	25,912	25,936	25,882	25,925	25,838	25,909	25,763	25,883	1,667
50	0,95	26,425	26,449	26,395	26,437	26,350	26,421	26,275	26,396	1,669
51	0,95	26,912	26,936	26,883	26,925	26,838	26,909	26,763	26,884	1,670
52	0,95	27,425	27,449	27,395	27,437	27,350	27,421	27,274	27,396	1,672
53	0,95	27,913	27,937	27,883	27,926	27,838	27,909	27,762	27,884	1,672
54	0,95	28,425	28,449	28,395	28,438	28,349	28,421	28,273	28,395	1,674
55	0,95	28,914	28,938	28,883	28,926	28,838	28,910	28,761	28,884	1,674
56	0,95	29,425	29,449	29,395	29,438	29,349	29,421	29,272	29,395	1,676
57	0,95	29,914	29,938	29,884	29,927	29,838	29,910	29,761	29,884	1,676
58	0,95	30,425	30,449	30,395	30,438	30,348	30,421	30,271	30,395	1,678
59	0,95	30,914	30,939	30,884	30,927	30,838	30,910	30,760	30,884	1,678
60	0,95	31,425	31,449	31,394	31,438	31,348	31,421	31,270	31,394	1,680
61	0,95	31,915	31,939	31,884	31,927	31,838	31,910	31,760	31,884	1,680
62	0,95	32,425	32,450	32,394	32,438	32,348	32,421	32,269	32,394	1,682
63	0,95	32,915	32,940	32,884	32,928	32,837	32,911	32,759	32,884	1,682
64	0,95	33,425	33,450	33,394	33,438	33,347	33,420	33,269	33,393	1,683
65	0,95	33,916	33,940	33,884	33,928	33,837	33,911	33,758	33,883	1,684
66	0,95	34,425	34,450	34,394	34,437	34,347	34,420	34,268	34,393	1,685
67	0,95	34,916	34,940	34,884	34,928	34,837	34,911	34,758	34,883	1,685
68	0,95	35,425	35,450	35,394	35,437	35,346	35,420	35,267	35,392	1,686
69	0,95	35,916	35,941	35,885	35,928	35,837	35,911	35,757	35,883	1,686
70	0,95	36,425	36,450	36,394	36,437	36,346	36,420	36,266	36,392	1,688
71	0,95	36,916	36,941	36,885	36,928	36,837	36,911	36,757	36,883	1,688
72	0,95	37,425	37,450	37,393	37,437	37,345	37,419	37,265	37,391	1,689
73	0,95	37,917	37,941	37,885	37,929	37,837	37,911	37,756	37,883	1,689
74	0,95	38,425	38,450	38,393	38,437	38,345	38,419	38,264	38,391	1,690
75	0,95	38,917	38,941	38,885	38,929	38,836	38,911	38,755	38,882	1,690
76	0,95	39,425	39,450	39,393	39,437	39,344	39,419	39,263	39,390	1,691
77	0,95	39,917	39,942	39,885	39,929	39,836	39,911	39,755	39,882	1,691
78	0,95	40,425	40,450	40,393	40,437	40,344	40,419	40,262	40,390	1,692
79	0,95	40,917	40,942	40,885	40,929	40,836	40,911	40,754	40,882	1,693
80	0,95	41,425	41,450	41,393	41,437	41,344	41,418	41,261	41,389	1,693
81	0,95	41,917	41,942	41,885	41,929	41,836	41,911	41,753	41,882	1,694
82	0,95	42,425	42,450	42,392	42,437	42,343	42,418	42,261	42,389	1,694
83	0,95	42,918	42,942	42,885	42,929	42,835	42,910	42,753	42,881	1,695
84	0,95	43,425	43,450	43,392	43,436	43,343	43,418	43,260	43,389	1,695
85	0,95	43,918	43,942	43,885	43,929	43,835	43,910	43,752	43,881	1,696
86	0,95	44,425	44,450	44,392	44,436	44,342	44,418	44,259	44,388	1,696
87	0,95	44,918	44,942	44,885	44,929	44,835	44,910	44,751	44,881	1,696
88	0,95	45,425	45,450	45,392	45,436	45,342	45,417	45,258	45,388	1,697
89	0,95	45,918	45,943	45,885	45,929	45,835	45,910	45,751	45,880	1,697
90	0,95	46,425	46,450	46,392	46,436	46,341	46,417	46,257	46,387	1,698
91	0,95	46,918	46,943	46,885	46,929	46,834	46,910	46,750	46,880	1,698
92	0,95	47,425	47,450	47,391	47,436	47,341	47,417	47,256	47,387	1,699
93	0,95	47,918	47,943	47,885	47,929	47,834	47,910	47,749	47,880	1,699
94	0,95	48,425	48,449	48,391	48,436	48,340	48,416	48,256	48,386	1,700
95	0,95	48,918	48,943	48,884	48,929	48,834	48,910	48,749	48,879	1,700
96	0,95	49,425	49,449	49,391	49,436	49,340	49,416	49,255	49,386	1,700
97	0,95	49,918	49,943	49,884	49,929	49,833	49,910	49,748	49,879	1,700
98	0,95	50,425	50,449	50,391	50,435	50,340	50,416	50,254	50,385	1,701
99	0,95	50,918	50,943	50,884	50,929	50,833	50,909	50,747	50,879	1,701
100	0,95	51,425	51,449	51,390	51,435	51,339	51,415	51,253	51,385	1,702

5.2 30° pressure angle, module 0,75

Table 5 — Geometry internal spline, $\alpha = 30°$, $m = 0{,}75$, flat and fillet root, $E_{v\,min} = 1{,}178$

z	D	D_b	$D_{ei\,max}$ Fillet root	$D_{ei\,max}$ Flat	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
							4H	5H	6H	7H
6	4,50	3,8971	6,03	5,81	5,40	4,07	1,205	1,220	1,244	1,284
7	5,25	4,5466	6,79	6,56	6,15	4,77	1,205	1,221	1,245	1,286
8	6,00	5,1962	7,54	7,31	6,90	5,48	1,205	1,222	1,246	1,287
9	6,75	5,8457	8,29	8,07	7,65	6,20	1,206	1,222	1,247	1,289
10	7,50	6,4952	9,04	8,82	8,40	6,93	1,206	1,223	1,248	1,290
11	8,25	7,1447	9,80	9,57	9,15	7,66	1,206	1,223	1,249	1,291
12	9,00	7,7942	10,55	10,32	9,90	8,40	1,207	1,224	1,249	1,292
13	9,75	8,4437	11,30	11,07	10,65	9,14	1,207	1,224	1,250	1,293
14	10,50	9,0933	12,05	11,83	11,40	9,88	1,207	1,224	1,251	1,294
15	11,25	9,7428	12,80	12,58	12,15	10,62	1,207	1,225	1,251	1,295
16	12,00	10,3923	13,55	13,33	12,90	11,36	1,207	1,225	1,252	1,296
17	12,75	11,0418	14,31	14,08	13,65	12,10	1,208	1,226	1,252	1,297
18	13,50	11,6913	15,06	14,83	14,40	12,85	1,208	1,226	1,253	1,298
19	14,25	12,3409	15,81	15,58	15,15	13,59	1,208	1,226	1,253	1,298
20	15,00	12,9904	16,56	16,33	15,90	14,34	1,208	1,226	1,254	1,299
21	15,75	13,6399	17,31	17,09	16,65	15,08	1,208	1,227	1,254	1,300
22	16,50	14,2894	18,06	17,84	17,40	15,83	1,209	1,227	1,255	1,301
23	17,25	14,9389	18,81	18,59	18,15	16,57	1,209	1,227	1,255	1,301
24	18,00	15,5885	19,56	19,34	18,90	17,32	1,209	1,228	1,256	1,302
25	18,75	16,2380	20,32	20,09	19,65	18,07	1,209	1,228	1,256	1,303
26	19,50	16,8875	21,07	20,84	20,40	18,82	1,209	1,228	1,256	1,303
27	20,25	17,5370	21,82	21,59	21,15	19,56	1,210	1,228	1,257	1,304
28	21,00	18,1865	22,57	22,34	21,90	20,31	1,210	1,229	1,257	1,305
29	21,75	18,8361	23,32	23,10	22,65	21,06	1,210	1,229	1,258	1,305
30	22,50	19,4856	24,07	23,85	23,40	21,81	1,210	1,229	1,258	1,306
31	23,25	20,1351	24,82	24,60	24,15	22,55	1,210	1,229	1,258	1,307
32	24,00	20,7846	25,57	25,35	24,90	23,30	1,210	1,230	1,259	1,307
33	24,75	21,4341	26,32	26,10	25,65	24,05	1,210	1,230	1,259	1,308
34	25,50	22,0836	27,08	26,85	26,40	24,80	1,211	1,230	1,259	1,308
35	26,25	22,7332	27,83	27,60	27,15	25,55	1,211	1,230	1,260	1,309
36	27,00	23,3827	28,58	28,35	27,90	26,30	1,211	1,231	1,260	1,309
37	27,75	24,0322	29,33	29,10	28,65	27,05	1,211	1,231	1,260	1,310
38	28,50	24,6817	30,08	29,85	29,40	27,79	1,211	1,231	1,261	1,310
39	29,25	25,3312	30,83	30,61	30,15	28,54	1,211	1,231	1,261	1,311
40	30,00	25,9808	31,58	31,36	30,90	29,29	1,211	1,231	1,261	1,311
41	30,75	26,6303	32,33	32,11	31,65	30,04	1,211	1,232	1,262	1,312
42	31,50	27,2798	33,08	32,86	32,40	30,79	1,212	1,232	1,262	1,312
43	32,25	27,9293	33,83	33,61	33,15	31,54	1,212	1,232	1,262	1,313
44	33,00	28,5788	34,58	34,36	33,90	32,29	1,212	1,232	1,263	1,313
45	33,75	29,2284	35,34	35,11	34,65	33,04	1,212	1,232	1,263	1,314
46	34,50	29,8779	36,09	35,86	35,40	33,79	1,212	1,232	1,263	1,314
47	35,25	30,5274	36,84	36,61	36,15	34,54	1,212	1,233	1,263	1,315
48	36,00	31,1769	37,59	37,36	36,90	35,28	1,212	1,233	1,264	1,315
49	36,75	31,8264	38,34	38,11	37,65	36,03	1,212	1,233	1,264	1,316
50	37,50	32,4760	39,09	38,86	38,40	36,78	1,212	1,233	1,264	1,316
51	38,25	33,1255	39,84	39,61	39,15	37,53	1,213	1,233	1,265	1,316
52	39,00	33,7750	40,59	40,37	39,90	38,28	1,213	1,234	1,265	1,317
53	39,75	34,4245	41,34	41,12	40,65	39,03	1,213	1,234	1,265	1,317
54	40,50	35,0740	42,09	41,87	41,40	39,78	1,213	1,234	1,265	1,318
55	41,25	35,7235	42,84	42,62	42,15	40,53	1,213	1,234	1,266	1,318
56	42,00	36,3731	43,59	43,37	42,90	41,28	1,213	1,234	1,266	1,318
57	42,75	37,0226	44,34	44,12	43,65	42,03	1,213	1,234	1,266	1,319
58	43,50	37,6721	45,09	44,87	44,40	42,78	1,213	1,235	1,266	1,319
59	44,25	38,3216	45,85	45,62	45,15	43,53	1,213	1,235	1,267	1,320
60	45,00	38,9711	46,60	46,37	45,90	44,28	1,214	1,235	1,267	1,320
61	45,75	39,6207	47,35	47,12	46,65	45,03	1,214	1,235	1,267	1,320
62	46,50	40,2702	48,10	47,87	47,40	45,78	1,214	1,235	1,267	1,321
63	47,25	40,9197	48,85	48,62	48,15	46,53	1,214	1,235	1,267	1,321
64	48,00	41,5692	49,60	49,37	48,90	47,28	1,214	1,235	1,268	1,322
65	48,75	42,2187	50,35	50,12	49,65	48,03	1,214	1,236	1,268	1,322
66	49,50	42,8683	51,10	50,87	50,40	48,77	1,214	1,236	1,268	1,322
67	50,25	43,5178	51,85	51,63	51,15	49,52	1,214	1,236	1,268	1,323
68	51,00	44,1673	52,60	52,38	51,90	50,27	1,214	1,236	1,269	1,323
69	51,75	44,8168	53,35	53,13	52,65	51,02	1,214	1,236	1,269	1,323
70	52,50	45,4663	54,10	53,88	53,40	51,77	1,214	1,236	1,269	1,324
71	53,25	46,1159	54,85	54,63	54,15	52,52	1,215	1,236	1,269	1,324
72	54,00	46,7654	55,60	55,38	54,90	53,27	1,215	1,237	1,270	1,324
73	54,75	47,4149	56,35	56,13	55,65	54,02	1,215	1,237	1,270	1,325
74	55,50	48,0644	57,10	56,88	56,40	54,77	1,215	1,237	1,270	1,325
75	56,25	48,7139	57,86	57,63	57,15	55,52	1,215	1,237	1,270	1,325
76	57,00	49,3634	58,61	58,38	57,90	56,27	1,215	1,237	1,270	1,326
77	57,75	50,0130	59,36	59,13	58,65	57,02	1,215	1,237	1,271	1,326
78	58,50	50,6625	60,11	59,88	59,40	57,77	1,215	1,237	1,271	1,326
79	59,25	51,3120	60,86	60,63	60,15	58,52	1,215	1,238	1,271	1,327
80	60,00	51,9615	61,61	61,38	60,90	59,27	1,215	1,238	1,271	1,327
81	60,75	52,6110	62,36	62,13	61,65	60,02	1,215	1,238	1,271	1,327
82	61,50	53,2606	63,11	62,88	62,40	60,77	1,215	1,238	1,272	1,328
83	62,25	53,9101	63,86	63,63	63,15	61,52	1,216	1,238	1,272	1,328
84	63,00	54,5596	64,61	64,39	63,90	62,27	1,216	1,238	1,272	1,328
85	63,75	55,2091	65,36	65,14	64,65	63,02	1,216	1,238	1,272	1,329
86	64,50	55,8586	66,11	65,89	65,40	63,77	1,216	1,238	1,272	1,329
87	65,25	56,5082	66,86	66,64	66,15	64,52	1,216	1,239	1,273	1,329
88	66,00	57,1577	67,61	67,39	66,90	65,27	1,216	1,239	1,273	1,330
89	66,75	57,8072	68,36	68,14	67,65	66,02	1,216	1,239	1,273	1,330
90	67,50	58,4567	69,11	68,89	68,40	66,77	1,216	1,239	1,273	1,330
91	68,25	59,1062	69,86	69,64	69,15	67,52	1,216	1,239	1,273	1,331
92	69,00	59,7558	70,61	70,39	69,90	68,27	1,216	1,239	1,274	1,331
93	69,75	60,4053	71,37	71,14	70,65	69,02	1,216	1,239	1,274	1,331
94	70,50	61,0548	72,12	71,89	71,40	69,77	1,216	1,239	1,274	1,331
95	71,25	61,7043	72,87	72,64	72,15	70,52	1,216	1,239	1,274	1,332
96	72,00	62,3538	73,62	73,39	72,90	71,27	1,216	1,240	1,274	1,332
97	72,75	63,0033	74,37	74,14	73,65	72,02	1,217	1,240	1,274	1,332
98	73,50	63,6529	75,12	74,89	74,40	72,77	1,217	1,240	1,275	1,333
99	74,25	64,3024	75,87	75,64	75,15	73,52	1,217	1,240	1,275	1,333
100	75,00	64,9519	76,62	76,39	75,90	74,27	1,217	1,240	1,275	1,333

Table 6 — Geometry external spline, $\alpha = 30°$, $m = 0{,}75$, flat and fillet root, $S_{v\,max} = 1{,}178$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$ Fillet root	$D_{ie\,min}$ Flat	S_{min}			
							4h	5h	6h	7h
6	4,50	3,8971	5,25	3,92	2,97	3,19	1,151	1,136	1,112	1,072
7	5,25	4,5466	6,00	4,62	3,71	3,94	1,151	1,135	1,111	1,070
8	6,00	5,1962	6,75	5,33	4,46	4,69	1,151	1,134	1,110	1,069
9	6,75	5,8457	7,50	6,05	5,21	5,43	1,150	1,134	1,109	1,067
10	7,50	6,4952	8,25	6,78	5,96	6,18	1,150	1,133	1,108	1,066
11	8,25	7,1447	9,00	7,51	6,70	6,93	1,150	1,133	1,107	1,065
12	9,00	7,7942	9,75	8,25	7,45	7,68	1,149	1,132	1,107	1,064
13	9,75	8,4437	10,50	8,99	8,20	8,43	1,149	1,132	1,106	1,063
14	10,50	9,0933	11,25	9,73	8,95	9,17	1,149	1,132	1,105	1,062
15	11,25	9,7428	12,00	10,47	9,70	9,92	1,149	1,131	1,105	1,061
16	12,00	10,3923	12,75	11,21	10,45	10,67	1,149	1,131	1,104	1,060
17	12,75	11,0418	13,50	11,95	11,19	11,42	1,148	1,130	1,104	1,059
18	13,50	11,6913	14,25	12,70	11,94	12,17	1,148	1,130	1,103	1,058
19	14,25	12,3409	15,00	13,44	12,69	12,92	1,148	1,130	1,103	1,058
20	15,00	12,9904	15,75	14,19	13,44	13,67	1,148	1,130	1,102	1,057
21	15,75	13,6399	16,50	14,93	14,19	14,41	1,148	1,129	1,102	1,056
22	16,50	14,2894	17,25	15,68	14,94	15,16	1,147	1,129	1,101	1,055
23	17,25	14,9389	18,00	16,42	15,69	15,91	1,147	1,129	1,101	1,055
24	18,00	15,5885	18,75	17,17	16,44	16,66	1,147	1,128	1,100	1,054
25	18,75	16,2380	19,50	17,92	17,18	17,41	1,147	1,128	1,100	1,053
26	19,50	16,8875	20,25	18,67	17,93	18,16	1,147	1,128	1,100	1,053
27	20,25	17,5370	21,00	19,41	18,68	18,91	1,146	1,128	1,099	1,052
28	21,00	18,1865	21,75	20,16	19,43	19,66	1,146	1,127	1,099	1,051
29	21,75	18,8361	22,50	20,91	20,18	20,40	1,146	1,127	1,098	1,051
30	22,50	19,4856	23,25	21,66	20,93	21,15	1,146	1,127	1,098	1,050
31	23,25	20,1351	24,00	22,40	21,68	21,90	1,146	1,127	1,098	1,049
32	24,00	20,7846	24,75	23,15	22,43	22,65	1,146	1,126	1,097	1,049
33	24,75	21,4341	25,50	23,90	23,18	23,40	1,146	1,126	1,097	1,048
34	25,50	22,0836	26,25	24,65	23,92	24,15	1,145	1,126	1,097	1,048
35	26,25	22,7332	27,00	25,40	24,67	24,90	1,145	1,126	1,096	1,047
36	27,00	23,3827	27,75	26,15	25,42	25,65	1,145	1,125	1,096	1,047
37	27,75	24,0322	28,50	26,90	26,17	26,40	1,145	1,125	1,096	1,046
38	28,50	24,6817	29,25	27,64	26,92	27,15	1,145	1,125	1,095	1,046
39	29,25	25,3312	30,00	28,39	27,67	27,89	1,145	1,125	1,095	1,045
40	30,00	25,9808	30,75	29,14	28,42	28,64	1,145	1,125	1,095	1,045
41	30,75	26,6303	31,50	29,89	29,17	29,39	1,145	1,124	1,094	1,044
42	31,50	27,2798	32,25	30,64	29,92	30,14	1,144	1,124	1,094	1,044
43	32,25	27,9293	33,00	31,39	30,67	30,89	1,144	1,124	1,094	1,043
44	33,00	28,5788	33,75	32,14	31,42	31,64	1,144	1,124	1,093	1,043
45	33,75	29,2284	34,50	32,89	32,16	32,39	1,144	1,124	1,093	1,042
46	34,50	29,8779	35,25	33,64	32,91	33,14	1,144	1,124	1,093	1,042
47	35,25	30,5274	36,00	34,39	33,66	33,89	1,144	1,123	1,093	1,041
48	36,00	31,1769	36,75	35,13	34,41	34,64	1,144	1,123	1,092	1,041
49	36,75	31,8264	37,50	35,88	35,16	35,39	1,144	1,123	1,092	1,040
50	37,50	32,4760	38,25	36,63	35,91	36,14	1,144	1,123	1,092	1,040
51	38,25	33,1255	39,00	37,38	36,66	36,89	1,143	1,123	1,091	1,040
52	39,00	33,7750	39,75	38,13	37,41	37,63	1,143	1,122	1,091	1,039
53	39,75	34,4245	40,50	38,88	38,16	38,38	1,143	1,122	1,091	1,039
54	40,50	35,0740	41,25	39,63	38,91	39,13	1,143	1,122	1,091	1,038
55	41,25	35,7235	42,00	40,38	39,66	39,88	1,143	1,122	1,090	1,038
56	42,00	36,3731	42,75	41,13	40,41	40,63	1,143	1,122	1,090	1,038
57	42,75	37,0226	43,50	41,88	41,16	41,38	1,143	1,122	1,090	1,037
58	43,50	37,6721	44,25	42,63	41,91	42,13	1,143	1,121	1,090	1,037
59	44,25	38,3216	45,00	43,38	42,65	42,88	1,143	1,121	1,089	1,036
60	45,00	38,9711	45,75	44,13	43,40	43,63	1,142	1,121	1,089	1,036
61	45,75	39,6207	46,50	44,88	44,15	44,38	1,142	1,121	1,089	1,036
62	46,50	40,2702	47,25	45,63	44,90	45,13	1,142	1,121	1,089	1,035
63	47,25	40,9197	48,00	46,38	45,65	45,88	1,142	1,121	1,089	1,035
64	48,00	41,5692	48,75	47,13	46,40	46,63	1,142	1,121	1,088	1,034
65	48,75	42,2187	49,50	47,88	47,15	47,38	1,142	1,120	1,088	1,034
66	49,50	42,8683	50,25	48,62	47,90	48,13	1,142	1,120	1,088	1,034
67	50,25	43,5178	51,00	49,37	48,65	48,87	1,142	1,120	1,088	1,033
68	51,00	44,1673	51,75	50,12	49,40	49,62	1,142	1,120	1,087	1,033
69	51,75	44,8168	52,50	50,87	50,15	50,37	1,142	1,120	1,087	1,033
70	52,50	45,4663	53,25	51,62	50,90	51,12	1,142	1,120	1,087	1,032
71	53,25	46,1159	54,00	52,37	51,65	51,87	1,141	1,120	1,087	1,032
72	54,00	46,7654	54,75	53,12	52,40	52,62	1,141	1,119	1,086	1,032
73	54,75	47,4149	55,50	53,87	53,15	53,37	1,141	1,119	1,086	1,031
74	55,50	48,0644	56,25	54,62	53,90	54,12	1,141	1,119	1,086	1,031
75	56,25	48,7139	57,00	55,37	54,64	54,87	1,141	1,119	1,086	1,031
76	57,00	49,3634	57,75	56,12	55,39	55,62	1,141	1,119	1,086	1,030
77	57,75	50,0130	58,50	56,87	56,14	56,37	1,141	1,119	1,085	1,030
78	58,50	50,6625	59,25	57,62	56,89	57,12	1,141	1,119	1,085	1,030
79	59,25	51,3120	60,00	58,37	57,64	57,87	1,141	1,118	1,085	1,029
80	60,00	51,9615	60,75	59,12	58,39	58,62	1,141	1,118	1,085	1,029
81	60,75	52,6110	61,50	59,87	59,14	59,37	1,141	1,118	1,085	1,029
82	61,50	53,2606	62,25	60,62	59,89	60,12	1,141	1,118	1,084	1,028
83	62,25	53,9101	63,00	61,37	60,64	60,87	1,140	1,118	1,084	1,028
84	63,00	54,5596	63,75	62,12	61,39	61,61	1,140	1,118	1,084	1,028
85	63,75	55,2091	64,50	62,87	62,14	62,36	1,140	1,118	1,084	1,027
86	64,50	55,8586	65,25	63,62	62,89	63,11	1,140	1,118	1,084	1,027
87	65,25	56,5082	66,00	64,37	63,64	63,86	1,140	1,117	1,083	1,027
88	66,00	57,1577	66,75	65,12	64,39	64,61	1,140	1,117	1,083	1,026
89	66,75	57,8072	67,50	65,87	65,14	65,36	1,140	1,117	1,083	1,026
90	67,50	58,4567	68,25	66,62	65,89	66,11	1,140	1,117	1,083	1,026
91	68,25	59,1062	69,00	67,37	66,64	66,86	1,140	1,117	1,083	1,025
92	69,00	59,7558	69,75	68,12	67,39	67,61	1,140	1,117	1,082	1,025
93	69,75	60,4053	70,50	68,87	68,13	68,36	1,140	1,117	1,082	1,025
94	70,50	61,0548	71,25	69,62	68,88	69,11	1,140	1,117	1,082	1,025
95	71,25	61,7043	72,00	70,37	69,63	69,86	1,140	1,117	1,082	1,024
96	72,00	62,3538	72,75	71,12	70,38	70,61	1,140	1,116	1,082	1,024
97	72,75	63,0033	73,50	71,87	71,13	71,36	1,139	1,116	1,082	1,024
98	73,50	63,6529	74,25	72,62	71,88	72,11	1,139	1,116	1,081	1,023
99	74,25	64,3024	75,00	73,37	72,63	72,86	1,139	1,116	1,081	1,023
100	75,00	64,9519	75,75	74,12	73,38	73,61	1,139	1,116	1,081	1,023

Table 7 — Inspection dimensions internal spline, $\alpha = 30°$, $m = 0{,}75$, flat or fillet root, $E_{v\,min} = 1{,}178$

z	D_{Ri}	Measurement over balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—	—
8	1,25	4,224	4,267	4,239	4,308	4,260	4,366	4,292	4,455	2,097
9	1,25	4,897	4,936	4,910	4,973	4,929	5,028	4,958	5,114	2,001
10	1,32	5,475	5,521	5,491	5,566	5,514	5,630	5,549	5,727	2,232
11	1,32	6,171	6,212	6,185	6,254	6,206	6,313	6,238	6,406	2,129
12	1,32	7,013	7,053	7,027	7,093	7,047	7,151	7,078	7,243	2,092
13	1,32	7,708	7,746	7,722	7,784	7,740	7,841	7,770	7,930	2,033
14	1,32	8,534	8,570	8,547	8,608	8,565	8,664	8,595	8,753	2,013
15	1,32	9,232	9,268	9,245	9,305	9,263	9,360	9,292	9,448	1,974
16	1,32	10,046	10,082	10,059	10,119	10,077	10,173	10,106	10,261	1,962
17	1,32	10,750	10,784	10,762	10,821	10,780	10,874	10,808	10,962	1,935
18	1,32	11,555	11,590	11,568	11,626	11,586	11,680	11,614	11,768	1,927
19	1,32	12,263	12,296	12,275	12,332	12,293	12,386	12,321	12,473	1,906
20	1,32	13,062	13,096	13,075	13,132	13,093	13,186	13,121	13,273	1,901
21	1,32	13,773	13,806	13,785	13,842	13,803	13,895	13,831	13,982	1,885
22	1,32	14,568	14,601	14,580	14,637	14,598	14,690	14,626	14,778	1,881
23	1,32	15,281	15,314	15,294	15,350	15,311	15,403	15,340	15,490	1,868
24	1,32	16,072	16,105	16,085	16,141	16,102	16,194	16,131	16,282	1,865
25	1,32	16,788	16,821	16,801	16,856	16,818	16,910	16,847	16,997	1,854
26	1,32	17,576	17,608	17,588	17,644	17,606	17,697	17,635	17,785	1,852
27	1,32	18,294	18,326	18,307	18,362	18,325	18,416	18,353	18,503	1,843
28	1,32	19,079	19,111	19,091	19,147	19,109	19,200	19,138	19,289	1,841
29	1,40	19,540	19,574	19,554	19,611	19,572	19,666	19,602	19,757	1,888
30	1,40	20,323	20,356	20,337	20,394	20,355	20,449	20,385	20,540	1,884
31	1,40	21,046	21,079	21,060	21,116	21,078	21,172	21,108	21,263	1,876
32	1,40	21,827	21,860	21,840	21,897	21,859	21,953	21,889	22,044	1,872
33	1,40	22,552	22,584	22,565	22,621	22,584	22,677	22,614	22,768	1,865
34	1,40	23,330	23,363	23,344	23,400	23,363	23,456	23,393	23,547	1,862
35	1,40	24,056	24,089	24,070	24,126	24,089	24,181	24,119	24,273	1,855
36	1,40	24,833	24,866	24,847	24,903	24,866	24,959	24,896	25,050	1,853
37	1,40	25,560	25,593	25,574	25,630	25,593	25,686	25,623	25,777	1,847
38	1,40	26,336	26,368	26,349	26,406	26,369	26,461	26,399	26,553	1,845
39	1,40	27,064	27,096	27,078	27,134	27,097	27,189	27,127	27,282	1,840
40	1,40	27,838	27,870	27,852	27,908	27,871	27,964	27,902	28,056	1,838
41	1,40	28,567	28,599	28,581	28,637	28,600	28,693	28,631	28,785	1,833
42	1,40	29,340	29,372	29,354	29,410	29,374	29,466	29,404	29,559	1,832
43	1,40	30,070	30,102	30,084	30,140	30,104	30,196	30,135	30,289	1,828
44	1,40	30,842	30,874	30,856	30,912	30,876	30,968	30,907	31,061	1,826
45	1,40	31,573	31,605	31,587	31,643	31,607	31,699	31,638	31,792	1,823
46	1,40	32,344	32,376	32,358	32,414	32,378	32,470	32,409	32,564	1,821
47	1,40	33,076	33,107	33,090	33,145	33,110	33,202	33,141	33,295	1,818
48	1,40	33,846	33,877	33,860	33,915	33,880	33,972	33,911	34,066	1,817
49	1,40	34,578	34,609	34,592	34,647	34,612	34,704	34,644	34,798	1,814
50	1,40	35,347	35,379	35,361	35,417	35,382	35,474	35,413	35,568	1,813
51	1,40	36,080	36,111	36,094	36,150	36,115	36,207	36,146	36,301	1,810
52	1,40	36,849	36,880	36,863	36,918	36,883	36,975	36,915	37,070	1,809
53	1,40	37,582	37,613	37,597	37,652	37,617	37,709	37,649	37,804	1,806
54	1,40	38,350	38,381	38,364	38,420	38,385	38,477	38,417	38,572	1,806
55	1,40	39,084	39,115	39,099	39,154	39,119	39,211	39,151	39,306	1,803
56	1,40	39,851	39,882	39,866	39,921	39,886	39,978	39,919	40,074	1,802
57	1,40	40,586	40,617	40,600	40,655	40,621	40,713	40,653	40,809	1,800
58	1,40	41,352	41,383	41,367	41,422	41,388	41,480	41,420	41,575	1,800
59	1,40	42,087	42,118	42,102	42,157	42,123	42,215	42,156	42,311	1,798
60	1,40	42,853	42,884	42,868	42,923	42,889	42,981	42,922	43,077	1,797
61	1,40	43,589	43,620	43,604	43,659	43,625	43,717	43,658	43,813	1,795
62	1,40	44,354	44,385	44,369	44,424	44,390	44,482	44,423	44,579	1,794
63	1,40	45,090	45,121	45,106	45,160	45,127	45,219	45,160	45,315	1,793
64	1,40	45,855	45,886	45,871	45,925	45,892	45,984	45,925	46,081	1,792
65	1,40	46,592	46,623	46,607	46,662	46,628	46,720	46,662	46,817	1,791
66	1,40	47,356	47,387	47,372	47,426	47,393	47,485	47,426	47,582	1,790
67	1,40	48,093	48,124	48,108	48,163	48,130	48,222	48,163	48,319	1,789
68	1,40	48,857	48,888	48,873	48,927	48,894	48,986	48,928	49,084	1,788
69	1,40	49,594	49,625	49,610	49,665	49,631	49,723	49,665	49,821	1,787
70	1,40	50,358	50,389	50,374	50,428	50,395	50,487	50,429	50,585	1,786
71	1,40	51,096	51,126	51,111	51,166	51,133	51,225	51,167	51,323	1,785
72	1,40	51,859	51,890	51,875	51,929	51,896	51,988	51,930	52,087	1,784
73	1,40	52,597	52,627	52,612	52,667	52,634	52,726	52,669	52,825	1,783
74	1,40	53,360	53,390	53,375	53,430	53,397	53,489	53,432	53,588	1,783
75	1,40	54,098	54,128	54,114	54,168	54,136	54,228	54,170	54,327	1,782
76	1,40	54,860	54,891	54,876	54,931	54,898	54,991	54,933	55,090	1,781
77	1,40	55,599	55,629	55,615	55,669	55,637	55,729	55,672	55,828	1,780
78	1,40	56,361	56,392	56,377	56,432	56,399	56,492	56,434	56,591	1,780
79	1,40	57,100	57,130	57,116	57,170	57,138	57,230	57,173	57,330	1,779
80	1,40	57,862	57,892	57,878	57,932	57,900	57,993	57,935	58,092	1,778
81	1,40	58,601	58,631	58,617	58,672	58,640	58,732	58,675	58,832	1,777
82	1,40	59,363	59,393	59,379	59,433	59,401	59,493	59,437	59,594	1,777
83	1,40	60,102	60,132	60,118	60,173	60,141	60,233	60,176	60,333	1,776
84	1,40	60,863	60,893	60,880	60,934	60,902	60,994	60,938	61,095	1,776
85	1,40	61,603	61,633	61,619	61,673	61,642	61,734	61,678	61,835	1,775
86	1,40	62,364	62,394	62,380	62,435	62,403	62,495	62,439	62,596	1,775
87	1,40	63,104	63,134	63,120	63,174	63,143	63,235	63,179	63,336	1,774
88	1,40	63,865	63,895	63,881	63,935	63,904	63,996	63,940	64,097	1,774
89	1,40	64,605	64,635	64,621	64,675	64,644	64,736	64,680	64,838	1,773
90	1,40	65,365	65,395	65,382	65,436	65,405	65,497	65,441	65,599	1,772
91	1,40	66,105	66,135	66,122	66,176	66,145	66,237	66,181	66,339	1,772
92	1,40	66,866	66,896	66,882	66,937	66,906	66,998	66,942	67,100	1,771
93	1,40	67,606	67,636	67,623	67,677	67,646	67,738	67,683	67,840	1,771
94	1,40	68,366	68,396	68,383	68,437	68,407	68,499	68,443	68,601	1,770
95	1,40	69,107	69,137	69,124	69,178	69,147	69,240	69,184	69,342	1,770
96	1,40	69,867	69,897	69,884	69,938	69,907	70,000	69,944	70,102	1,770
97	1,40	70,608	70,637	70,625	70,679	70,648	70,741	70,685	70,843	1,769
98	1,40	71,367	71,397	71,384	71,439	71,408	71,500	71,445	71,603	1,769
99	1,40	72,108	72,138	72,125	72,180	72,149	72,242	72,186	72,344	1,768
100	1,40	72,868	72,898	72,885	72,939	72,909	73,001	72,946	73,104	1,768

Table 8 — Inspection dimensions external spline, $\alpha = 30°$, $m = 0{,}75$, flat or fillet root, $S_{v\,max} = 1{,}178$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	1,70	7,253	7,273	7,234	7,266	7,205	7,257	7,156	7,242	1,237
7	1,60	7,622	7,642	7,602	7,636	7,572	7,626	7,521	7,611	1,274
8	1,60	8,541	8,562	8,519	8,555	8,487	8,545	8,433	8,528	1,334
9	1,60	9,185	9,206	9,163	9,199	9,130	9,189	9,075	9,172	1,337
10	1,60	10,062	10,084	10,039	10,076	10,005	10,066	9,947	10,048	1,379
11	1,50	10,468	10,490	10,444	10,483	10,408	10,471	10,348	10,453	1,426
12	1,50	11,316	11,339	11,291	11,331	11,254	11,319	11,192	11,300	1,457
13	1,50	11,993	12,017	11,969	12,009	11,931	11,997	11,869	11,978	1,461
14	1,50	12,825	12,849	12,799	12,840	12,761	12,828	12,697	12,808	1,484
15	1,50	13,512	13,536	13,487	13,528	13,448	13,516	13,383	13,496	1,488
16	1,50	14,332	14,356	14,306	14,348	14,266	14,335	14,200	14,315	1,507
17	1,50	15,027	15,052	15,001	15,043	14,961	15,030	14,894	15,010	1,510
18	1,50	15,838	15,863	15,811	15,854	15,771	15,841	15,702	15,820	1,525
19	1,50	16,539	16,564	16,512	16,555	16,471	16,542	16,402	16,521	1,528
20	1,50	17,343	17,368	17,315	17,359	17,274	17,345	17,204	17,324	1,541
21	1,50	18,049	18,074	18,021	18,065	17,979	18,051	17,909	18,029	1,544
22	1,50	18,847	18,873	18,819	18,863	18,776	18,849	18,705	18,827	1,555
23	1,50	19,557	19,582	19,528	19,573	19,485	19,559	19,414	19,536	1,557
24	1,50	20,351	20,376	20,322	20,367	20,279	20,352	20,206	20,330	1,567
25	1,50	21,063	21,089	21,034	21,079	20,991	21,065	20,918	21,042	1,569
26	1,50	21,854	21,880	21,824	21,870	21,780	21,855	21,706	21,832	1,577
27	1,50	22,569	22,595	22,540	22,585	22,495	22,571	22,421	22,547	1,579
28	1,50	23,356	23,382	23,326	23,372	23,282	23,357	23,207	23,334	1,586
29	1,50	24,074	24,101	24,044	24,090	23,999	24,075	23,924	24,051	1,588
30	1,50	24,858	24,885	24,828	24,874	24,783	24,859	24,707	24,835	1,595
31	1,50	25,578	25,605	25,548	25,594	25,502	25,579	25,426	25,555	1,596
32	1,50	26,360	26,387	26,330	26,376	26,284	26,361	26,206	26,336	1,602
33	1,40	26,798	26,825	26,767	26,814	26,720	26,799	26,641	26,773	1,633
34	1,40	27,577	27,605	27,546	27,594	27,498	27,578	27,419	27,552	1,638
35	1,40	28,301	28,328	28,269	28,317	28,221	28,301	28,141	28,275	1,639
36	1,40	29,078	29,106	29,046	29,094	28,998	29,078	28,918	29,052	1,643
37	1,40	29,803	29,831	29,771	29,819	29,723	29,803	29,642	29,777	1,643
38	1,40	30,579	30,607	30,547	30,595	30,498	30,578	30,417	30,552	1,647
39	1,40	31,305	31,333	31,273	31,321	31,224	31,304	31,142	31,278	1,648
40	1,40	32,080	32,107	32,047	32,095	31,998	32,079	31,916	32,052	1,651
41	1,40	32,807	32,835	32,774	32,823	32,725	32,806	32,642	32,779	1,652
42	1,40	33,580	33,608	33,547	33,596	33,498	33,579	33,415	33,552	1,655
43	1,40	34,308	34,336	34,275	34,324	34,226	34,307	34,142	34,280	1,655
44	1,40	35,081	35,108	35,047	35,096	34,997	35,079	34,914	35,052	1,658
45	1,40	35,810	35,838	35,777	35,825	35,726	35,808	35,642	35,781	1,659
46	1,40	36,581	36,609	36,548	36,597	36,497	36,579	36,412	36,552	1,661
47	1,40	37,311	37,339	37,278	37,327	37,227	37,309	37,142	37,281	1,662
48	1,40	38,081	38,109	38,048	38,097	37,997	38,079	37,911	38,051	1,664
49	1,40	38,812	38,840	38,778	38,828	38,727	38,810	38,642	38,782	1,665
50	1,40	39,582	39,610	39,548	39,597	39,496	39,579	39,410	39,551	1,667
51	1,40	40,313	40,341	40,279	40,329	40,228	40,311	40,141	40,282	1,667
52	1,40	41,082	41,110	41,048	41,097	40,996	41,079	40,909	41,050	1,669
53	1,40	41,814	41,842	41,780	41,830	41,728	41,811	41,641	41,783	1,670
54	1,40	42,582	42,610	42,548	42,597	42,496	42,579	42,408	42,550	1,671
55	1,40	43,315	43,343	43,281	43,330	43,228	43,312	43,141	43,283	1,672
56	1,40	44,083	44,111	44,048	44,097	43,995	44,079	43,907	44,050	1,674
57	1,40	44,816	44,844	44,781	44,831	44,728	44,812	44,640	44,783	1,674
58	1,40	45,583	45,611	45,548	45,598	45,495	45,579	45,406	45,549	1,676
59	1,40	46,317	46,345	46,282	46,332	46,229	46,313	46,140	46,283	1,676
60	1,40	47,083	47,111	47,047	47,098	46,994	47,079	46,905	47,049	1,677
61	1,40	47,818	47,846	47,782	47,832	47,729	47,813	47,639	47,783	1,678
62	1,40	48,583	48,611	48,547	48,598	48,494	48,578	48,404	48,548	1,679
63	1,40	49,318	49,346	49,282	49,333	49,229	49,313	49,139	49,283	1,679
64	1,40	50,083	50,111	50,047	50,098	49,993	50,078	49,903	50,048	1,681
65	1,40	50,819	50,847	50,783	50,833	50,729	50,814	50,638	50,783	1,681
66	1,40	51,583	51,611	51,547	51,597	51,493	51,578	51,402	51,547	1,682
67	1,40	52,319	52,347	52,283	52,333	52,229	52,314	52,138	52,283	1,683
68	1,40	53,083	53,112	53,047	53,097	52,992	53,078	52,901	53,047	1,684
69	1,40	53,820	53,848	53,783	53,834	53,729	53,814	53,637	53,783	1,684
70	1,40	54,583	54,612	54,547	54,597	54,492	54,577	54,400	54,546	1,685
71	1,40	55,320	55,348	55,284	55,334	55,229	55,314	55,136	55,283	1,685
72	1,40	56,083	56,112	56,047	56,097	55,991	56,077	55,899	56,045	1,687
73	1,40	56,821	56,849	56,784	56,834	56,728	56,814	56,636	56,782	1,687
74	1,40	57,583	57,612	57,547	57,597	57,491	57,577	57,398	57,545	1,688
75	1,40	58,321	58,349	58,284	58,335	58,228	58,314	58,135	58,282	1,688
76	1,40	59,083	59,112	59,046	59,097	58,991	59,076	58,897	59,044	1,689
77	1,40	59,821	59,850	59,784	59,835	59,728	59,814	59,635	59,782	1,689
78	1,40	60,583	60,612	60,546	60,597	60,490	60,576	60,396	60,544	1,690
79	1,40	61,322	61,350	61,284	61,335	61,228	61,314	61,134	61,282	1,690
80	1,40	62,083	62,112	62,046	62,097	61,990	62,076	61,895	62,043	1,691
81	1,40	62,822	62,850	62,784	62,835	62,728	62,814	62,633	62,781	1,691
82	1,40	63,583	63,612	63,546	63,597	63,489	63,576	63,394	63,543	1,692
83	1,40	64,322	64,350	64,284	64,335	64,228	64,314	64,133	64,281	1,692
84	1,40	65,083	65,112	65,046	65,097	64,989	65,075	64,893	65,042	1,693
85	1,40	65,822	65,851	65,784	65,835	65,727	65,814	65,632	65,781	1,693
86	1,40	66,583	66,612	66,545	66,596	66,488	66,575	66,392	66,541	1,694
87	1,40	67,323	67,351	67,285	67,336	67,227	67,314	67,131	67,280	1,694
88	1,40	68,083	68,112	68,045	68,096	67,988	68,075	67,891	68,041	1,695
89	1,40	68,823	68,851	68,785	68,836	68,727	68,814	68,631	68,780	1,695
90	1,40	69,583	69,612	69,545	69,596	69,487	69,574	69,391	69,540	1,696
91	1,40	70,323	70,351	70,285	70,336	70,227	70,314	70,130	70,280	1,696
92	1,40	71,083	71,112	71,045	71,096	70,987	71,074	70,890	71,040	1,697
93	1,40	71,823	71,851	71,785	71,836	71,726	71,814	71,629	71,779	1,697
94	1,40	72,583	72,611	72,545	72,596	72,486	72,573	72,389	72,539	1,697
95	1,40	73,323	73,352	73,285	73,336	73,226	73,313	73,128	73,279	1,698
96	1,40	74,083	74,111	74,044	74,095	73,986	74,073	73,888	74,038	1,698
97	1,40	74,824	74,852	74,785	74,836	74,726	74,813	74,628	74,778	1,698
98	1,40	75,583	75,611	75,544	75,595	75,485	75,573	75,387	75,538	1,699
99	1,40	76,324	76,352	76,285	76,336	76,226	76,313	76,127	76,278	1,699
100	1,40	77,083	77,111	77,044	77,095	76,985	77,072	76,886	77,037	1,700

5.3 30° pressure angle, module 1

Table 9 — Geometry internal spline, $\alpha = 30°$, $m = 1$, flat or fillet root, $E_{v\,min} = 1{,}571$

z	D	D_b	$D_{ei\,max}$ Fillet root	$D_{ei\,max}$ Flat	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
							4H	5H	6H	7H
6	6,00	5,1962	8,00	7,70	7,20	5,43	1,600	1,618	1,644	1,688
7	7,00	6,0622	9,01	8,71	8,20	6,36	1,601	1,618	1,645	1,690
8	8,00	6,9282	10,01	9,71	9,20	7,31	1,601	1,619	1,646	1,691
9	9,00	7,7942	11,01	10,71	10,20	8,27	1,601	1,620	1,647	1,693
10	10,00	8,6603	12,01	11,71	11,20	9,24	1,602	1,620	1,648	1,694
11	11,00	9,5263	13,02	12,72	12,20	10,22	1,602	1,621	1,649	1,695
12	12,00	10,3923	14,02	13,72	13,20	11,20	1,602	1,621	1,650	1,697
13	13,00	11,2583	15,02	14,72	14,20	12,18	1,603	1,622	1,650	1,698
14	14,00	12,1244	16,02	15,72	15,20	13,17	1,603	1,622	1,651	1,699
15	15,00	12,9904	17,02	16,72	16,20	14,16	1,603	1,623	1,652	1,700
16	16,00	13,8564	18,03	17,73	17,20	15,15	1,603	1,623	1,652	1,701
17	17,00	14,7224	19,03	18,73	18,20	16,14	1,604	1,623	1,653	1,702
18	18,00	15,5885	20,03	19,73	19,20	17,13	1,604	1,624	1,653	1,703
19	19,00	16,4545	21,03	20,73	20,20	18,12	1,604	1,624	1,654	1,704
20	20,00	17,3205	22,03	21,73	21,20	19,11	1,604	1,624	1,655	1,705
21	21,00	18,1865	23,03	22,73	22,20	20,11	1,605	1,625	1,655	1,705
22	22,00	19,0526	24,03	23,73	23,20	21,10	1,605	1,625	1,656	1,706
23	23,00	19,9186	25,04	24,74	24,20	22,10	1,605	1,625	1,656	1,707
24	24,00	20,7846	26,04	25,74	25,20	23,09	1,605	1,626	1,657	1,708
25	25,00	21,6506	27,04	26,74	26,20	24,09	1,605	1,626	1,657	1,709
26	26,00	22,5167	28,04	27,74	27,20	25,09	1,606	1,626	1,657	1,709
27	27,00	23,3827	29,04	28,74	28,20	26,08	1,606	1,627	1,658	1,710
28	28,00	24,2487	30,04	29,74	29,20	27,08	1,606	1,627	1,658	1,711
29	29,00	25,1147	31,04	30,74	30,20	28,08	1,606	1,627	1,659	1,711
30	30,00	25,9808	32,04	31,74	31,20	29,07	1,606	1,627	1,659	1,712
31	31,00	26,8468	33,05	32,75	32,20	30,07	1,606	1,628	1,660	1,713
32	32,00	27,7128	34,05	33,75	33,20	31,07	1,607	1,628	1,660	1,713
33	33,00	28,5788	35,05	34,75	34,20	32,07	1,607	1,628	1,660	1,714
34	34,00	29,4449	36,05	35,75	35,20	33,07	1,607	1,628	1,661	1,715
35	35,00	30,3109	37,05	36,75	36,20	34,06	1,607	1,629	1,661	1,715
36	36,00	31,1769	38,05	37,75	37,20	35,06	1,607	1,629	1,662	1,716
37	37,00	32,0429	39,05	38,75	38,20	36,06	1,607	1,629	1,662	1,716
38	38,00	32,9090	40,05	39,75	39,20	37,06	1,607	1,629	1,662	1,717
39	39,00	33,7750	41,05	40,75	40,20	38,06	1,608	1,630	1,663	1,718
40	40,00	34,6410	42,05	41,75	41,20	39,06	1,608	1,630	1,663	1,718
41	41,00	35,5070	43,06	42,76	42,20	40,05	1,608	1,630	1,663	1,719
42	42,00	36,3731	44,06	43,76	43,20	41,05	1,608	1,630	1,664	1,719
43	43,00	37,2391	45,06	44,76	44,20	42,05	1,608	1,630	1,664	1,720
44	44,00	38,1051	46,06	45,76	45,20	43,05	1,608	1,631	1,664	1,720
45	45,00	38,9711	47,06	46,76	46,20	44,05	1,608	1,631	1,665	1,721
46	46,00	39,8372	48,06	47,76	47,20	45,05	1,609	1,631	1,665	1,721
47	47,00	40,7032	49,06	48,76	48,20	46,05	1,609	1,631	1,665	1,722
48	48,00	41,5692	50,06	49,76	49,20	47,05	1,609	1,632	1,666	1,722
49	49,00	42,4352	51,06	50,76	50,20	48,05	1,609	1,632	1,666	1,723
50	50,00	43,3013	52,06	51,76	51,20	49,04	1,609	1,632	1,666	1,723
51	51,00	44,1673	53,06	52,76	52,20	50,04	1,609	1,632	1,666	1,724
52	52,00	45,0333	54,07	53,77	53,20	51,04	1,609	1,632	1,667	1,724
53	53,00	45,8993	55,07	54,77	54,20	52,04	1,609	1,632	1,667	1,725
54	54,00	46,7654	56,07	55,77	55,20	53,04	1,610	1,633	1,667	1,725
55	55,00	47,6314	57,07	56,77	56,20	54,04	1,610	1,633	1,668	1,726
56	56,00	48,4974	58,07	57,77	57,20	55,04	1,610	1,633	1,668	1,726
57	57,00	49,3634	59,07	58,77	58,20	56,04	1,610	1,633	1,668	1,727
58	58,00	50,2295	60,07	59,77	59,20	57,04	1,610	1,633	1,668	1,727
59	59,00	51,0955	61,07	60,77	60,20	58,04	1,610	1,634	1,669	1,727
60	60,00	51,9615	62,07	61,77	61,20	59,04	1,610	1,634	1,669	1,728
61	61,00	52,8275	63,07	62,77	62,20	60,04	1,610	1,634	1,669	1,728
62	62,00	53,6936	64,07	63,77	63,20	61,04	1,610	1,634	1,670	1,729
63	63,00	54,5596	65,07	64,77	64,20	62,03	1,611	1,634	1,670	1,729
64	64,00	55,4256	66,07	65,77	65,20	63,03	1,611	1,634	1,670	1,730
65	65,00	56,2917	67,08	66,78	66,20	64,03	1,611	1,635	1,670	1,730
66	66,00	57,1577	68,08	67,78	67,20	65,03	1,611	1,635	1,671	1,730
67	67,00	58,0237	69,08	68,78	68,20	66,03	1,611	1,635	1,671	1,731
68	68,00	58,8897	70,08	69,78	69,20	67,03	1,611	1,635	1,671	1,731
69	69,00	59,7558	71,08	70,78	70,20	68,03	1,611	1,635	1,671	1,732
70	70,00	60,6218	72,08	71,78	71,20	69,03	1,611	1,635	1,672	1,732
71	71,00	61,4878	73,08	72,78	72,20	70,03	1,611	1,636	1,672	1,732
72	72,00	62,3538	74,08	73,78	73,20	71,03	1,611	1,636	1,672	1,733
73	73,00	63,2199	75,08	74,78	74,20	72,03	1,612	1,636	1,672	1,733
74	74,00	64,0859	76,08	75,78	75,20	73,03	1,612	1,636	1,673	1,733
75	75,00	64,9519	77,08	76,78	76,20	74,03	1,612	1,636	1,673	1,734
76	76,00	65,8179	78,08	77,78	77,20	75,03	1,612	1,636	1,673	1,734
77	77,00	66,6840	79,08	78,78	78,20	76,03	1,612	1,636	1,673	1,735
78	78,00	67,5500	80,08	79,78	79,20	77,03	1,612	1,637	1,673	1,735
79	79,00	68,4160	81,08	80,78	80,20	78,03	1,612	1,637	1,674	1,735
80	80,00	69,2820	82,09	81,79	81,20	79,03	1,612	1,637	1,674	1,736
81	81,00	70,1481	83,09	82,79	82,20	80,03	1,612	1,637	1,674	1,736
82	82,00	71,0141	84,09	83,79	83,20	81,03	1,612	1,637	1,674	1,736
83	83,00	71,8801	85,09	84,79	84,20	82,03	1,612	1,637	1,675	1,737
84	84,00	72,7461	86,09	85,79	85,20	83,03	1,613	1,637	1,675	1,737
85	85,00	73,6122	87,09	86,79	86,20	84,03	1,613	1,638	1,675	1,737
86	86,00	74,4782	88,09	87,79	87,20	85,03	1,613	1,638	1,675	1,738
87	87,00	75,3442	89,09	88,79	88,20	86,03	1,613	1,638	1,675	1,738
88	88,00	76,2102	90,09	89,79	89,20	87,02	1,613	1,638	1,676	1,739
89	89,00	77,0763	91,09	90,79	90,20	88,02	1,613	1,638	1,676	1,739
90	90,00	77,9423	92,09	91,79	91,20	89,02	1,613	1,638	1,676	1,739
91	91,00	78,8083	93,09	92,79	92,20	90,02	1,613	1,638	1,676	1,740
92	92,00	79,6743	94,09	93,79	93,20	91,02	1,613	1,639	1,677	1,740
93	93,00	80,5404	95,09	94,79	94,20	92,02	1,613	1,639	1,677	1,740
94	94,00	81,4064	96,09	95,79	95,20	93,02	1,613	1,639	1,677	1,741
95	95,00	82,2724	97,09	96,79	96,20	94,02	1,613	1,639	1,677	1,741
96	96,00	83,1384	98,09	97,79	97,20	95,02	1,614	1,639	1,677	1,741
97	97,00	84,0045	99,10	98,80	98,20	96,02	1,614	1,639	1,678	1,742
98	98,00	84,8705	100,10	99,80	99,20	97,02	1,614	1,639	1,678	1,742
99	99,00	85,7365	101,10	100,80	100,20	98,02	1,614	1,639	1,678	1,742
100	100,00	86,6025	102,10	101,80	101,20	99,02	1,614	1,640	1,678	1,742

Table 10 — Geometry external spline, $\alpha = 30°$, $m = 1$, flat and fillet root, $S_{v\,max} = 1{,}571$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$ Fillet root	$D_{ie\,min}$ Flat	S_{min}			
							4h	5h	6h	7h
6	6,00	5,1962	7,00	5,23	4,00	4,30	1,542	1,524	1,498	1,454
7	7,00	6,0622	8,00	6,16	4,99	5,29	1,541	1,524	1,497	1,452
8	8,00	6,9282	9,00	7,11	5,99	6,29	1,541	1,523	1,496	1,451
9	9,00	7,7942	10,00	8,07	6,99	7,29	1,541	1,522	1,495	1,449
10	10,00	8,6603	11,00	9,04	7,99	8,29	1,540	1,522	1,494	1,448
11	11,00	9,5263	12,00	10,02	8,98	9,28	1,540	1,521	1,493	1,447
12	12,00	10,3923	13,00	11,00	9,98	10,28	1,540	1,521	1,492	1,445
13	13,00	11,2583	14,00	11,98	10,98	11,28	1,539	1,520	1,492	1,444
14	14,00	12,1244	15,00	12,97	11,98	12,28	1,539	1,520	1,491	1,443
15	15,00	12,9904	16,00	13,96	12,98	13,28	1,539	1,519	1,490	1,442
16	16,00	13,8564	17,00	14,95	13,97	14,27	1,539	1,519	1,490	1,441
17	17,00	14,7224	18,00	15,94	14,97	15,27	1,538	1,519	1,489	1,440
18	18,00	15,5885	19,00	16,93	15,97	16,27	1,538	1,518	1,489	1,439
19	19,00	16,4545	20,00	17,92	16,97	17,27	1,538	1,518	1,488	1,438
20	20,00	17,3205	21,00	18,91	17,97	18,27	1,538	1,518	1,487	1,437
21	21,00	18,1865	22,00	19,91	18,97	19,27	1,537	1,517	1,487	1,437
22	22,00	19,0526	23,00	20,90	19,97	20,27	1,537	1,517	1,486	1,436
23	23,00	19,9186	24,00	21,90	20,96	21,26	1,537	1,517	1,486	1,435
24	24,00	20,7846	25,00	22,89	21,96	22,26	1,537	1,516	1,485	1,434
25	25,00	21,6506	26,00	23,89	22,96	23,26	1,537	1,516	1,485	1,433
26	26,00	22,5167	27,00	24,89	23,96	24,26	1,536	1,516	1,485	1,433
27	27,00	23,3827	28,00	25,88	24,96	25,26	1,536	1,515	1,484	1,432
28	28,00	24,2487	29,00	26,88	25,96	26,26	1,536	1,515	1,484	1,431
29	29,00	25,1147	30,00	27,88	26,96	27,26	1,536	1,515	1,483	1,431
30	30,00	25,9808	31,00	28,87	27,96	28,26	1,536	1,515	1,483	1,430
31	31,00	26,8468	32,00	29,87	28,95	29,25	1,536	1,514	1,482	1,429
32	32,00	27,7128	33,00	30,87	29,95	30,25	1,535	1,514	1,482	1,429
33	33,00	28,5788	34,00	31,87	30,95	31,25	1,535	1,514	1,482	1,428
34	34,00	29,4449	35,00	32,87	31,95	32,25	1,535	1,514	1,481	1,427
35	35,00	30,3109	36,00	33,86	32,95	33,25	1,535	1,513	1,481	1,427
36	36,00	31,1769	37,00	34,86	33,95	34,25	1,535	1,513	1,480	1,426
37	37,00	32,0429	38,00	35,86	34,95	35,25	1,535	1,513	1,480	1,426
38	38,00	32,9090	39,00	36,86	35,95	36,25	1,535	1,513	1,480	1,425
39	39,00	33,7750	40,00	37,86	36,95	37,25	1,534	1,512	1,479	1,424
40	40,00	34,6410	41,00	38,86	37,95	38,25	1,534	1,512	1,479	1,424
41	41,00	35,5070	42,00	39,85	38,94	39,24	1,534	1,512	1,479	1,423
42	42,00	36,3731	43,00	40,85	39,94	40,24	1,534	1,512	1,478	1,423
43	43,00	37,2391	44,00	41,85	40,94	41,24	1,534	1,512	1,478	1,422
44	44,00	38,1051	45,00	42,85	41,94	42,24	1,534	1,511	1,478	1,422
45	45,00	38,9711	46,00	43,85	42,94	43,24	1,534	1,511	1,477	1,421
46	46,00	39,8372	47,00	44,85	43,94	44,24	1,533	1,511	1,477	1,421
47	47,00	40,7032	48,00	45,85	44,94	45,24	1,533	1,511	1,477	1,420
48	48,00	41,5692	49,00	46,85	45,94	46,24	1,533	1,510	1,476	1,420
49	49,00	42,4352	50,00	47,85	46,94	47,24	1,533	1,510	1,476	1,419
50	50,00	43,3013	51,00	48,84	47,94	48,24	1,533	1,510	1,476	1,419
51	51,00	44,1673	52,00	49,84	48,94	49,24	1,533	1,510	1,476	1,418
52	52,00	45,0333	53,00	50,84	49,93	50,23	1,533	1,510	1,475	1,418
53	53,00	45,8993	54,00	51,84	50,93	51,23	1,533	1,510	1,475	1,417
54	54,00	46,7654	55,00	52,84	51,93	52,23	1,532	1,509	1,475	1,417
55	55,00	47,6314	56,00	53,84	52,93	53,23	1,532	1,509	1,474	1,416
56	56,00	48,4974	57,00	54,84	53,93	54,23	1,532	1,509	1,474	1,416
57	57,00	49,3634	58,00	55,84	54,93	55,23	1,532	1,509	1,474	1,415
58	58,00	50,2295	59,00	56,84	55,93	56,23	1,532	1,509	1,474	1,415
59	59,00	51,0955	60,00	57,84	56,93	57,23	1,532	1,508	1,473	1,415
60	60,00	51,9615	61,00	58,84	57,93	58,23	1,532	1,508	1,473	1,414
61	61,00	52,8275	62,00	59,84	58,93	59,23	1,532	1,508	1,473	1,414
62	62,00	53,6936	63,00	60,84	59,93	60,23	1,532	1,508	1,472	1,413
63	63,00	54,5596	64,00	61,83	60,93	61,23	1,531	1,508	1,472	1,413
64	64,00	55,4256	65,00	62,83	61,93	62,23	1,531	1,508	1,472	1,412
65	65,00	56,2917	66,00	63,83	62,92	63,22	1,531	1,507	1,472	1,412
66	66,00	57,1577	67,00	64,83	63,92	64,22	1,531	1,507	1,471	1,412
67	67,00	58,0237	68,00	65,83	64,92	65,22	1,531	1,507	1,471	1,411
68	68,00	58,8897	69,00	66,83	65,92	66,22	1,531	1,507	1,471	1,411
69	69,00	59,7558	70,00	67,83	66,92	67,22	1,531	1,507	1,471	1,410
70	70,00	60,6218	71,00	68,83	67,92	68,22	1,531	1,507	1,470	1,410
71	71,00	61,4878	72,00	69,83	68,92	69,22	1,531	1,506	1,470	1,410
72	72,00	62,3538	73,00	70,83	69,92	70,22	1,531	1,506	1,470	1,409
73	73,00	63,2199	74,00	71,83	70,92	71,22	1,530	1,506	1,470	1,409
74	74,00	64,0859	75,00	72,83	71,92	72,22	1,530	1,506	1,469	1,409
75	75,00	64,9519	76,00	73,83	72,92	73,22	1,530	1,506	1,469	1,408
76	76,00	65,8179	77,00	74,83	73,92	74,22	1,530	1,506	1,469	1,408
77	77,00	66,6840	78,00	75,83	74,92	75,22	1,530	1,506	1,469	1,407
78	78,00	67,5500	79,00	76,83	75,92	76,22	1,530	1,505	1,469	1,407
79	79,00	68,4160	80,00	77,83	76,92	77,22	1,530	1,505	1,468	1,407
80	80,00	69,2820	81,00	78,83	77,91	78,21	1,530	1,505	1,468	1,406
81	81,00	70,1481	82,00	79,83	78,91	79,21	1,530	1,505	1,468	1,406
82	82,00	71,0141	83,00	80,83	79,91	80,21	1,530	1,505	1,468	1,406
83	83,00	71,8801	84,00	81,83	80,91	81,21	1,530	1,505	1,467	1,405
84	84,00	72,7461	85,00	82,83	81,91	82,21	1,529	1,505	1,467	1,405
85	85,00	73,6122	86,00	83,83	82,91	83,21	1,529	1,504	1,467	1,405
86	86,00	74,4782	87,00	84,83	83,91	84,21	1,529	1,504	1,467	1,404
87	87,00	75,3442	88,00	85,83	84,91	85,21	1,529	1,504	1,467	1,404
88	88,00	76,2102	89,00	86,82	85,91	86,21	1,529	1,504	1,466	1,403
89	89,00	77,0763	90,00	87,82	86,91	87,21	1,529	1,504	1,466	1,403
90	90,00	77,9423	91,00	88,82	87,91	88,21	1,529	1,504	1,466	1,403
91	91,00	78,8083	92,00	89,82	88,91	89,21	1,529	1,504	1,466	1,402
92	92,00	79,6743	93,00	90,82	89,91	90,21	1,529	1,503	1,465	1,402
93	93,00	80,5404	94,00	91,82	90,91	91,21	1,529	1,503	1,465	1,402
94	94,00	81,4064	95,00	92,82	91,91	92,21	1,529	1,503	1,465	1,401
95	95,00	82,2724	96,00	93,82	92,91	93,21	1,529	1,503	1,465	1,401
96	96,00	83,1384	97,00	94,82	93,91	94,21	1,528	1,503	1,465	1,401
97	97,00	84,0045	98,00	95,82	94,90	95,20	1,528	1,503	1,464	1,400
98	98,00	84,8705	99,00	96,82	95,90	96,20	1,528	1,503	1,464	1,400
99	99,00	85,7365	100,00	97,82	96,90	97,20	1,528	1,503	1,464	1,400
100	100,00	86,6025	101,00	98,82	97,90	98,20	1,528	1,502	1,464	1,400

Table 11 — Inspection dimensions internal spline, $\alpha = 30°$, $m = 1$, flat or fillet root, $E_{v\,min} = 1{,}571$

z	D_{Ri}	Measurement over balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—	—
8	1,70	5,475	5,532	5,493	5,584	5,519	5,657	5,559	5,767	2,322
9	1,70	6,390	6,438	6,405	6,484	6,427	6,549	6,462	6,651	2,164
10	1,70	7,538	7,583	7,553	7,627	7,573	7,690	7,606	7,790	2,117
11	1,70	8,450	8,492	8,463	8,533	8,483	8,594	8,514	8,691	2,040
12	1,70	9,566	9,607	9,579	9,648	9,599	9,708	9,629	9,805	2,019
13	1,80	10,120	10,165	10,135	10,210	10,156	10,276	10,190	10,381	2,161
14	1,80	11,224	11,267	11,239	11,312	11,260	11,376	11,293	11,480	2,123
15	1,80	12,160	12,202	12,174	12,245	12,195	12,308	12,227	12,409	2,069
16	1,80	13,247	13,288	13,262	13,331	13,282	13,393	13,314	13,494	2,046
17	1,80	14,188	14,228	14,202	14,269	14,221	14,331	14,253	14,431	2,009
18	1,80	15,263	15,303	15,277	15,344	15,297	15,406	15,328	15,505	1,994
19	1,80	16,208	16,247	16,222	16,288	16,241	16,348	16,272	16,447	1,968
20	1,80	17,275	17,314	17,289	17,354	17,308	17,415	17,340	17,514	1,957
21	1,80	18,224	18,262	18,238	18,302	18,257	18,363	18,288	18,461	1,937
22	1,80	19,284	19,322	19,298	19,363	19,317	19,423	19,348	19,521	1,929
23	1,80	20,237	20,274	20,250	20,314	20,270	20,374	20,301	20,473	1,913
24	1,80	21,291	21,329	21,305	21,369	21,325	21,429	21,356	21,528	1,907
25	1,80	22,247	22,284	22,261	22,324	22,280	22,384	22,311	22,483	1,894
26	1,80	23,297	23,334	23,311	23,374	23,331	23,434	23,362	23,533	1,890
27	1,80	24,256	24,292	24,270	24,333	24,289	24,392	24,321	24,491	1,879
28	1,80	25,302	25,339	25,316	25,379	25,336	25,439	25,367	25,538	1,875
29	1,80	26,263	26,300	26,277	26,340	26,297	26,400	26,329	26,499	1,866
30	1,80	27,307	27,343	27,321	27,383	27,341	27,443	27,372	27,542	1,863
31	1,80	28,270	28,306	28,284	28,346	28,304	28,406	28,336	28,506	1,856
32	1,80	29,310	29,346	29,325	29,387	29,345	29,447	29,376	29,546	1,853
33	1,80	30,276	30,311	30,290	30,352	30,310	30,412	30,342	30,512	1,846
34	1,80	31,314	31,349	31,328	31,390	31,348	31,450	31,380	31,550	1,844
35	1,80	32,281	32,316	32,295	32,357	32,316	32,417	32,348	32,517	1,839
36	1,80	33,317	33,352	33,331	33,393	33,351	33,453	33,384	33,553	1,837
37	1,80	34,285	34,321	34,300	34,361	34,320	34,422	34,353	34,522	1,832
38	1,80	35,319	35,354	35,334	35,395	35,354	35,456	35,387	35,557	1,830
39	1,80	36,289	36,325	36,304	36,365	36,325	36,426	36,357	36,527	1,826
40	1,80	37,321	37,357	37,336	37,397	37,357	37,459	37,390	37,560	1,824
41	1,80	38,293	38,328	38,308	38,369	38,329	38,430	38,362	38,531	1,820
42	1,80	39,324	39,359	39,339	39,400	39,360	39,461	39,393	39,562	1,819
43	1,80	40,296	40,331	40,311	40,372	40,333	40,434	40,366	40,535	1,815
44	1,80	41,326	41,360	41,341	41,402	41,362	41,463	41,395	41,565	1,814
45	1,80	42,300	42,334	42,315	42,376	42,336	42,437	42,369	42,539	1,811
46	1,80	43,327	43,362	43,343	43,403	43,364	43,465	43,398	43,568	1,810
47	1,80	44,302	44,337	44,318	44,378	44,339	44,440	44,373	44,543	1,807
48	1,80	45,329	45,364	45,344	45,405	45,366	45,467	45,400	45,570	1,806
49	1,80	46,305	46,340	46,321	46,381	46,342	46,443	46,376	46,546	1,803
50	1,80	47,331	47,365	47,346	47,407	47,368	47,469	47,402	47,572	1,803
51	1,80	48,308	48,342	48,323	48,384	48,345	48,446	48,379	48,550	1,800
52	1,80	49,332	49,366	49,348	49,408	49,370	49,471	49,404	49,575	1,799
53	1,80	50,310	50,344	50,326	50,386	50,348	50,449	50,382	50,553	1,797
54	1,80	51,333	51,368	51,349	51,410	51,371	51,472	51,406	51,577	1,797
55	1,80	52,312	52,346	52,328	52,388	52,350	52,451	52,385	52,555	1,794
56	1,80	53,335	53,369	53,351	53,411	53,373	53,474	53,408	53,579	1,794
57	1,80	54,314	54,348	54,330	54,390	54,353	54,453	54,388	54,558	1,792
58	1,80	55,336	55,370	55,352	55,412	55,375	55,476	55,410	55,581	1,791
59	1,80	56,316	56,350	56,332	56,392	56,355	56,456	56,390	56,561	1,790
60	1,80	57,337	57,371	57,353	57,413	57,376	57,477	57,412	57,583	1,789
61	1,80	58,318	58,351	58,334	58,394	58,357	58,458	58,393	58,563	1,787
62	1,80	59,338	59,372	59,355	59,415	59,378	59,478	59,413	59,584	1,787
63	1,80	60,319	60,353	60,336	60,396	60,359	60,460	60,395	60,566	1,785
64	1,80	61,339	61,373	61,356	61,416	61,379	61,480	61,415	61,586	1,785
65	1,80	62,321	62,355	62,338	62,398	62,361	62,462	62,397	62,568	1,783
66	1,80	63,340	63,374	63,357	63,417	63,380	63,481	63,417	63,588	1,783
67	1,80	64,322	64,356	64,339	64,399	64,363	64,464	64,399	64,571	1,782
68	1,80	65,341	65,375	65,358	65,418	65,382	65,482	65,418	65,590	1,781
69	1,80	66,324	66,357	66,341	66,401	66,365	66,465	66,401	66,573	1,780
70	1,80	67,342	67,375	67,359	67,419	67,383	67,484	67,420	67,591	1,780
71	1,80	68,325	68,359	68,342	68,402	68,366	68,467	68,403	68,575	1,779
72	1,80	69,343	69,376	69,360	69,420	69,384	69,485	69,421	69,593	1,778
73	1,80	70,327	70,360	70,344	70,404	70,368	70,469	70,405	70,577	1,777
74	1,80	71,344	71,377	71,361	71,421	71,385	71,486	71,423	71,595	1,777
75	1,80	72,328	72,361	72,345	72,405	72,370	72,470	72,407	72,579	1,776
76	1,80	73,345	73,378	73,362	73,422	73,386	73,487	73,424	73,596	1,775
77	1,80	74,329	74,362	74,347	74,406	74,371	74,472	74,409	74,581	1,774
78	1,80	75,345	75,378	75,363	75,422	75,387	75,488	75,426	75,598	1,774
79	1,80	76,330	76,363	76,348	76,407	76,373	76,473	76,411	76,583	1,773
80	1,80	77,346	77,379	77,364	77,423	77,389	77,489	77,427	77,599	1,773
81	1,80	78,331	78,364	78,349	78,409	78,374	78,475	78,412	78,585	1,772
82	1,80	79,347	79,380	79,365	79,424	79,390	79,490	79,428	79,601	1,772
83	1,80	80,332	80,365	80,350	80,410	80,375	80,476	80,414	80,587	1,771
84	1,80	81,348	81,380	81,365	81,425	81,391	81,491	81,429	81,602	1,771
85	1,80	82,334	82,366	82,351	82,411	82,377	82,478	82,416	82,588	1,770
86	1,80	83,348	83,381	83,366	83,426	83,392	83,492	83,431	83,603	1,770
87	1,80	84,335	84,367	84,353	84,412	84,378	84,479	84,417	84,590	1,769
88	1,80	85,349	85,382	85,367	85,426	85,393	85,493	85,432	85,605	1,769
89	1,80	86,335	86,368	86,354	86,413	86,379	86,480	86,419	86,592	1,768
90	1,80	87,350	87,382	87,368	87,427	87,394	87,494	87,433	87,606	1,768
91	1,80	88,336	88,369	88,355	88,414	88,381	88,481	88,420	88,593	1,767
92	1,80	89,350	89,383	89,369	89,428	89,394	89,495	89,434	89,607	1,767
93	1,80	90,337	90,370	90,356	90,415	90,382	90,483	90,422	90,595	1,766
94	1,80	91,351	91,383	91,369	91,429	91,395	91,496	91,436	91,609	1,766
95	1,80	92,338	92,371	92,357	92,416	92,383	92,484	92,423	92,596	1,765
96	1,80	93,351	93,384	93,370	93,429	93,396	93,497	93,437	93,610	1,765
97	1,80	94,339	94,371	94,358	94,417	94,384	94,485	94,425	94,598	1,765
98	1,80	95,352	95,384	95,371	95,430	95,397	95,498	95,438	95,611	1,764
99	1,80	96,340	96,372	96,359	96,418	96,385	96,486	96,426	96,599	1,764
100	1,80	97,353	97,385	97,371	97,430	97,398	97,499	97,439	97,612	1,764

Table 12 — Inspection dimensions external spline, $\alpha = 30°$, $m = 1$, fillet root, $S_{v\,max} = 1{,}571$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	2,24	9,615	9,636	9,593	9,630	9,561	9,620	9,507	9,604	1,239
7	2,24	10,429	10,451	10,408	10,445	10,375	10,435	10,320	10,419	1,238
8	2,12	11,362	11,386	11,339	11,379	11,303	11,368	11,243	11,350	1,331
9	2,12	12,222	12,245	12,198	12,238	12,161	12,227	12,101	12,209	1,334
10	2,12	13,390	13,415	13,365	13,407	13,328	13,396	13,264	13,377	1,376
11	2,00	13,966	13,992	13,940	13,983	13,901	13,971	13,835	13,952	1,418
12	2,00	15,097	15,123	15,070	15,114	15,029	15,102	14,961	15,082	1,449
13	2,00	16,001	16,027	15,973	16,018	15,932	16,006	15,864	15,985	1,453
14	2,00	17,109	17,136	17,081	17,127	17,039	17,114	16,969	17,094	1,477
15	2,00	18,026	18,053	17,998	18,044	17,956	18,031	17,884	18,010	1,480
16	2,00	19,119	19,147	19,091	19,137	19,047	19,124	18,975	19,102	1,499
17	2,00	20,046	20,074	20,017	20,064	19,974	20,051	19,900	20,029	1,503
18	2,00	21,128	21,155	21,098	21,146	21,053	21,132	20,979	21,110	1,518
19	2,00	22,062	22,090	22,033	22,081	21,988	22,066	21,912	22,044	1,521
20	2,00	23,134	23,163	23,104	23,153	23,058	23,138	22,982	23,115	1,534
21	1,90	23,799	23,828	23,768	23,818	23,721	23,803	23,643	23,779	1,566
22	1,90	24,863	24,892	24,831	24,881	24,784	24,866	24,704	24,842	1,576
23	1,90	25,808	25,838	25,777	25,827	25,729	25,812	25,649	25,787	1,578
24	1,90	26,866	26,895	26,834	26,884	26,785	26,869	26,704	26,844	1,587
25	1,90	27,816	27,846	27,784	27,835	27,735	27,819	27,654	27,794	1,589
26	1,90	28,869	28,898	28,836	28,887	28,787	28,872	28,705	28,846	1,596
27	1,90	29,823	29,853	29,790	29,841	29,740	29,825	29,657	29,800	1,598
28	1,90	30,871	30,901	30,838	30,890	30,788	30,874	30,704	30,848	1,605
29	1,90	31,829	31,858	31,795	31,847	31,745	31,831	31,661	31,805	1,606
30	1,90	32,874	32,904	32,840	32,892	32,789	32,875	32,704	32,849	1,612
31	1,90	33,834	33,864	33,800	33,852	33,749	33,835	33,663	33,809	1,613
32	1,90	34,876	34,906	34,841	34,894	34,790	34,877	34,704	34,850	1,619
33	1,90	35,838	35,868	35,804	35,856	35,752	35,839	35,665	35,812	1,620
34	1,90	36,877	36,907	36,843	36,895	36,791	36,878	36,703	36,851	1,624
35	1,90	37,842	37,872	37,807	37,860	37,755	37,842	37,667	37,815	1,626
36	1,90	38,879	38,909	38,844	38,897	38,791	38,879	38,703	38,851	1,630
37	1,90	39,845	39,876	39,810	39,863	39,757	39,845	39,668	39,817	1,631
38	1,90	40,880	40,910	40,845	40,898	40,791	40,880	40,702	40,852	1,635
39	1,90	41,848	41,879	41,813	41,866	41,759	41,848	41,669	41,820	1,636
40	1,90	42,881	42,912	42,845	42,899	42,792	42,881	42,701	42,852	1,639
41	1,90	43,851	43,881	43,815	43,868	43,761	43,850	43,670	43,821	1,640
42	1,90	44,882	44,913	44,846	44,900	44,792	44,881	44,701	44,852	1,643
43	1,90	45,853	45,884	45,817	45,871	45,762	45,852	45,671	45,823	1,644
44	1,90	46,883	46,914	46,847	46,900	46,792	46,882	46,700	46,852	1,647
45	1,90	47,856	47,886	47,819	47,873	47,764	47,854	47,671	47,824	1,648
46	1,90	48,884	48,915	48,847	48,901	48,792	48,882	48,699	48,852	1,650
47	1,90	49,858	49,888	49,821	49,875	49,765	49,855	49,672	49,825	1,651
48	1,90	50,885	50,915	50,847	50,902	50,792	50,882	50,698	50,852	1,653
49	1,90	51,859	51,890	51,822	51,876	51,766	51,857	51,672	51,826	1,654
50	1,90	52,885	52,916	52,848	52,902	52,791	52,883	52,697	52,852	1,656
51	1,90	53,861	53,892	53,823	53,878	53,767	53,858	53,672	53,827	1,657
52	1,90	54,886	54,917	54,848	54,903	54,791	54,883	54,696	54,852	1,659
53	1,90	55,862	55,893	55,825	55,879	55,768	55,859	55,672	55,828	1,660
54	1,90	56,886	56,917	56,848	56,903	56,791	56,883	56,695	56,851	1,662
55	1,90	57,864	57,895	57,826	57,880	57,768	57,860	57,672	57,828	1,662
56	1,90	58,887	58,918	58,849	58,903	58,791	58,883	58,694	58,851	1,664
57	1,90	59,865	59,896	59,827	59,881	59,769	59,861	59,672	59,829	1,665
58	1,90	60,887	60,918	60,849	60,904	60,791	60,883	60,693	60,851	1,666
59	1,90	61,866	61,897	61,828	61,882	61,769	61,862	61,672	61,829	1,667
60	1,90	62,888	62,919	62,849	62,904	62,790	62,883	62,692	62,850	1,668
61	1,90	63,867	63,898	63,828	63,883	63,770	63,862	63,671	63,830	1,669
62	1,90	64,888	64,919	64,849	64,904	64,790	64,883	64,691	64,850	1,670
63	1,90	65,868	65,899	65,829	65,884	65,770	65,863	65,671	65,830	1,671
64	1,90	66,888	66,919	66,849	66,904	66,790	66,883	66,690	66,850	1,672
65	1,90	67,869	67,900	67,830	67,885	67,770	67,864	67,671	67,830	1,673
66	1,90	68,889	68,920	68,849	68,904	68,789	68,883	68,689	68,849	1,674
67	1,90	69,870	69,901	69,830	69,886	69,770	69,864	69,670	69,830	1,674
68	1,90	70,889	70,920	70,849	70,904	70,789	70,883	70,689	70,849	1,676
69	1,90	71,871	71,902	71,831	71,886	71,771	71,864	71,670	71,830	1,676
70	1,90	72,889	72,920	72,849	72,904	72,789	72,882	72,688	72,848	1,677
71	1,90	73,872	73,903	73,831	73,887	73,771	73,865	73,670	73,830	1,678
72	1,90	74,889	74,920	74,849	74,904	74,788	74,882	74,687	74,848	1,679
73	1,90	75,872	75,903	75,832	75,887	75,771	75,865	75,669	75,830	1,679
74	1,90	76,890	76,920	76,849	76,904	76,788	76,882	76,686	76,847	1,680
75	1,90	77,873	77,904	77,832	77,888	77,771	77,865	77,669	77,830	1,680
76	1,90	78,890	78,921	78,849	78,904	78,787	78,882	78,685	78,846	1,682
77	1,90	79,874	79,904	79,833	79,888	79,771	79,865	79,668	79,830	1,682
78	1,90	80,890	80,921	80,849	80,904	80,787	80,882	80,684	80,846	1,683
79	1,90	81,874	81,905	81,833	81,889	81,771	81,866	81,667	81,830	1,683
80	1,90	82,890	82,921	82,849	82,904	82,787	82,881	82,683	82,845	1,684
81	1,90	83,875	83,906	83,833	83,889	83,771	83,866	83,667	83,830	1,684
82	1,90	84,890	84,921	84,849	84,904	84,786	84,881	84,682	84,845	1,685
83	1,90	85,875	85,906	85,834	85,889	85,771	85,866	85,666	85,829	1,685
84	1,90	86,890	86,921	86,848	86,904	86,786	86,881	86,681	86,844	1,686
85	1,90	87,876	87,906	87,834	87,890	87,771	87,866	87,666	87,829	1,687
86	1,90	88,890	88,921	88,848	88,904	88,785	88,880	88,680	88,844	1,687
87	1,90	89,876	89,907	89,834	89,890	89,771	89,866	89,665	89,829	1,688
88	1,90	90,890	90,921	90,848	90,904	90,785	90,880	90,679	90,843	1,688
89	1,90	91,876	91,907	91,834	91,890	91,771	91,866	91,665	91,829	1,689
90	1,90	92,890	92,921	92,848	92,904	92,784	92,880	92,678	92,842	1,689
91	1,90	93,877	93,907	93,834	93,890	93,771	93,866	93,664	93,828	1,690
92	1,90	94,891	94,921	94,848	94,904	94,784	94,879	94,677	94,842	1,690
93	1,90	95,877	95,908	95,834	95,890	95,770	95,866	95,663	95,828	1,690
94	1,90	96,891	96,921	96,848	96,904	96,784	96,879	96,676	96,841	1,691
95	1,90	97,877	97,908	97,835	97,890	97,770	97,866	97,663	97,828	1,691
96	1,90	98,891	98,921	98,848	98,904	98,783	98,879	98,675	98,840	1,692
97	1,90	99,878	99,908	99,835	99,891	99,770	99,866	99,662	99,827	1,692
98	1,90	100,891	100,921	100,847	100,903	100,783	100,878	100,674	100,840	1,693
99	1,90	101,878	101,909	101,835	101,891	101,770	101,866	101,661	101,827	1,693
100	1,90	102,891	102,921	102,847	102,903	102,782	102,878	102,673	102,839	1,694

5.4 30° pressure angle, module 1,25

Table 13 — Geometry internal spline, $\alpha = 30°$, $m = 1{,}25$, flat and fillet root, $E_{v\,min} = 1{,}963$

z	D	D_b	$D_{ei\,max}$ Fillet root	$D_{ei\,max}$ Flat	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
							4H	5H	6H	7H
6	7,50	6,4952	9,97	9,59	9,00	6,79	1,994	2,013	2,042	2,089
7	8,75	7,5777	11,22	10,85	10,25	7,95	1,995	2,014	2,043	2,091
8	10,00	8,6603	12,47	12,10	11,50	9,14	1,995	2,015	2,044	2,093
9	11,25	9,7428	13,73	13,35	12,75	10,34	1,996	2,015	2,045	2,094
10	12,50	10,8253	14,98	14,60	14,00	11,55	1,996	2,016	2,046	2,096
11	13,75	11,9078	16,23	15,86	15,25	12,77	1,997	2,017	2,047	2,097
12	15,00	12,9904	17,48	17,11	16,50	14,00	1,997	2,017	2,048	2,098
13	16,25	14,0729	18,74	18,36	17,75	15,23	1,997	2,018	2,048	2,100
14	17,50	15,1554	19,99	19,61	19,00	16,46	1,997	2,018	2,049	2,101
15	18,75	16,2380	21,24	20,87	20,25	17,69	1,998	2,019	2,050	2,102
16	20,00	17,3205	22,49	22,12	21,50	18,93	1,998	2,019	2,051	2,103
17	21,25	18,4030	23,74	23,37	22,75	20,17	1,998	2,019	2,051	2,104
18	22,50	19,4856	25,00	24,62	24,00	21,41	1,999	2,020	2,052	2,105
19	23,75	20,5681	26,25	25,87	25,25	22,65	1,999	2,020	2,052	2,106
20	25,00	21,6506	27,50	27,12	26,50	23,89	1,999	2,021	2,053	2,107
21	26,25	22,7332	28,75	28,38	27,75	25,14	1,999	2,021	2,054	2,108
22	27,50	23,8157	30,00	29,63	29,00	26,38	1,999	2,021	2,054	2,109
23	28,75	24,8982	31,25	30,88	30,25	27,62	2,000	2,022	2,055	2,110
24	30,00	25,9808	32,51	32,13	31,50	28,87	2,000	2,022	2,055	2,111
25	31,25	27,0633	33,76	33,38	32,75	30,11	2,000	2,022	2,056	2,111
26	32,50	28,1458	35,01	34,63	34,00	31,36	2,000	2,023	2,056	2,112
27	33,75	29,2284	36,26	35,88	35,25	32,60	2,000	2,023	2,057	2,113
28	35,00	30,3109	37,51	37,14	36,50	33,85	2,001	2,023	2,057	2,114
29	36,25	31,3934	38,76	38,39	37,75	35,10	2,001	2,024	2,058	2,114
30	37,50	32,4760	40,01	39,64	39,00	36,34	2,001	2,024	2,058	2,115
31	38,75	33,5585	41,26	40,89	40,25	37,59	2,001	2,024	2,059	2,116
32	40,00	34,6410	42,52	42,14	41,50	38,84	2,001	2,024	2,059	2,117
33	41,25	35,7235	43,77	43,39	42,75	40,08	2,002	2,025	2,059	2,117
34	42,50	36,8061	45,02	44,64	44,00	41,33	2,002	2,025	2,060	2,118
35	43,75	37,8886	46,27	45,89	45,25	42,58	2,002	2,025	2,060	2,119
36	45,00	38,9711	47,52	47,15	46,50	43,83	2,002	2,026	2,061	2,119
37	46,25	40,0537	48,77	48,40	47,75	45,08	2,002	2,026	2,061	2,120
38	47,50	41,1362	50,02	49,65	49,00	46,32	2,002	2,026	2,061	2,121
39	48,75	42,2187	51,27	50,90	50,25	47,57	2,003	2,026	2,062	2,121
40	50,00	43,3013	52,53	52,15	51,50	48,82	2,003	2,027	2,062	2,122
41	51,25	44,3838	53,78	53,40	52,75	50,07	2,003	2,027	2,063	2,122
42	52,50	45,4663	55,03	54,65	54,00	51,32	2,003	2,027	2,063	2,123
43	53,75	46,5489	56,28	55,90	55,25	52,56	2,003	2,027	2,063	2,124
44	55,00	47,6314	57,53	57,15	56,50	53,81	2,003	2,027	2,064	2,124
45	56,25	48,7139	58,78	58,41	57,75	55,06	2,003	2,028	2,064	2,125
46	57,50	49,7965	60,03	59,66	59,00	56,31	2,004	2,028	2,064	2,125
47	58,75	50,8790	61,28	60,91	60,25	57,56	2,004	2,028	2,065	2,126
48	60,00	51,9615	62,53	62,16	61,50	58,81	2,004	2,028	2,065	2,126
49	61,25	53,0441	63,78	63,41	62,75	60,06	2,004	2,029	2,065	2,127
50	62,50	54,1266	65,03	64,66	64,00	61,31	2,004	2,029	2,066	2,127
51	63,75	55,2091	66,29	65,91	65,25	62,55	2,004	2,029	2,066	2,128
52	65,00	56,2917	67,54	67,16	66,50	63,80	2,004	2,029	2,066	2,128
53	66,25	57,3742	68,79	68,41	67,75	65,05	2,004	2,029	2,067	2,129
54	67,50	58,4567	70,04	69,66	69,00	66,30	2,005	2,030	2,067	2,129
55	68,75	59,5392	71,29	70,91	70,25	67,55	2,005	2,030	2,067	2,130
56	70,00	60,6218	72,54	72,17	71,50	68,80	2,005	2,030	2,068	2,130
57	71,25	61,7043	73,79	73,42	72,75	70,05	2,005	2,030	2,068	2,131
58	72,50	62,7868	75,04	74,67	74,00	71,30	2,005	2,030	2,068	2,131
59	73,75	63,8694	76,29	75,92	75,25	72,55	2,005	2,031	2,069	2,132
60	75,00	64,9519	77,54	77,17	76,50	73,80	2,005	2,031	2,069	2,132
61	76,25	66,0344	78,79	78,42	77,75	75,05	2,005	2,031	2,069	2,133
62	77,50	67,1170	80,04	79,67	79,00	76,29	2,006	2,031	2,069	2,133
63	78,75	68,1995	81,30	80,92	80,25	77,54	2,006	2,031	2,070	2,134
64	80,00	69,2820	82,55	82,17	81,50	78,79	2,006	2,031	2,070	2,134
65	81,25	70,3646	83,80	83,42	82,75	80,04	2,006	2,032	2,070	2,135
66	82,50	71,4471	85,05	84,67	84,00	81,29	2,006	2,032	2,071	2,135
67	83,75	72,5296	86,30	85,92	85,25	82,54	2,006	2,032	2,071	2,136
68	85,00	73,6122	87,55	87,17	86,50	83,79	2,006	2,032	2,071	2,136
69	86,25	74,6947	88,80	88,43	87,75	85,04	2,006	2,032	2,071	2,136
70	87,50	75,7772	90,05	89,68	89,00	86,29	2,006	2,033	2,072	2,137
71	88,75	76,8598	91,30	90,93	90,25	87,54	2,007	2,033	2,072	2,137
72	90,00	77,9423	92,55	92,18	91,50	88,79	2,007	2,033	2,072	2,138
73	91,25	79,0248	93,80	93,43	92,75	90,04	2,007	2,033	2,072	2,138
74	92,50	80,1073	95,05	94,68	94,00	91,29	2,007	2,033	2,073	2,139
75	93,75	81,1899	96,30	95,93	95,25	92,54	2,007	2,033	2,073	2,139
76	95,00	82,2724	97,56	97,18	96,50	93,79	2,007	2,034	2,073	2,139
77	96,25	83,3549	98,81	98,43	97,75	95,04	2,007	2,034	2,074	2,140
78	97,50	84,4375	100,06	99,68	99,00	96,29	2,007	2,034	2,074	2,140
79	98,75	85,5200	101,31	100,93	100,25	97,53	2,007	2,034	2,074	2,141
80	100,00	86,6025	102,56	102,18	101,50	98,78	2,008	2,034	2,074	2,141
81	101,25	87,6851	103,81	103,43	102,75	100,03	2,008	2,034	2,075	2,141
82	102,50	88,7676	105,06	104,68	104,00	101,28	2,008	2,035	2,075	2,142
83	103,75	89,8501	106,31	105,94	105,25	102,53	2,008	2,035	2,075	2,142
84	105,00	90,9327	107,56	107,19	106,50	103,78	2,008	2,035	2,075	2,143
85	106,25	92,0152	108,81	108,44	107,75	105,03	2,008	2,035	2,075	2,143
86	107,50	93,0977	110,06	109,69	109,00	106,28	2,008	2,035	2,076	2,143
87	108,75	94,1803	111,31	110,94	110,25	107,53	2,008	2,035	2,076	2,144
88	110,00	95,2628	112,56	112,19	111,50	108,78	2,008	2,035	2,076	2,144
89	111,25	96,3453	113,81	113,44	112,75	110,03	2,008	2,036	2,076	2,144
90	112,50	97,4279	115,06	114,69	114,00	111,28	2,008	2,036	2,077	2,145
91	113,75	98,5104	116,32	115,94	115,25	112,53	2,009	2,036	2,077	2,145
92	115,00	99,5929	117,57	117,19	116,50	113,78	2,009	2,036	2,077	2,146
93	116,25	100,6755	118,82	118,44	117,75	115,03	2,009	2,036	2,077	2,146
94	117,50	101,7580	120,07	119,69	119,00	116,28	2,009	2,036	2,078	2,146
95	118,75	102,8405	121,32	120,94	120,25	117,53	2,009	2,036	2,078	2,147
96	120,00	103,9230	122,57	122,19	121,50	118,78	2,009	2,037	2,078	2,147
97	121,25	105,0056	123,82	123,44	122,75	120,03	2,009	2,037	2,078	2,147
98	122,50	106,0881	125,07	124,70	124,00	121,28	2,009	2,037	2,078	2,148
99	123,75	107,1706	126,32	125,95	125,25	122,53	2,009	2,037	2,079	2,148
100	125,00	108,2532	127,57	127,20	126,50	123,78	2,009	2,037	2,079	2,148

Table 14 — Geometry external spline, $\alpha = 30°$, $m = 1{,}25$, flat and fillet root, $S_{v\,max} = 1{,}963$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$ Fillet root	$D_{ie\,min}$ Flat	S_{min}			
							4h	5h	6h	7h
6	7,50	6,4952	8,75	6,54	5,03	5,41	1,932	1,913	1,884	1,837
7	8,75	7,5777	10,00	7,70	6,28	6,65	1,931	1,912	1,883	1,835
8	10,00	8,6603	11,25	8,89	7,53	7,90	1,931	1,911	1,882	1,833
9	11,25	9,7428	12,50	10,09	8,77	9,15	1,930	1,911	1,881	1,832
10	12,50	10,8253	13,75	11,30	10,02	10,40	1,930	1,910	1,880	1,830
11	13,75	11,9078	15,00	12,52	11,27	11,64	1,929	1,909	1,879	1,829
12	15,00	12,9904	16,25	13,75	12,52	12,89	1,929	1,909	1,878	1,828
13	16,25	14,0729	17,50	14,98	13,76	14,14	1,929	1,908	1,878	1,826
14	17,50	15,1554	18,75	16,21	15,01	15,39	1,929	1,908	1,877	1,825
15	18,75	16,2380	20,00	17,44	16,26	16,63	1,928	1,907	1,876	1,824
16	20,00	17,3205	21,25	18,68	17,51	17,88	1,928	1,907	1,875	1,823
17	21,25	18,4030	22,50	19,92	18,76	19,13	1,928	1,907	1,875	1,822
18	22,50	19,4856	23,75	21,16	20,00	20,38	1,927	1,906	1,874	1,821
19	23,75	20,5681	25,00	22,40	21,25	21,63	1,927	1,906	1,874	1,820
20	25,00	21,6506	26,25	23,64	22,50	22,88	1,927	1,905	1,873	1,819
21	26,25	22,7332	27,50	24,89	23,75	24,12	1,927	1,905	1,872	1,818
22	27,50	23,8157	28,75	26,13	25,00	25,37	1,927	1,905	1,872	1,817
23	28,75	24,8982	30,00	27,37	26,25	26,62	1,926	1,904	1,871	1,816
24	30,00	25,9808	31,25	28,62	27,49	27,87	1,926	1,904	1,871	1,815
25	31,25	27,0633	32,50	29,86	28,74	29,12	1,926	1,904	1,870	1,815
26	32,50	28,1458	33,75	31,11	29,99	30,37	1,926	1,903	1,870	1,814
27	33,75	29,2284	35,00	32,35	31,24	31,62	1,926	1,903	1,869	1,813
28	35,00	30,3109	36,25	33,60	32,49	32,86	1,925	1,903	1,869	1,812
29	36,25	31,3934	37,50	34,85	33,74	34,11	1,925	1,902	1,868	1,812
30	37,50	32,4760	38,75	36,09	34,99	35,36	1,925	1,902	1,868	1,811
31	38,75	33,5585	40,00	37,34	36,24	36,61	1,925	1,902	1,867	1,810
32	40,00	34,6410	41,25	38,59	37,48	37,86	1,925	1,902	1,867	1,809
33	41,25	35,7235	42,50	39,83	38,73	39,11	1,924	1,901	1,867	1,809
34	42,50	36,8061	43,75	41,08	39,98	40,36	1,924	1,901	1,866	1,808
35	43,75	37,8886	45,00	42,33	41,23	41,61	1,924	1,901	1,866	1,807
36	45,00	38,9711	46,25	43,58	42,48	42,85	1,924	1,900	1,865	1,807
37	46,25	40,0537	47,50	44,83	43,73	44,10	1,924	1,900	1,865	1,806
38	47,50	41,1362	48,75	46,07	44,98	45,35	1,924	1,900	1,865	1,805
39	48,75	42,2187	50,00	47,32	46,23	46,60	1,923	1,900	1,864	1,805
40	50,00	43,3013	51,25	48,57	47,47	47,85	1,923	1,899	1,864	1,804
41	51,25	44,3838	52,50	49,82	48,72	49,10	1,923	1,899	1,863	1,804
42	52,50	45,4663	53,75	51,07	49,97	50,35	1,923	1,899	1,863	1,803
43	53,75	46,5489	55,00	52,31	51,22	51,60	1,923	1,899	1,863	1,802
44	55,00	47,6314	56,25	53,56	52,47	52,85	1,923	1,899	1,862	1,802
45	56,25	48,7139	57,50	54,81	53,72	54,09	1,923	1,898	1,862	1,801
46	57,50	49,7965	58,75	56,06	54,97	55,34	1,922	1,898	1,862	1,801
47	58,75	50,8790	60,00	57,31	56,22	56,59	1,922	1,898	1,861	1,800
48	60,00	51,9615	61,25	58,56	57,47	57,84	1,922	1,898	1,861	1,800
49	61,25	53,0441	62,50	59,81	58,72	59,09	1,922	1,897	1,861	1,799
50	62,50	54,1266	63,75	61,06	59,97	60,34	1,922	1,897	1,860	1,799
51	63,75	55,2091	65,00	62,30	61,21	61,59	1,922	1,897	1,860	1,798
52	65,00	56,2917	66,25	63,55	62,46	62,84	1,922	1,897	1,860	1,798
53	66,25	57,3742	67,50	64,80	63,71	64,09	1,922	1,897	1,859	1,797
54	67,50	58,4567	68,75	66,05	64,96	65,34	1,921	1,896	1,859	1,797
55	68,75	59,5392	70,00	67,30	66,21	66,59	1,921	1,896	1,859	1,796
56	70,00	60,6218	71,25	68,55	67,46	67,83	1,921	1,896	1,858	1,796
57	71,25	61,7043	72,50	69,80	68,71	69,08	1,921	1,896	1,858	1,795
58	72,50	62,7868	73,75	71,05	69,96	70,33	1,921	1,896	1,858	1,795
59	73,75	63,8694	75,00	72,30	71,21	71,58	1,921	1,895	1,857	1,794
60	75,00	64,9519	76,25	73,55	72,46	72,83	1,921	1,895	1,857	1,794
61	76,25	66,0344	77,50	74,80	73,71	74,08	1,921	1,895	1,857	1,793
62	77,50	67,1170	78,75	76,04	74,96	75,33	1,920	1,895	1,857	1,793
63	78,75	68,1995	80,00	77,29	76,20	76,58	1,920	1,895	1,856	1,792
64	80,00	69,2820	81,25	78,54	77,45	77,83	1,920	1,895	1,856	1,792
65	81,25	70,3646	82,50	79,79	78,70	79,08	1,920	1,894	1,856	1,791
66	82,50	71,4471	83,75	81,04	79,95	80,33	1,920	1,894	1,855	1,791
67	83,75	72,5296	85,00	82,29	81,20	81,58	1,920	1,894	1,855	1,790
68	85,00	73,6122	86,25	83,54	82,45	82,83	1,920	1,894	1,855	1,790
69	86,25	74,6947	87,50	84,79	83,70	84,07	1,920	1,894	1,855	1,790
70	87,50	75,7772	88,75	86,04	84,95	85,32	1,920	1,893	1,854	1,789
71	88,75	76,8598	90,00	87,29	86,20	86,57	1,919	1,893	1,854	1,789
72	90,00	77,9423	91,25	88,54	87,45	87,82	1,919	1,893	1,854	1,788
73	91,25	79,0248	92,50	89,79	88,70	89,07	1,919	1,893	1,854	1,788
74	92,50	80,1073	93,75	91,04	89,95	90,32	1,919	1,893	1,853	1,787
75	93,75	81,1899	95,00	92,29	91,20	91,57	1,919	1,893	1,853	1,787
76	95,00	82,2724	96,25	93,54	92,44	92,82	1,919	1,892	1,853	1,787
77	96,25	83,3549	97,50	94,79	93,69	94,07	1,919	1,892	1,852	1,786
78	97,50	84,4375	98,75	96,04	94,94	95,32	1,919	1,892	1,852	1,786
79	98,75	85,5200	100,00	97,28	96,19	96,57	1,919	1,892	1,852	1,785
80	100,00	86,6025	101,25	98,53	97,44	97,82	1,918	1,892	1,852	1,785
81	101,25	87,6851	102,50	99,78	98,69	99,07	1,918	1,892	1,851	1,785
82	102,50	88,7676	103,75	101,03	99,94	100,32	1,918	1,891	1,851	1,784
83	103,75	89,8501	105,00	102,28	101,19	101,56	1,918	1,891	1,851	1,784
84	105,00	90,9327	106,25	103,53	102,44	102,81	1,918	1,891	1,851	1,783
85	106,25	92,0152	107,50	104,78	103,69	104,06	1,918	1,891	1,851	1,783
86	107,50	93,0977	108,75	106,03	104,94	105,31	1,918	1,891	1,850	1,783
87	108,75	94,1803	110,00	107,28	106,19	106,56	1,918	1,891	1,850	1,782
88	110,00	95,2628	111,25	108,53	107,44	107,81	1,918	1,891	1,850	1,782
89	111,25	96,3453	112,50	109,78	108,69	109,06	1,918	1,890	1,850	1,782
90	112,50	97,4279	113,75	111,03	109,94	110,31	1,918	1,890	1,849	1,781
91	113,75	98,5104	115,00	112,28	111,18	111,56	1,917	1,890	1,849	1,781
92	115,00	99,5929	116,25	113,53	112,43	112,81	1,917	1,890	1,849	1,780
93	116,25	100,6755	117,50	114,78	113,68	114,06	1,917	1,890	1,849	1,780
94	117,50	101,7580	118,75	116,03	114,93	115,31	1,917	1,890	1,848	1,780
95	118,75	102,8405	120,00	117,28	116,18	116,56	1,917	1,890	1,848	1,779
96	120,00	103,9230	121,25	118,53	117,43	117,81	1,917	1,889	1,848	1,779
97	121,25	105,0056	122,50	119,78	118,68	119,06	1,917	1,889	1,848	1,779
98	122,50	106,0881	123,75	121,03	119,93	120,30	1,917	1,889	1,848	1,778
99	123,75	107,1706	125,00	122,28	121,18	121,55	1,917	1,889	1,847	1,778
100	125,00	108,2532	126,25	123,53	122,43	122,80	1,917	1,889	1,847	1,778

Table 15 — Inspection dimensions internal spline, $\alpha = 30°$, $m = 1{,}25$, flat or fillet root, $E_{v\,min} = 1{,}963$

z	D_{Ri}	Measurement over balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—	—
8	2,12	6,860	6,922	6,879	6,978	6,906	7,058	6,948	7,179	2,378
9	2,12	8,002	8,054	8,018	8,103	8,041	8,174	8,077	8,286	2,203
10	2,12	9,436	9,485	9,451	9,532	9,473	9,601	9,507	9,710	2,147
11	2,12	10,575	10,621	10,589	10,665	10,610	10,731	10,643	10,837	2,064
12	2,12	11,970	12,014	11,984	12,058	12,004	12,124	12,037	12,229	2,039
13	2,24	12,682	12,731	12,698	12,779	12,720	12,850	12,756	12,964	2,178
14	2,24	14,061	14,108	14,077	14,156	14,099	14,225	14,133	14,338	2,137
15	2,24	15,231	15,276	15,246	15,322	15,267	15,390	15,301	15,500	2,081
16	2,24	16,589	16,634	16,604	16,679	16,625	16,746	16,659	16,856	2,057
17	2,24	17,764	17,807	17,779	17,852	17,799	17,918	17,833	18,026	2,019
18	2,24	19,108	19,151	19,123	19,196	19,144	19,262	19,177	19,370	2,003
19	2,24	20,289	20,331	20,303	20,375	20,324	20,440	20,357	20,547	1,976
20	2,24	21,622	21,664	21,637	21,708	21,658	21,773	21,690	21,880	1,965
21	2,24	22,808	22,849	22,822	22,893	22,843	22,958	22,876	23,064	1,944
22	2,24	24,133	24,174	24,148	24,218	24,169	24,283	24,201	24,389	1,936
23	2,24	25,323	25,364	25,338	25,407	25,359	25,472	25,391	25,578	1,919
24	2,24	26,642	26,682	26,656	26,726	26,677	26,790	26,710	26,897	1,913
25	2,24	27,836	27,876	27,851	27,919	27,872	27,984	27,905	28,090	1,900
26	2,24	29,149	29,189	29,164	29,232	29,185	29,297	29,218	29,404	1,895
27	2,24	30,347	30,386	30,362	30,430	30,383	30,494	30,416	30,601	1,884
28	2,24	31,655	31,694	31,670	31,738	31,691	31,802	31,724	31,909	1,880
29	2,24	32,856	32,895	32,871	32,938	32,892	33,003	32,926	33,110	1,871
30	2,24	34,160	34,199	34,175	34,242	34,196	34,307	34,230	34,415	1,868
31	2,24	35,364	35,403	35,379	35,446	35,400	35,511	35,434	35,618	1,860
32	2,24	36,664	36,703	36,680	36,747	36,701	36,812	36,735	36,919	1,857
33	2,24	37,871	37,909	37,886	37,953	37,908	38,018	37,942	38,126	1,850
34	2,24	39,168	39,207	39,184	39,250	39,205	39,316	39,240	39,424	1,848
35	2,24	40,377	40,415	40,393	40,459	40,414	40,524	40,449	40,632	1,842
36	2,24	41,672	41,710	41,687	41,754	41,709	41,819	41,744	41,928	1,840
37	2,24	42,883	42,921	42,898	42,965	42,920	43,030	42,955	43,139	1,835
38	2,24	44,175	44,213	44,191	44,257	44,213	44,323	44,248	44,431	1,833
39	2,24	45,388	45,425	45,403	45,470	45,426	45,535	45,461	45,644	1,829
40	2,24	46,678	46,715	46,694	46,760	46,716	46,826	46,751	46,935	1,827
41	2,24	47,892	47,930	47,908	47,974	47,931	48,040	47,966	48,149	1,823
42	2,24	49,180	49,218	49,196	49,262	49,219	49,328	49,254	49,438	1,822
43	2,24	50,396	50,434	50,412	50,478	50,435	50,544	50,471	50,654	1,818
44	2,24	51,683	51,720	51,699	51,764	51,722	51,831	51,757	51,941	1,817
45	2,24	52,900	52,937	52,916	52,982	52,939	53,048	52,975	53,159	1,814
46	2,24	54,185	54,222	54,201	54,267	54,224	54,333	54,260	54,444	1,813
47	2,24	55,403	55,441	55,420	55,485	55,443	55,552	55,479	55,663	1,810
48	2,24	56,687	56,724	56,703	56,769	56,727	56,836	56,763	56,947	1,809
49	2,24	57,907	57,944	57,923	57,989	57,947	58,056	57,983	58,167	1,806
50	2,24	59,189	59,225	59,205	59,271	59,229	59,338	59,266	59,449	1,805
51	2,24	60,410	60,447	60,426	60,492	60,450	60,559	60,487	60,671	1,803
52	2,24	61,690	61,727	61,707	61,772	61,731	61,840	61,768	61,952	1,802
53	2,24	62,912	62,949	62,929	62,994	62,953	63,062	62,991	63,174	1,800
54	2,24	64,192	64,229	64,209	64,274	64,233	64,342	64,270	64,454	1,799
55	2,24	65,415	65,452	65,432	65,497	65,456	65,565	65,494	65,678	1,797
56	2,24	66,693	66,730	66,711	66,776	66,735	66,844	66,773	66,957	1,796
57	2,24	67,917	67,954	67,935	68,000	67,959	68,068	67,997	68,181	1,794
58	2,24	69,195	69,231	69,212	69,277	69,237	69,345	69,275	69,459	1,794
59	2,24	70,420	70,456	70,437	70,502	70,462	70,570	70,500	70,684	1,792
60	2,24	71,696	71,733	71,714	71,778	71,739	71,847	71,777	71,961	1,791
61	2,24	72,922	72,958	72,940	73,004	72,964	73,073	73,003	73,187	1,789
62	2,24	74,197	74,234	74,215	74,280	74,240	74,349	74,279	74,463	1,789
63	2,24	75,424	75,460	75,442	75,506	75,467	75,575	75,506	75,690	1,787
64	2,24	76,699	76,735	76,717	76,781	76,742	76,850	76,781	76,965	1,787
65	2,24	77,926	77,962	77,944	78,008	77,969	78,078	78,008	78,193	1,785
66	2,24	79,200	79,236	79,218	79,282	79,243	79,352	79,283	79,467	1,785
67	2,24	80,428	80,464	80,446	80,510	80,471	80,580	80,511	80,696	1,784
68	2,24	81,701	81,737	81,719	81,784	81,745	81,853	81,785	81,969	1,783
69	2,24	82,929	82,965	82,948	83,012	82,974	83,082	83,013	83,198	1,782
70	2,24	84,202	84,238	84,220	84,285	84,246	84,355	84,286	84,471	1,782
71	2,24	85,431	85,467	85,450	85,514	85,476	85,584	85,516	85,701	1,780
72	2,24	86,703	86,739	86,722	86,786	86,748	86,856	86,788	86,973	1,780
73	2,24	87,933	87,968	87,951	88,015	87,978	88,086	88,018	88,203	1,779
74	2,36	88,834	88,870	88,853	88,918	88,880	88,989	88,920	89,107	1,794
75	2,36	90,064	90,100	90,083	90,148	90,110	90,219	90,151	90,338	1,793
76	2,36	91,335	91,371	91,354	91,419	91,381	91,490	91,422	91,609	1,792
77	2,36	92,566	92,602	92,585	92,650	92,612	92,721	92,654	92,840	1,791
78	2,36	93,837	93,872	93,856	93,920	93,883	93,992	93,924	94,111	1,791
79	2,36	95,068	95,103	95,087	95,151	95,114	95,223	95,156	95,343	1,789
80	2,36	96,338	96,373	96,357	96,421	96,384	96,493	96,426	96,613	1,789
81	2,36	97,569	97,605	97,589	97,653	97,616	97,725	97,658	97,845	1,788
82	2,36	98,839	98,874	98,858	98,923	98,886	98,995	98,928	99,115	1,787
83	2,36	100,071	100,106	100,091	100,155	100,118	100,227	100,160	100,347	1,786
84	2,36	101,340	101,375	101,359	101,424	101,387	101,496	101,430	101,617	1,786
85	2,36	102,572	102,608	102,592	102,656	102,620	102,729	102,662	102,850	1,785
86	2,36	103,841	103,876	103,861	103,925	103,888	103,998	103,931	104,118	1,784
87	2,36	105,074	105,109	105,094	105,158	105,122	105,231	105,165	105,352	1,783
88	2,36	106,342	106,377	106,362	106,426	106,390	106,499	106,433	106,620	1,783
89	2,36	107,575	107,610	107,595	107,659	107,623	107,732	107,667	107,854	1,782
90	2,36	108,843	108,878	108,863	108,927	108,891	109,000	108,934	109,122	1,782
91	2,36	110,077	110,112	110,097	110,161	110,125	110,234	110,168	110,356	1,781
92	2,36	111,344	111,379	111,364	111,428	111,392	111,501	111,436	111,623	1,781
93	2,36	112,578	112,613	112,598	112,662	112,627	112,735	112,670	112,858	1,780
94	2,36	113,845	113,880	113,865	113,929	113,894	114,002	113,938	114,125	1,779
95	2,36	115,079	115,114	115,099	115,163	115,128	115,237	115,172	115,360	1,779
96	2,36	116,345	116,380	116,366	116,430	116,395	116,504	116,439	116,627	1,778
97	2,36	117,580	117,615	117,601	117,664	117,630	117,738	117,674	117,862	1,778
98	2,36	118,846	118,881	118,867	118,931	118,896	119,005	118,941	119,128	1,777
99	2,36	120,081	120,116	120,102	120,166	120,131	120,240	120,176	120,363	1,776
100	2,36	121,347	121,382	121,368	121,431	121,397	121,506	121,442	121,630	1,776

Table 16 — Inspection dimensions external spline, $\alpha = 30°$, $m = 1{,}25$, flat or fillet root, $S_{v\,max} = 1{,}963$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	2,80	12,024	12,048	12,001	12,041	11,967	12,031	11,908	12,015	1,235
7	2,80	13,043	13,067	13,020	13,060	12,984	13,050	12,925	13,033	1,235
8	2,65	14,210	14,236	14,184	14,228	14,146	14,217	14,082	14,198	1,327
9	2,65	15,284	15,310	15,258	15,302	15,219	15,290	15,154	15,272	1,330
10	2,65	16,745	16,772	16,718	16,764	16,678	16,752	16,610	16,732	1,372
11	2,50	17,465	17,493	17,437	17,484	17,395	17,472	17,324	17,451	1,413
12	2,50	18,879	18,907	18,850	18,898	18,806	18,885	18,733	18,864	1,444
13	2,50	20,009	20,037	19,979	20,028	19,935	20,015	19,861	19,993	1,448
14	2,50	21,395	21,424	21,365	21,414	21,319	21,401	21,244	21,379	1,472
15	2,50	22,541	22,570	22,511	22,561	22,465	22,547	22,388	22,525	1,476
16	2,50	23,908	23,937	23,876	23,927	23,830	23,913	23,752	23,890	1,495
17	2,50	25,066	25,096	25,035	25,086	24,988	25,072	24,909	25,049	1,498
18	2,50	26,418	26,448	26,386	26,438	26,338	26,423	26,258	26,400	1,514
19	2,50	27,587	27,617	27,554	27,606	27,506	27,591	27,425	27,568	1,517
20	2,50	28,927	28,957	28,894	28,947	28,845	28,931	28,762	28,907	1,530
21	2,50	30,103	30,134	30,070	30,123	30,021	30,108	29,937	30,083	1,533
22	2,50	31,434	31,465	31,401	31,454	31,350	31,438	31,266	31,413	1,544
23	2,50	32,617	32,648	32,583	32,637	32,533	32,621	32,448	32,596	1,547
24	2,36	33,550	33,581	33,515	33,570	33,463	33,553	33,375	33,527	1,586
25	2,36	34,737	34,769	34,702	34,758	34,650	34,741	34,562	34,714	1,587
26	2,36	36,053	36,085	36,018	36,073	35,965	36,056	35,876	36,030	1,595
27	2,36	37,246	37,278	37,210	37,266	37,157	37,249	37,067	37,222	1,597
28	2,36	38,556	38,589	38,520	38,576	38,467	38,559	38,376	38,532	1,603
29	2,36	39,753	39,785	39,717	39,773	39,662	39,755	39,572	39,728	1,605
30	2,36	41,059	41,092	41,023	41,079	40,968	41,061	40,876	41,033	1,611
31	2,36	42,259	42,291	42,222	42,279	42,167	42,261	42,075	42,233	1,612
32	2,36	43,561	43,594	43,525	43,581	43,469	43,563	43,376	43,535	1,617
33	2,36	44,764	44,797	44,727	44,784	44,672	44,766	44,578	44,737	1,619
34	2,36	46,064	46,096	46,026	46,083	45,970	46,065	45,876	46,036	1,623
35	2,36	47,269	47,302	47,232	47,289	47,175	47,270	47,081	47,241	1,624
36	2,36	48,565	48,598	48,528	48,585	48,471	48,566	48,375	48,536	1,629
37	2,36	49,774	49,806	49,736	49,793	49,678	49,774	49,583	49,744	1,630
38	2,36	51,067	51,100	51,029	51,086	50,971	51,067	50,875	51,037	1,634
39	2,36	52,277	52,310	52,239	52,296	52,181	52,277	52,084	52,247	1,635
40	2,36	53,569	53,601	53,530	53,588	53,472	53,568	53,374	53,537	1,638
41	2,36	54,781	54,814	54,742	54,800	54,683	54,780	54,586	54,749	1,639
42	2,36	56,070	56,103	56,031	56,089	55,972	56,069	55,874	56,038	1,642
43	2,36	57,284	57,317	57,245	57,303	57,186	57,283	57,087	57,251	1,643
44	2,36	58,571	58,604	58,532	58,590	58,472	58,570	58,373	58,538	1,646
45	2,36	59,787	59,820	59,747	59,805	59,687	59,785	59,588	59,753	1,647
46	2,36	61,072	61,105	61,032	61,091	60,972	61,070	60,872	61,038	1,649
47	2,36	62,289	62,322	62,249	62,308	62,189	62,287	62,088	62,254	1,650
48	2,36	63,573	63,606	63,533	63,591	63,472	63,571	63,371	63,538	1,652
49	2,36	64,791	64,824	64,751	64,810	64,690	64,789	64,589	64,756	1,653
50	2,36	66,074	66,107	66,033	66,092	65,972	66,071	65,871	66,038	1,655
51	2,36	67,293	67,327	67,253	67,311	67,192	67,290	67,089	67,257	1,656
52	2,36	68,575	68,608	68,534	68,593	68,472	68,571	68,370	68,538	1,658
53	2,36	69,795	69,829	69,754	69,813	69,693	69,792	69,590	69,758	1,659
54	2,36	71,075	71,109	71,034	71,093	70,972	71,071	70,869	71,037	1,661
55	2,36	72,297	72,330	72,256	72,315	72,194	72,293	72,090	72,259	1,661
56	2,36	73,576	73,609	73,534	73,594	73,472	73,571	73,368	73,537	1,663
57	2,36	74,799	74,832	74,757	74,816	74,695	74,794	74,590	74,759	1,664
58	2,36	76,077	76,110	76,035	76,094	75,972	76,072	75,867	76,037	1,665
59	2,36	77,300	77,333	77,258	77,317	77,195	77,295	77,090	77,260	1,666
60	2,36	78,577	78,610	78,535	78,594	78,472	78,572	78,366	78,536	1,668
61	2,36	79,802	79,835	79,759	79,819	79,696	79,796	79,590	79,761	1,668
62	2,36	81,078	81,111	81,035	81,094	80,972	81,072	80,865	81,036	1,670
63	2,36	82,303	82,336	82,260	82,320	82,197	82,297	82,090	82,261	1,670
64	2,36	83,578	83,611	83,535	83,595	83,471	83,572	83,364	83,536	1,671
65	2,36	84,804	84,837	84,761	84,821	84,697	84,797	84,590	84,761	1,672
66	2,36	86,078	86,112	86,035	86,095	85,971	86,071	85,863	86,035	1,673
67	2,36	87,305	87,338	87,262	87,322	87,197	87,298	87,089	87,262	1,674
68	2,36	88,579	88,612	88,536	88,595	88,471	88,571	88,362	88,535	1,675
69	2,36	89,806	89,839	89,763	89,822	89,698	89,799	89,589	89,762	1,675
70	2,36	91,079	91,112	91,036	91,095	90,970	91,071	90,861	91,034	1,676
71	2,36	92,307	92,340	92,264	92,323	92,198	92,299	92,089	92,262	1,677
72	2,36	93,579	93,612	93,536	93,595	93,470	93,571	93,360	93,534	1,678
73	2,36	94,808	94,841	94,764	94,824	94,698	94,800	94,588	94,762	1,678
74	2,36	96,080	96,113	96,036	96,095	95,970	96,071	95,859	96,033	1,679
75	2,36	97,309	97,342	97,265	97,324	97,199	97,300	97,088	97,262	1,680
76	2,36	98,580	98,613	98,536	98,595	98,469	98,571	98,358	98,532	1,681
77	2,36	99,810	99,843	99,765	99,825	99,699	99,800	99,587	99,762	1,681
78	2,36	101,080	101,113	101,036	101,095	100,969	101,070	100,857	101,032	1,682
79	2,36	102,310	102,343	102,266	102,326	102,199	102,300	102,087	102,262	1,682
80	2,36	103,580	103,613	103,536	103,595	103,468	103,570	103,356	103,531	1,683
81	2,36	104,811	104,844	104,766	104,826	104,699	104,801	104,586	104,762	1,683
82	2,36	106,080	106,113	106,035	106,095	105,968	106,070	105,855	106,031	1,684
83	2,36	107,312	107,345	107,267	107,326	107,199	107,301	107,086	107,261	1,685
84	2,36	108,581	108,613	108,535	108,595	108,468	108,570	108,354	108,530	1,685
85	2,36	109,812	109,845	109,767	109,827	109,699	109,801	109,585	109,761	1,686
86	2,36	111,081	111,114	111,035	111,095	110,967	111,069	110,853	111,029	1,687
87	2,36	112,313	112,346	112,267	112,327	112,199	112,301	112,085	112,261	1,687
88	2,36	113,581	113,614	113,535	113,595	113,467	113,569	113,352	113,529	1,688
89	2,36	114,813	114,846	114,768	114,827	114,699	114,801	114,584	114,761	1,688
90	2,36	116,081	116,114	116,035	116,095	115,966	116,069	115,851	116,028	1,689
91	2,36	117,314	117,347	117,268	117,328	117,199	117,301	117,084	117,260	1,689
92	2,36	118,581	118,614	118,535	118,595	118,466	118,568	118,350	118,527	1,689
93	2,36	119,814	119,847	119,768	119,828	119,699	119,801	119,583	119,760	1,690
94	2,36	121,081	121,114	121,035	121,095	120,965	121,068	120,849	121,027	1,690
95	2,36	122,315	122,347	122,268	122,328	122,199	122,301	122,082	122,260	1,691
96	2,36	123,581	123,614	123,535	123,595	123,465	123,568	123,348	123,526	1,691
97	2,36	124,815	124,848	124,769	124,828	124,699	124,801	124,582	124,759	1,691
98	2,36	126,081	126,114	126,035	126,094	125,964	126,067	125,847	126,025	1,692
99	2,36	127,316	127,348	127,269	127,329	127,198	127,301	127,081	127,259	1,692
100	2,36	128,581	128,614	128,534	128,594	128,464	128,567	128,346	128,524	1,693

5.5 30° pressure angle, module 1,5

Table 17 — Geometry internal spline, $\alpha = 30°$, $m = 1{,}5$, flat and fillet root, $E_{v\,min} = 2{,}356$

z	D	D_b	$D_{ei\,max}$ Fillet root	$D_{ei\,max}$ Flat	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
							4H	5H	6H	7H
6	9,00	7,7942	11,93	11,48	10,80	8,15	2,389	2,410	2,440	2,490
7	10,50	9,0933	13,44	12,99	12,30	9,54	2,390	2,410	2,441	2,492
8	12,00	10,3923	14,94	14,49	13,80	10,97	2,390	2,411	2,442	2,494
9	13,50	11,6913	16,44	15,99	15,30	12,41	2,391	2,412	2,443	2,496
10	15,00	12,9904	17,94	17,49	16,80	13,86	2,391	2,412	2,444	2,497
11	16,50	14,2894	19,45	19,00	18,30	15,33	2,392	2,413	2,445	2,499
12	18,00	15,5885	20,95	20,50	19,80	16,80	2,392	2,414	2,446	2,500
13	19,50	16,8875	22,45	22,00	21,30	18,27	2,392	2,414	2,447	2,501
14	21,00	18,1865	23,95	23,50	22,80	19,75	2,393	2,415	2,448	2,503
15	22,50	19,4856	25,46	25,01	24,30	21,23	2,393	2,415	2,448	2,504
16	24,00	20,7846	26,96	26,51	25,80	22,72	2,393	2,416	2,449	2,505
17	25,50	22,0836	28,46	28,01	27,30	24,20	2,394	2,416	2,450	2,506
18	27,00	23,3827	29,96	29,51	28,80	25,69	2,394	2,417	2,451	2,507
19	28,50	24,6817	31,46	31,01	30,30	27,18	2,394	2,417	2,451	2,508
20	30,00	25,9808	32,97	32,52	31,80	28,67	2,394	2,417	2,452	2,509
21	31,50	27,2798	34,47	34,02	33,30	30,16	2,395	2,418	2,452	2,510
22	33,00	28,5788	35,97	35,52	34,80	31,66	2,395	2,418	2,453	2,511
23	34,50	29,8779	37,47	37,02	36,30	33,15	2,395	2,418	2,454	2,512
24	36,00	31,1769	38,97	38,52	37,80	34,64	2,395	2,419	2,454	2,513
25	37,50	32,4760	40,47	40,02	39,30	36,14	2,395	2,419	2,455	2,514
26	39,00	33,7750	41,98	41,53	40,80	37,63	2,396	2,420	2,455	2,515
27	40,50	35,0740	43,48	43,03	42,30	39,13	2,396	2,420	2,456	2,516
28	42,00	36,3731	44,98	44,53	43,80	40,62	2,396	2,420	2,456	2,516
29	43,50	37,6721	46,48	46,03	45,30	42,12	2,396	2,420	2,457	2,517
30	45,00	38,9711	47,98	47,53	46,80	43,61	2,397	2,421	2,457	2,518
31	46,50	40,2702	49,48	49,03	48,30	45,11	2,397	2,421	2,458	2,519
32	48,00	41,5692	50,98	50,53	49,80	46,61	2,397	2,421	2,458	2,520
33	49,50	42,8683	52,48	52,03	51,30	48,10	2,397	2,422	2,459	2,520
34	51,00	44,1673	53,99	53,54	52,80	49,60	2,397	2,422	2,459	2,521
35	52,50	45,4663	55,49	55,04	54,30	51,10	2,397	2,422	2,460	2,522
36	54,00	46,7654	56,99	56,54	55,80	52,59	2,398	2,423	2,460	2,522
37	55,50	48,0644	58,49	58,04	57,30	54,09	2,398	2,423	2,460	2,523
38	57,00	49,3634	59,99	59,54	58,80	55,59	2,398	2,423	2,461	2,524
39	58,50	50,6625	61,49	61,04	60,30	57,09	2,398	2,423	2,461	2,524
40	60,00	51,9615	62,99	62,54	61,80	58,58	2,398	2,424	2,462	2,525
41	61,50	53,2606	64,49	64,04	63,30	60,08	2,398	2,424	2,462	2,526
42	63,00	54,5596	66,00	65,55	64,80	61,58	2,399	2,424	2,462	2,526
43	64,50	55,8586	67,50	67,05	66,30	63,08	2,399	2,424	2,463	2,527
44	66,00	57,1577	69,00	68,55	67,80	64,58	2,399	2,425	2,463	2,528
45	67,50	58,4567	70,50	70,05	69,30	66,07	2,399	2,425	2,464	2,528
46	69,00	59,7558	72,00	71,55	70,80	67,57	2,399	2,425	2,464	2,529
47	70,50	61,0548	73,50	73,05	72,30	69,07	2,399	2,425	2,464	2,529
48	72,00	62,3538	75,00	74,55	73,80	70,57	2,399	2,426	2,465	2,530
49	73,50	63,6529	76,50	76,05	75,30	72,07	2,400	2,426	2,465	2,531
50	75,00	64,9519	78,00	77,55	76,80	73,57	2,400	2,426	2,465	2,531
51	76,50	66,2509	79,50	79,05	78,30	75,07	2,400	2,426	2,466	2,532
52	78,00	67,5500	81,01	80,56	79,80	76,56	2,400	2,426	2,466	2,532
53	79,50	68,8490	82,51	82,06	81,30	78,06	2,400	2,427	2,466	2,533
54	81,00	70,1481	84,01	83,56	82,80	79,56	2,400	2,427	2,467	2,533
55	82,50	71,4471	85,51	85,06	84,30	81,06	2,400	2,427	2,467	2,534
56	84,00	72,7461	87,01	86,56	85,80	82,56	2,401	2,427	2,467	2,534
57	85,50	74,0452	88,51	88,06	87,30	84,06	2,401	2,428	2,468	2,535
58	87,00	75,3442	90,01	89,56	88,80	85,56	2,401	2,428	2,468	2,535
59	88,50	76,6432	91,51	91,06	90,30	87,06	2,401	2,428	2,468	2,536
60	90,00	77,9423	93,01	92,56	91,80	88,56	2,401	2,428	2,469	2,536
61	91,50	79,2413	94,51	94,06	93,30	90,05	2,401	2,428	2,469	2,537
62	93,00	80,5404	96,01	95,56	94,80	91,55	2,401	2,429	2,469	2,537
63	94,50	81,8394	97,52	97,07	96,30	93,05	2,401	2,429	2,470	2,538
64	96,00	83,1384	99,02	98,57	97,80	94,55	2,402	2,429	2,470	2,538
65	97,50	84,4375	100,52	100,07	99,30	96,05	2,402	2,429	2,470	2,539
66	99,00	85,7365	102,02	101,57	100,80	97,55	2,402	2,429	2,471	2,539
67	100,50	87,0356	103,52	103,07	102,30	99,05	2,402	2,430	2,471	2,540
68	102,00	88,3346	105,02	104,57	103,80	100,55	2,402	2,430	2,471	2,540
69	103,50	89,6336	106,52	106,07	105,30	102,05	2,402	2,430	2,472	2,541
70	105,00	90,9327	108,02	107,57	106,80	103,55	2,402	2,430	2,472	2,541
71	106,50	92,2317	109,52	109,07	108,30	105,05	2,402	2,430	2,472	2,542
72	108,00	93,5307	111,02	110,57	109,80	106,55	2,403	2,430	2,472	2,542
73	109,50	94,8298	112,52	112,07	111,30	108,05	2,403	2,431	2,473	2,543
74	111,00	96,1288	114,02	113,57	112,80	109,54	2,403	2,431	2,473	2,543
75	112,50	97,4279	115,52	115,07	114,30	111,04	2,403	2,431	2,473	2,544
76	114,00	98,7269	117,03	116,58	115,80	112,54	2,403	2,431	2,474	2,544
77	115,50	100,0259	118,53	118,08	117,30	114,04	2,403	2,431	2,474	2,544
78	117,00	101,3250	120,03	119,58	118,80	115,54	2,403	2,432	2,474	2,545
79	118,50	102,6240	121,53	121,08	120,30	117,04	2,403	2,432	2,474	2,545
80	120,00	103,9230	123,03	122,58	121,80	118,54	2,403	2,432	2,475	2,546
81	121,50	105,2221	124,53	124,08	123,30	120,04	2,404	2,432	2,475	2,546
82	123,00	106,5211	126,03	125,58	124,80	121,54	2,404	2,432	2,475	2,547
83	124,50	107,8202	127,53	127,08	126,30	123,04	2,404	2,432	2,475	2,547
84	126,00	109,1192	129,03	128,58	127,80	124,54	2,404	2,433	2,476	2,547
85	127,50	110,4182	130,53	130,08	129,30	126,04	2,404	2,433	2,476	2,548
86	129,00	111,7173	132,03	131,58	130,80	127,54	2,404	2,433	2,476	2,548
87	130,50	113,0163	133,53	133,08	132,30	129,04	2,404	2,433	2,476	2,549
88	132,00	114,3154	135,03	134,58	133,80	130,54	2,404	2,433	2,477	2,549
89	133,50	115,6144	136,54	136,09	135,30	132,04	2,404	2,433	2,477	2,550
90	135,00	116,9134	138,04	137,59	136,80	133,54	2,404	2,434	2,477	2,550
91	136,50	118,2125	139,54	139,09	138,30	135,04	2,405	2,434	2,477	2,550
92	138,00	119,5115	141,04	140,59	139,80	136,54	2,405	2,434	2,478	2,551
93	139,50	120,8105	142,54	142,09	141,30	138,04	2,405	2,434	2,478	2,551
94	141,00	122,1096	144,04	143,59	142,80	139,53	2,405	2,434	2,478	2,552
95	142,50	123,4086	145,54	145,09	144,30	141,03	2,405	2,434	2,478	2,552
96	144,00	124,7077	147,04	146,59	145,80	142,53	2,405	2,435	2,479	2,552
97	145,50	126,0067	148,54	148,09	147,30	144,03	2,405	2,435	2,479	2,553
98	147,00	127,3057	150,04	149,59	148,80	145,53	2,405	2,435	2,479	2,553
99	148,50	128,6048	151,54	151,09	150,30	147,03	2,405	2,435	2,479	2,553
100	150,00	129,9038	153,04	152,59	151,80	148,53	2,405	2,435	2,480	2,554

Table 18 — Geometry external spline, $\alpha = 30°$, $m = 1{,}5$, flat and fillet root, $S_{v\,ma} = 2{,}356$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$ Fillet root	$D_{ie\,min}$ Flat	S_{min}			
							4h	5h	6h	7h
6	9,00	7,7942	10,50	7,85	6,07	6,52	2,323	2,302	2,272	2,222
7	10,50	9,0933	12,00	9,24	7,56	8,01	2,322	2,302	2,271	2,220
8	12,00	10,3923	13,50	10,67	9,06	9,51	2,322	2,301	2,270	2,218
9	13,50	11,6913	15,00	12,11	10,56	11,01	2,321	2,300	2,269	2,216
10	15,00	12,9904	16,50	13,56	12,06	12,51	2,321	2,300	2,268	2,215
11	16,50	14,2894	18,00	15,03	13,55	14,00	2,320	2,299	2,267	2,213
12	18,00	15,5885	19,50	16,50	15,05	15,50	2,320	2,298	2,266	2,212
13	19,50	16,8875	21,00	17,97	16,55	17,00	2,320	2,298	2,265	2,211
14	21,00	18,1865	22,50	19,45	18,05	18,50	2,319	2,297	2,264	2,209
15	22,50	19,4856	24,00	20,93	19,54	19,99	2,319	2,297	2,264	2,208
16	24,00	20,7846	25,50	22,42	21,04	21,49	2,319	2,296	2,263	2,207
17	25,50	22,0836	27,00	23,90	22,54	22,99	2,318	2,296	2,262	2,206
18	27,00	23,3827	28,50	25,39	24,04	24,49	2,318	2,295	2,261	2,205
19	28,50	24,6817	30,00	26,88	25,54	25,99	2,318	2,295	2,261	2,204
20	30,00	25,9808	31,50	28,37	27,03	27,48	2,318	2,295	2,260	2,203
21	31,50	27,2798	33,00	29,86	28,53	28,98	2,317	2,294	2,260	2,202
22	33,00	28,5788	34,50	31,36	30,03	30,48	2,317	2,294	2,259	2,201
23	34,50	29,8779	36,00	32,85	31,53	31,98	2,317	2,294	2,258	2,200
24	36,00	31,1769	37,50	34,34	33,03	33,48	2,317	2,293	2,258	2,199
25	37,50	32,4760	39,00	35,84	34,53	34,98	2,317	2,293	2,257	2,198
26	39,00	33,7750	40,50	37,33	36,02	36,47	2,316	2,292	2,257	2,197
27	40,50	35,0740	42,00	38,83	37,52	37,97	2,316	2,292	2,256	2,196
28	42,00	36,3731	43,50	40,32	39,02	39,47	2,316	2,292	2,256	2,196
29	43,50	37,6721	45,00	41,82	40,52	40,97	2,316	2,292	2,255	2,195
30	45,00	38,9711	46,50	43,31	42,02	42,47	2,315	2,291	2,255	2,194
31	46,50	40,2702	48,00	44,81	43,52	43,97	2,315	2,291	2,254	2,193
32	48,00	41,5692	49,50	46,31	45,02	45,47	2,315	2,291	2,254	2,192
33	49,50	42,8683	51,00	47,80	46,52	46,97	2,315	2,290	2,253	2,192
34	51,00	44,1673	52,50	49,30	48,01	48,46	2,315	2,290	2,253	2,191
35	52,50	45,4663	54,00	50,80	49,51	49,96	2,315	2,290	2,252	2,190
36	54,00	46,7654	55,50	52,29	51,01	51,46	2,314	2,289	2,252	2,190
37	55,50	48,0644	57,00	53,79	52,51	52,96	2,314	2,289	2,252	2,189
38	57,00	49,3634	58,50	55,29	54,01	54,46	2,314	2,289	2,251	2,188
39	58,50	50,6625	60,00	56,79	55,51	55,96	2,314	2,289	2,251	2,188
40	60,00	51,9615	61,50	58,28	57,01	57,46	2,314	2,288	2,250	2,187
41	61,50	53,2606	63,00	59,78	58,51	58,96	2,314	2,288	2,250	2,186
42	63,00	54,5596	64,50	61,28	60,00	60,45	2,313	2,288	2,250	2,186
43	64,50	55,8586	66,00	62,78	61,50	61,95	2,313	2,288	2,249	2,185
44	66,00	57,1577	67,50	64,28	63,00	63,45	2,313	2,287	2,249	2,184
45	67,50	58,4567	69,00	65,77	64,50	64,95	2,313	2,287	2,248	2,184
46	69,00	59,7558	70,50	67,27	66,00	66,45	2,313	2,287	2,248	2,183
47	70,50	61,0548	72,00	68,77	67,50	67,95	2,313	2,287	2,248	2,183
48	72,00	62,3538	73,50	70,27	69,00	69,45	2,313	2,286	2,247	2,182
49	73,50	63,6529	75,00	71,77	70,50	70,95	2,312	2,286	2,247	2,181
50	75,00	64,9519	76,50	73,27	72,00	72,45	2,312	2,286	2,247	2,181
51	76,50	66,2509	78,00	74,77	73,50	73,95	2,312	2,286	2,246	2,180
52	78,00	67,5500	79,50	76,26	74,99	75,44	2,312	2,286	2,246	2,180
53	79,50	68,8490	81,00	77,76	76,49	76,94	2,312	2,285	2,246	2,179
54	81,00	70,1481	82,50	79,26	77,99	78,44	2,312	2,285	2,245	2,179
55	82,50	71,4471	84,00	80,76	79,49	79,94	2,312	2,285	2,245	2,178
56	84,00	72,7461	85,50	82,26	80,99	81,44	2,311	2,285	2,245	2,178
57	85,50	74,0452	87,00	83,76	82,49	82,94	2,311	2,284	2,244	2,177
58	87,00	75,3442	88,50	85,26	83,99	84,44	2,311	2,284	2,244	2,177
59	88,50	76,6432	90,00	86,76	85,49	85,94	2,311	2,284	2,244	2,176
60	90,00	77,9423	91,50	88,26	86,99	87,44	2,311	2,284	2,243	2,176
61	91,50	79,2413	93,00	89,75	88,49	88,94	2,311	2,284	2,243	2,175
62	93,00	80,5404	94,50	91,25	89,99	90,44	2,311	2,283	2,243	2,175
63	94,50	81,8394	96,00	92,75	91,48	91,93	2,311	2,283	2,242	2,174
64	96,00	83,1384	97,50	94,25	92,98	93,43	2,310	2,283	2,242	2,174
65	97,50	84,4375	99,00	95,75	94,48	94,93	2,310	2,283	2,242	2,173
66	99,00	85,7365	100,50	97,25	95,98	96,43	2,310	2,283	2,241	2,173
67	100,50	87,0356	102,00	98,75	97,48	97,93	2,310	2,282	2,241	2,172
68	102,00	88,3346	103,50	100,25	98,98	99,43	2,310	2,282	2,241	2,172
69	103,50	89,6336	105,00	101,75	100,48	100,93	2,310	2,282	2,240	2,171
70	105,00	90,9327	106,50	103,25	101,98	102,43	2,310	2,282	2,240	2,171
71	106,50	92,2317	108,00	104,75	103,48	103,93	2,310	2,282	2,240	2,170
72	108,00	93,5307	109,50	106,25	104,98	105,43	2,309	2,282	2,240	2,170
73	109,50	94,8298	111,00	107,75	106,48	106,93	2,309	2,281	2,239	2,169
74	111,00	96,1288	112,50	109,24	107,98	108,43	2,309	2,281	2,239	2,169
75	112,50	97,4279	114,00	110,74	109,48	109,93	2,309	2,281	2,239	2,168
76	114,00	98,7269	115,50	112,24	110,97	111,42	2,309	2,281	2,238	2,168
77	115,50	100,0259	117,00	113,74	112,47	112,92	2,309	2,281	2,238	2,168
78	117,00	101,3250	118,50	115,24	113,97	114,42	2,309	2,280	2,238	2,167
79	118,50	102,6240	120,00	116,74	115,47	115,92	2,309	2,280	2,238	2,167
80	120,00	103,9230	121,50	118,24	116,97	117,42	2,309	2,280	2,237	2,166
81	121,50	105,2221	123,00	119,74	118,47	118,92	2,308	2,280	2,237	2,166
82	123,00	106,5211	124,50	121,24	119,97	120,42	2,308	2,280	2,237	2,165
83	124,50	107,8202	126,00	122,74	121,47	121,92	2,308	2,280	2,237	2,165
84	126,00	109,1192	127,50	124,24	122,97	123,42	2,308	2,279	2,236	2,165
85	127,50	110,4182	129,00	125,74	124,47	124,92	2,308	2,279	2,236	2,164
86	129,00	111,7173	130,50	127,24	125,97	126,42	2,308	2,279	2,236	2,164
87	130,50	113,0163	132,00	128,74	127,47	127,92	2,308	2,279	2,236	2,163
88	132,00	114,3154	133,50	130,24	128,97	129,42	2,308	2,279	2,235	2,163
89	133,50	115,6144	135,00	131,74	130,46	130,91	2,308	2,279	2,235	2,162
90	135,00	116,9134	136,50	133,24	131,96	132,41	2,308	2,278	2,235	2,162
91	136,50	118,2125	138,00	134,74	133,46	133,91	2,307	2,278	2,235	2,162
92	138,00	119,5115	139,50	136,24	134,96	135,41	2,307	2,278	2,234	2,161
93	139,50	120,8105	141,00	137,74	136,46	136,91	2,307	2,278	2,234	2,161
94	141,00	122,1096	142,50	139,23	137,96	138,41	2,307	2,278	2,234	2,160
95	142,50	123,4086	144,00	140,73	139,46	139,91	2,307	2,278	2,234	2,160
96	144,00	124,7077	145,50	142,23	140,96	141,41	2,307	2,277	2,233	2,160
97	145,50	126,0067	147,00	143,73	142,46	142,91	2,307	2,277	2,233	2,159
98	147,00	127,3057	148,50	145,23	143,96	144,41	2,307	2,277	2,233	2,159
99	148,50	128,6048	150,00	146,73	145,46	145,91	2,307	2,277	2,233	2,159
100	150,00	129,9038	151,50	148,23	146,96	147,41	2,307	2,277	2,232	2,158

Table 19 — Inspection dimensions internal spine, $\alpha = 30°$, $m = 1{,}5$, flat or fillet root, $E_{v\,min} = 2{,}356$

z	D_{Ri}	Measurement over balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—	—
8	2,50	8,423	8,481	8,441	8,536	8,465	8,613	8,504	8,735	2,279
9	2,50	9,771	9,823	9,787	9,872	9,809	9,944	9,844	10,059	2,135
10	2,65	10,877	10,941	10,896	11,002	10,925	11,089	10,969	11,224	2,466
11	2,65	12,276	12,333	12,294	12,387	12,319	12,467	12,358	12,593	2,299
12	2,65	13,964	14,017	13,981	14,070	14,005	14,146	14,042	14,269	2,228
13	2,65	15,357	15,407	15,373	15,457	15,396	15,531	15,432	15,650	2,144
14	2,65	17,008	17,057	17,024	17,106	17,047	17,179	17,082	17,297	2,109
15	2,65	18,408	18,455	18,423	18,503	18,445	18,574	18,480	18,689	2,057
16	2,65	20,036	20,083	20,052	20,130	20,073	20,201	20,108	20,316	2,036
17	2,65	21,443	21,489	21,459	21,536	21,480	21,605	21,515	21,719	2,001
18	2,65	23,056	23,101	23,071	23,147	23,092	23,217	23,127	23,330	1,987
19	2,65	24,470	24,515	24,486	24,561	24,507	24,630	24,541	24,743	1,961
20	2,65	26,070	26,114	26,085	26,160	26,107	26,229	26,141	26,342	1,951
21	2,65	27,491	27,535	27,507	27,581	27,528	27,649	27,562	27,762	1,932
22	2,65	29,081	29,124	29,096	29,170	29,118	29,239	29,152	29,352	1,925
23	2,65	30,508	30,551	30,524	30,597	30,546	30,665	30,580	30,778	1,909
24	2,65	32,090	32,133	32,106	32,179	32,127	32,247	32,162	32,360	1,904
25	2,65	33,523	33,565	33,538	33,610	33,560	33,679	33,594	33,791	1,891
26	2,65	35,098	35,140	35,113	35,186	35,135	35,254	35,170	35,367	1,887
27	2,65	36,534	36,576	36,550	36,622	36,572	36,690	36,607	36,803	1,876
28	2,65	38,104	38,145	38,120	38,191	38,142	38,260	38,177	38,373	1,873
29	2,65	39,545	39,586	39,560	39,632	39,583	39,700	39,618	39,814	1,864
30	2,65	41,109	41,150	41,125	41,196	41,148	41,265	41,183	41,379	1,861
31	2,65	42,554	42,595	42,570	42,641	42,592	42,709	42,628	42,823	1,854
32	2,65	44,114	44,155	44,130	44,201	44,153	44,270	44,188	44,384	1,851
33	2,65	45,561	45,602	45,578	45,648	45,600	45,717	45,636	45,831	1,845
34	2,80	46,638	46,680	46,655	46,728	46,679	46,798	46,716	46,916	1,886
35	2,80	48,090	48,132	48,107	48,179	48,131	48,250	48,168	48,367	1,879
36	2,80	49,644	49,685	49,661	49,733	49,685	49,804	49,722	49,922	1,876
37	2,80	51,098	51,139	51,115	51,187	51,139	51,258	51,176	51,375	1,869
38	2,80	52,649	52,690	52,666	52,738	52,690	52,809	52,728	52,927	1,866
39	2,80	54,105	54,146	54,123	54,194	54,147	54,265	54,184	54,383	1,860
40	2,80	55,654	55,695	55,671	55,742	55,695	55,814	55,733	55,932	1,858
41	2,80	57,112	57,152	57,129	57,200	57,154	57,272	57,191	57,390	1,853
42	2,80	58,658	58,698	58,675	58,746	58,700	58,818	58,738	58,936	1,851
43	2,80	60,118	60,158	60,135	60,206	60,160	60,278	60,198	60,396	1,846
44	2,80	61,662	61,702	61,679	61,750	61,704	61,822	61,742	61,941	1,844
45	2,80	63,123	63,163	63,141	63,211	63,166	63,283	63,204	63,402	1,840
46	2,80	64,665	64,705	64,683	64,753	64,708	64,825	64,747	64,945	1,838
47	2,80	66,128	66,168	66,146	66,216	66,171	66,288	66,210	66,408	1,835
48	2,80	67,668	67,708	67,686	67,756	67,711	67,829	67,751	67,949	1,833
49	2,80	69,133	69,172	69,151	69,221	69,176	69,293	69,215	69,413	1,830
50	2,80	70,671	70,711	70,689	70,759	70,715	70,832	70,754	70,952	1,828
51	2,80	72,137	72,176	72,155	72,225	72,181	72,298	72,220	72,418	1,825
52	2,80	73,674	73,713	73,692	73,762	73,718	73,835	73,758	73,955	1,824
53	2,80	75,141	75,180	75,159	75,229	75,185	75,302	75,225	75,423	1,821
54	2,80	76,676	76,715	76,695	76,764	76,721	76,837	76,761	76,959	1,820
55	2,80	78,144	78,183	78,163	78,232	78,189	78,306	78,229	78,427	1,817
56	2,80	79,678	79,718	79,697	79,767	79,723	79,840	79,764	79,962	1,816
57	2,80	81,148	81,187	81,166	81,236	81,193	81,309	81,234	81,431	1,814
58	2,80	82,681	82,720	82,700	82,769	82,726	82,842	82,767	82,965	1,813
59	2,80	84,151	84,190	84,170	84,239	84,196	84,313	84,238	84,435	1,811
60	2,80	85,683	85,721	85,702	85,771	85,728	85,845	85,770	85,968	1,810
61	2,80	87,154	87,193	87,173	87,242	87,200	87,316	87,241	87,439	1,808
62	2,80	88,685	88,723	88,704	88,773	88,731	88,847	88,773	88,970	1,807
63	2,80	90,157	90,195	90,176	90,245	90,203	90,319	90,245	90,443	1,805
64	2,80	91,686	91,725	91,706	91,775	91,733	91,849	91,775	91,973	1,804
65	2,80	93,159	93,198	93,179	93,248	93,206	93,322	93,248	93,446	1,802
66	2,80	94,688	94,727	94,708	94,776	94,735	94,851	94,778	94,975	1,802
67	2,80	96,162	96,200	96,181	96,250	96,209	96,325	96,252	96,449	1,800
68	2,80	97,690	97,728	97,710	97,778	97,737	97,853	97,780	97,978	1,799
69	2,80	99,164	99,202	99,184	99,253	99,212	99,328	99,255	99,453	1,798
70	2,80	100,691	100,729	100,711	100,780	100,739	100,855	100,782	100,980	1,797
71	2,80	102,166	102,204	102,186	102,255	102,215	102,330	102,258	102,456	1,795
72	2,80	103,693	103,731	103,713	103,781	103,741	103,857	103,785	103,983	1,795
73	2,80	105,169	105,207	105,189	105,257	105,217	105,333	105,261	105,459	1,793
74	2,80	106,694	106,732	106,715	106,783	106,743	106,859	106,787	106,985	1,793
75	2,80	108,171	108,208	108,191	108,259	108,220	108,335	108,264	108,461	1,792
76	2,80	109,696	109,733	109,716	109,784	109,745	109,860	109,789	109,987	1,791
77	2,80	111,173	111,210	111,193	111,261	111,222	111,337	111,266	111,464	1,790
78	2,80	112,697	112,735	112,718	112,786	112,747	112,862	112,791	112,989	1,789
79	2,80	114,175	114,212	114,195	114,263	114,224	114,340	114,269	114,467	1,788
80	2,80	115,698	115,736	115,719	115,787	115,748	115,864	115,793	115,991	1,788
81	2,80	117,176	117,214	117,197	117,265	117,226	117,342	117,271	117,469	1,787
82	2,80	118,700	118,737	118,720	118,788	118,750	118,865	118,795	118,993	1,786
83	2,80	120,178	120,215	120,199	120,267	120,229	120,344	120,274	120,472	1,785
84	2,80	121,701	121,738	121,722	121,789	121,751	121,867	121,797	121,995	1,785
85	2,80	123,180	123,217	123,201	123,269	123,231	123,346	123,276	123,474	1,784
86	2,80	124,702	124,739	124,723	124,791	124,753	124,868	124,799	124,997	1,783
87	2,80	126,181	126,218	126,203	126,270	126,233	126,348	126,279	126,477	1,782
88	2,80	127,703	127,740	127,724	127,792	127,754	127,870	127,801	127,999	1,782
89	2,80	129,183	129,220	129,204	129,272	129,235	129,350	129,281	129,479	1,781
90	2,80	130,704	130,741	130,726	130,793	130,756	130,871	130,802	131,001	1,781
91	2,80	132,184	132,221	132,206	132,273	132,236	132,351	132,283	132,481	1,780
92	2,80	133,705	133,742	133,727	133,794	133,757	133,872	133,804	134,002	1,780
93	2,80	135,186	135,223	135,208	135,275	135,238	135,353	135,285	135,484	1,779
94	2,80	136,706	136,743	136,728	136,795	136,759	136,874	136,806	137,004	1,778
95	2,80	138,187	138,224	138,209	138,276	138,240	138,355	138,287	138,486	1,778
96	2,80	139,707	139,743	139,729	139,796	139,760	139,875	139,807	140,006	1,777
97	2,80	141,189	141,225	141,211	141,278	141,242	141,357	141,289	141,488	1,777
98	2,80	142,708	142,744	142,730	142,797	142,761	142,876	142,809	143,008	1,776
99	2,80	144,190	144,226	144,212	144,279	144,243	144,358	144,291	144,490	1,776
100	2,80	145,709	145,745	145,731	145,798	145,763	145,877	145,811	146,009	1,775

Table 20 — Inspection dimensions external spline, $\alpha = 30°$, $m = 1{,}5$, flat or fillet root, $S_{v\,max} = 2{,}356$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	3,35	14,410	14,436	14,386	14,429	14,349	14,418	14,287	14,401	1,234
7	3,35	15,633	15,659	15,608	15,651	15,571	15,640	15,508	15,623	1,234
8	3,15	16,982	17,010	16,955	17,002	16,914	16,990	16,846	16,971	1,330
9	3,15	18,271	18,299	18,243	18,291	18,202	18,279	18,132	18,259	1,333
10	3,15	20,023	20,052	19,995	20,044	19,951	20,031	19,879	20,011	1,374
11	3,00	20,964	20,994	20,935	20,985	20,890	20,972	20,815	20,951	1,410
12	3,00	22,661	22,691	22,630	22,682	22,584	22,668	22,506	22,646	1,441
13	3,00	24,017	24,048	23,986	24,038	23,939	24,024	23,860	24,002	1,445
14	3,00	25,680	25,712	25,649	25,702	25,600	25,687	25,520	25,664	1,468
15	3,00	27,056	27,087	27,024	27,077	26,975	27,063	26,894	27,039	1,472
16	3,00	28,696	28,728	28,663	28,717	28,613	28,702	28,530	28,679	1,491
17	3,00	30,087	30,119	30,053	30,108	30,003	30,093	29,919	30,069	1,495
18	3,00	31,709	31,741	31,675	31,730	31,624	31,715	31,538	31,690	1,511
19	3,00	33,111	33,144	33,077	33,132	33,025	33,117	32,939	33,092	1,514
20	3,00	34,719	34,752	34,685	34,741	34,632	34,725	34,545	34,699	1,527
21	3,00	36,131	36,164	36,096	36,153	36,043	36,136	35,955	36,110	1,530
22	3,00	37,728	37,761	37,693	37,750	37,639	37,733	37,550	37,707	1,541
23	3,00	39,148	39,181	39,112	39,169	39,058	39,152	38,968	39,126	1,544
24	3,00	40,736	40,769	40,700	40,757	40,645	40,740	40,554	40,713	1,553
25	3,00	42,162	42,195	42,126	42,183	42,071	42,166	41,979	42,138	1,556
26	3,00	43,743	43,776	43,706	43,764	43,650	43,746	43,557	43,718	1,564
27	3,00	45,174	45,208	45,137	45,195	45,081	45,177	44,988	45,149	1,567
28	3,00	46,748	46,782	46,711	46,770	46,654	46,751	46,560	46,723	1,574
29	3,00	48,185	48,219	48,147	48,206	48,090	48,187	47,995	48,159	1,576
30	3,00	49,754	49,787	49,715	49,774	49,658	49,756	49,562	49,727	1,583
31	3,00	51,194	51,228	51,156	51,215	51,098	51,196	51,001	51,166	1,584
32	3,00	52,758	52,792	52,719	52,779	52,661	52,760	52,564	52,730	1,590
33	2,80	53,635	53,669	53,595	53,655	53,535	53,636	53,436	53,605	1,621
34	2,80	55,193	55,228	55,153	55,214	55,093	55,194	54,993	55,164	1,625
35	2,80	56,640	56,675	56,600	56,661	56,540	56,641	56,439	56,610	1,626
36	2,80	58,195	58,230	58,155	58,216	58,094	58,196	57,993	58,164	1,631
37	2,80	59,645	59,680	59,605	59,666	59,544	59,645	59,442	59,614	1,632
38	2,80	61,197	61,232	61,156	61,218	61,095	61,197	60,992	61,165	1,635
39	2,80	62,650	62,685	62,609	62,670	62,547	62,649	62,444	62,617	1,636
40	2,80	64,199	64,234	64,158	64,219	64,096	64,198	63,992	64,166	1,640
41	2,80	65,654	65,689	65,612	65,674	65,550	65,653	65,446	65,620	1,641
42	2,80	67,200	67,236	67,159	67,220	67,096	67,199	66,991	67,166	1,644
43	2,80	68,657	68,692	68,615	68,677	68,552	68,656	68,447	68,622	1,645
44	2,80	70,202	70,237	70,160	70,222	70,096	70,200	69,991	70,166	1,647
45	2,80	71,660	71,696	71,618	71,680	71,555	71,658	71,448	71,624	1,648
46	2,80	73,203	73,238	73,161	73,223	73,097	73,201	72,990	73,166	1,651
47	2,80	74,663	74,699	74,621	74,683	74,557	74,661	74,450	74,626	1,651
48	2,80	76,204	76,239	76,161	76,223	76,097	76,201	75,989	76,166	1,654
49	2,80	77,666	77,701	77,623	77,685	77,558	77,663	77,450	77,628	1,655
50	2,80	79,205	79,240	79,162	79,224	79,097	79,202	78,988	79,166	1,657
51	2,80	80,669	80,704	80,625	80,688	80,560	80,665	80,451	80,629	1,657
52	2,80	82,206	82,241	82,162	82,225	82,097	82,202	81,987	82,166	1,660
53	2,80	83,671	83,706	83,627	83,690	83,561	83,666	83,452	83,630	1,660
54	2,80	85,207	85,242	85,163	85,225	85,097	85,202	84,987	85,166	1,662
55	2,80	86,673	86,708	86,629	86,691	86,563	86,668	86,452	86,632	1,663
56	2,80	88,207	88,243	88,163	88,226	88,097	88,202	87,986	88,166	1,664
57	2,80	89,675	89,710	89,630	89,693	89,564	89,669	89,452	89,632	1,665
58	2,80	91,208	91,243	91,164	91,226	91,097	91,202	90,985	91,165	1,667
59	2,80	92,677	92,712	92,632	92,695	92,565	92,671	92,452	92,633	1,667
60	2,80	94,209	94,244	94,164	94,227	94,096	94,202	93,984	94,165	1,669
61	2,80	95,678	95,713	95,633	95,696	95,566	95,672	95,452	95,634	1,669
62	2,80	97,209	97,244	97,164	97,227	97,096	97,202	96,983	97,164	1,671
63	2,80	98,680	98,715	98,634	98,697	98,566	98,673	98,452	98,634	1,671
64	2,80	100,210	100,245	100,164	100,227	100,096	100,202	99,982	100,164	1,672
65	2,80	101,681	101,716	101,635	101,698	101,567	101,673	101,452	101,635	1,673
66	2,80	103,210	103,245	103,164	103,227	103,096	103,202	102,981	103,163	1,674
67	2,80	104,682	104,717	104,636	104,699	104,567	104,674	104,452	104,635	1,675
68	2,80	106,211	106,246	106,165	106,228	106,095	106,202	105,980	106,163	1,676
69	2,80	107,684	107,719	107,637	107,700	107,568	107,675	107,452	107,635	1,676
70	2,80	109,211	109,246	109,165	109,228	109,095	109,202	108,979	109,162	1,677
71	2,80	110,685	110,720	110,638	110,701	110,568	110,675	110,452	110,636	1,678
72	2,80	112,211	112,246	112,165	112,228	112,095	112,202	111,978	112,162	1,679
73	2,80	113,686	113,721	113,639	113,702	113,569	113,676	113,451	113,636	1,679
74	2,80	115,212	115,247	115,165	115,228	115,094	115,202	114,977	115,161	1,680
75	2,80	116,687	116,722	116,640	116,703	116,569	116,676	116,451	116,636	1,681
76	2,80	118,212	118,247	118,165	118,228	118,094	118,201	117,975	118,160	1,682
77	2,80	119,688	119,723	119,640	119,704	119,569	119,677	119,451	119,636	1,682
78	2,80	121,212	121,247	121,165	121,228	121,093	121,201	120,974	121,160	1,683
79	2,80	122,689	122,723	122,641	122,704	122,570	122,677	122,450	122,636	1,683
80	2,80	124,212	124,247	124,165	124,228	124,093	124,201	123,973	124,159	1,684
81	2,80	125,689	125,724	125,642	125,705	125,570	125,678	125,450	125,636	1,684
82	2,80	127,213	127,247	127,165	127,228	127,093	127,201	126,972	127,158	1,685
83	2,80	128,690	128,725	128,642	128,705	128,570	128,678	128,449	128,635	1,685
84	2,80	130,213	130,248	130,165	130,228	130,092	130,200	129,971	130,158	1,686
85	2,80	131,691	131,726	131,643	131,706	131,570	131,678	131,449	131,635	1,687
86	2,80	133,213	133,248	133,165	133,228	133,092	133,200	132,970	133,157	1,687
87	2,80	134,692	134,726	134,643	134,706	134,570	134,678	134,448	134,635	1,688
88	2,80	136,213	136,248	136,164	136,228	136,091	136,200	135,969	136,156	1,688
89	2,80	137,692	137,727	137,643	137,707	137,570	137,678	137,448	137,635	1,689
90	2,80	139,213	139,248	139,164	139,228	139,091	139,199	138,968	139,156	1,689
91	2,80	140,693	140,727	140,644	140,707	140,570	140,678	140,447	140,635	1,690
92	2,80	142,213	142,248	142,164	142,227	142,090	142,199	141,967	142,155	1,690
93	2,80	143,693	143,728	143,644	143,707	143,570	143,679	143,447	143,634	1,690
94	2,80	145,213	145,248	145,164	145,227	145,090	145,198	144,966	145,154	1,691
95	2,80	146,694	146,728	146,644	146,708	146,570	146,679	146,446	146,634	1,691
96	2,80	148,214	148,248	148,164	148,227	148,089	148,198	147,965	148,153	1,692
97	2,80	149,694	149,729	149,645	149,708	149,570	149,679	149,445	149,634	1,692
98	2,80	151,214	151,248	151,164	151,227	151,089	151,198	150,964	151,153	1,693
99	2,80	152,695	152,729	152,645	152,708	152,570	152,679	152,445	152,633	1,693
100	2,80	154,214	154,248	154,164	154,227	154,088	154,197	153,963	154,152	1,694

5.6 30° pressure angle, module 1,75

Table 21 — Geometry internal spline, $\alpha = 30°$, $m = 1{,}75$, flat and fillet root, $E_{v\,min} = 2{,}749$

z	D	D_b	$D_{ei\,max}$ Fillet root	$D_{ei\,max}$ Flat	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
							4H	5H	6H	7H
6	10,50	9,0933	13,89	13,37	12,60	9,50	2,784	2,805	2,837	2,890
7	12,25	10,6088	15,65	15,12	14,35	11,13	2,785	2,806	2,839	2,892
8	14,00	12,1244	17,40	16,88	16,10	12,79	2,785	2,807	2,840	2,894
9	15,75	13,6399	19,15	18,63	17,85	14,48	2,786	2,808	2,841	2,896
10	17,50	15,1554	20,91	20,38	19,60	16,17	2,786	2,808	2,842	2,898
11	19,25	16,6710	22,66	22,14	21,35	17,88	2,787	2,809	2,843	2,899
12	21,00	18,1865	24,41	23,89	23,10	19,60	2,787	2,810	2,844	2,901
13	22,75	19,7021	26,17	25,64	24,85	21,32	2,787	2,810	2,845	2,902
14	24,50	21,2176	27,92	27,39	26,60	23,04	2,788	2,811	2,846	2,904
15	26,25	22,7332	29,67	29,14	28,35	24,77	2,788	2,811	2,846	2,905
16	28,00	24,2487	31,42	30,90	30,10	26,50	2,788	2,812	2,847	2,906
17	29,75	25,7643	33,17	32,65	31,85	28,24	2,789	2,812	2,848	2,907
18	31,50	27,2798	34,93	34,40	33,60	29,97	2,789	2,813	2,849	2,908
19	33,25	28,7953	36,68	36,15	35,35	31,71	2,789	2,813	2,849	2,910
20	35,00	30,3109	38,43	37,90	37,10	33,45	2,789	2,814	2,850	2,911
21	36,75	31,8264	40,18	39,66	38,85	35,19	2,790	2,814	2,851	2,912
22	38,50	33,3420	41,93	41,41	40,60	36,93	2,790	2,814	2,851	2,913
23	40,25	34,8575	43,69	43,16	42,35	38,67	2,790	2,815	2,852	2,914
24	42,00	36,3731	45,44	44,91	44,10	40,42	2,790	2,815	2,852	2,915
25	43,75	37,8886	47,19	46,66	45,85	42,16	2,791	2,816	2,853	2,915
26	45,50	39,4042	48,94	48,41	47,60	43,90	2,791	2,816	2,854	2,916
27	47,25	40,9197	50,69	50,17	49,35	45,65	2,791	2,816	2,854	2,917
28	49,00	42,4352	52,44	51,92	51,10	47,39	2,791	2,817	2,855	2,918
29	50,75	43,9508	54,19	53,67	52,85	49,14	2,791	2,817	2,855	2,919
30	52,50	45,4663	55,95	55,42	54,60	50,88	2,792	2,817	2,856	2,920
31	54,25	46,9819	57,70	57,17	56,35	52,63	2,792	2,818	2,856	2,921
32	56,00	48,4974	59,45	58,92	58,10	54,37	2,792	2,818	2,857	2,921
33	57,75	50,0130	61,20	60,67	59,85	56,12	2,792	2,818	2,857	2,922
34	59,50	51,5285	62,95	62,43	61,60	57,87	2,792	2,819	2,858	2,923
35	61,25	53,0441	64,70	64,18	63,35	59,61	2,793	2,819	2,858	2,924
36	63,00	54,5596	66,45	65,93	65,10	61,36	2,793	2,819	2,859	2,924
37	64,75	56,0751	68,21	67,68	66,85	63,11	2,793	2,819	2,859	2,925
38	66,50	57,5907	69,96	69,43	68,60	64,85	2,793	2,820	2,860	2,926
39	68,25	59,1062	71,71	71,18	70,35	66,60	2,793	2,820	2,860	2,927
40	70,00	60,6218	73,46	72,93	72,10	68,35	2,794	2,820	2,860	2,927
41	71,75	62,1373	75,21	74,68	73,85	70,09	2,794	2,821	2,861	2,928
42	73,50	63,6529	76,96	76,44	75,60	71,84	2,794	2,821	2,861	2,929
43	75,25	65,1684	78,71	78,19	77,35	73,59	2,794	2,821	2,862	2,929
44	77,00	66,6840	80,46	79,94	79,10	75,34	2,794	2,821	2,862	2,930
45	78,75	68,1995	82,21	81,69	80,85	77,09	2,794	2,822	2,863	2,931
46	80,50	69,7150	83,97	83,44	82,60	78,83	2,795	2,822	2,863	2,931
47	82,25	71,2306	85,72	85,19	84,35	80,58	2,795	2,822	2,863	2,932
48	84,00	72,7461	87,47	86,94	86,10	82,33	2,795	2,822	2,864	2,932
49	85,75	74,2617	89,22	88,69	87,85	84,08	2,795	2,823	2,864	2,933
50	87,50	75,7772	90,97	90,44	89,60	85,83	2,795	2,823	2,864	2,934
51	89,25	77,2928	92,72	92,20	91,35	87,58	2,795	2,823	2,865	2,934
52	91,00	78,8083	94,47	93,95	93,10	89,32	2,795	2,823	2,865	2,935
53	92,75	80,3239	96,22	95,70	94,85	91,07	2,796	2,824	2,866	2,935
54	94,50	81,8394	97,97	97,45	96,60	92,82	2,796	2,824	2,866	2,936
55	96,25	83,3549	99,73	99,20	98,35	94,57	2,796	2,824	2,866	2,937
56	98,00	84,8705	101,48	100,95	100,10	96,32	2,796	2,824	2,867	2,937
57	99,75	86,3860	103,23	102,70	101,85	98,07	2,796	2,825	2,867	2,938
58	101,50	87,9016	104,98	104,45	103,60	99,82	2,796	2,825	2,867	2,938
59	103,25	89,4171	106,73	106,20	105,35	101,57	2,796	2,825	2,868	2,939
60	105,00	90,9327	108,48	107,95	107,10	103,31	2,797	2,825	2,868	2,939
61	106,75	92,4482	110,23	109,71	108,85	105,06	2,797	2,825	2,868	2,940
62	108,50	93,9638	111,98	111,46	110,60	106,81	2,797	2,826	2,869	2,940
63	110,25	95,4793	113,73	113,21	112,35	108,56	2,797	2,826	2,869	2,941
64	112,00	96,9948	115,48	114,96	114,10	110,31	2,797	2,826	2,869	2,942
65	113,75	98,5104	117,23	116,71	115,85	112,06	2,797	2,826	2,870	2,942
66	115,50	100,0259	118,99	118,46	117,60	113,81	2,797	2,826	2,870	2,943
67	117,25	101,5415	120,74	120,21	119,35	115,56	2,798	2,827	2,870	2,943
68	119,00	103,0570	122,49	121,96	121,10	117,31	2,798	2,827	2,871	2,944
69	120,75	104,5726	124,24	123,71	122,85	119,06	2,798	2,827	2,871	2,944
70	122,50	106,0881	125,99	125,46	124,60	120,80	2,798	2,827	2,871	2,945
71	124,25	107,6037	127,74	127,21	126,35	122,55	2,798	2,827	2,872	2,945
72	126,00	109,1192	129,49	128,97	128,10	124,30	2,798	2,828	2,872	2,946
73	127,75	110,6347	131,24	130,72	129,85	126,05	2,798	2,828	2,872	2,946
74	129,50	112,1503	132,99	132,47	131,60	127,80	2,798	2,828	2,872	2,947
75	131,25	113,6658	134,74	134,22	133,35	129,55	2,799	2,828	2,873	2,947
76	133,00	115,1814	136,49	135,97	135,10	131,30	2,799	2,828	2,873	2,948
77	134,75	116,6969	138,24	137,72	136,85	133,05	2,799	2,829	2,873	2,948
78	136,50	118,2125	140,00	139,47	138,60	134,80	2,799	2,829	2,874	2,948
79	138,25	119,7280	141,75	141,22	140,35	136,55	2,799	2,829	2,874	2,949
80	140,00	121,2436	143,50	142,97	142,10	138,30	2,799	2,829	2,874	2,949
81	141,75	122,7591	145,25	144,72	143,85	140,05	2,799	2,829	2,875	2,950
82	143,50	124,2746	147,00	146,47	145,60	141,80	2,799	2,830	2,875	2,950
83	145,25	125,7902	148,75	148,22	147,35	143,55	2,799	2,830	2,875	2,951
84	147,00	127,3057	150,50	149,98	149,10	145,30	2,800	2,830	2,875	2,951
85	148,75	128,8213	152,25	151,73	150,85	147,05	2,800	2,830	2,876	2,952
86	150,50	130,3368	154,00	153,48	152,60	148,79	2,800	2,830	2,876	2,952
87	152,25	131,8524	155,75	155,23	154,35	150,54	2,800	2,830	2,876	2,953
88	154,00	133,3679	157,50	156,98	156,10	152,29	2,800	2,831	2,876	2,953
89	155,75	134,8835	159,25	158,73	157,85	154,04	2,800	2,831	2,877	2,953
90	157,50	136,3990	161,00	160,48	159,60	155,79	2,800	2,831	2,877	2,954
91	159,25	137,9145	162,76	162,23	161,35	157,54	2,800	2,831	2,877	2,954
92	161,00	139,4301	164,51	163,98	163,10	159,29	2,800	2,831	2,878	2,955
93	162,75	140,9456	166,26	165,73	164,85	161,04	2,801	2,831	2,878	2,955
94	164,50	142,4612	168,01	167,48	166,60	162,79	2,801	2,832	2,878	2,956
95	166,25	143,9767	169,76	169,23	168,35	164,54	2,801	2,832	2,878	2,956
96	168,00	145,4923	171,51	170,98	170,10	166,29	2,801	2,832	2,879	2,956
97	169,75	147,0078	173,26	172,73	171,85	168,04	2,801	2,832	2,879	2,957
98	171,50	148,5234	175,01	174,49	173,60	169,79	2,801	2,832	2,879	2,957
99	173,25	150,0389	176,76	176,24	175,35	171,54	2,801	2,832	2,879	2,958
100	175,00	151,5544	178,51	177,99	177,10	173,29	2,801	2,833	2,880	2,958

Table 22 — Geometry external spline, $\alpha = 30°$, $m = 1{,}75$, flat and fillet root, $S_{v\,max} = 2{,}749$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$ Fillet root	$D_{ie\,min}$ Flat	S_{min}			
							4h	5h	6h	7h
6	10,50	9,0933	12,25	9,15	7,11	7,63	2,714	2,693	2,661	2,608
7	12,25	10,6088	14,00	10,78	8,85	9,38	2,713	2,692	2,659	2,606
8	14,00	12,1244	15,75	12,44	10,60	11,12	2,713	2,691	2,658	2,604
9	15,75	13,6399	17,50	14,13	12,35	12,87	2,712	2,690	2,657	2,602
10	17,50	15,1554	19,25	15,82	14,09	14,62	2,712	2,690	2,656	2,600
11	19,25	16,6710	21,00	17,53	15,84	16,36	2,711	2,689	2,655	2,599
12	21,00	18,1865	22,75	19,25	17,59	18,11	2,711	2,688	2,654	2,597
13	22,75	19,7021	24,50	20,97	19,33	19,86	2,711	2,688	2,653	2,596
14	24,50	21,2176	26,25	22,69	21,08	21,61	2,710	2,687	2,652	2,594
15	26,25	22,7332	28,00	24,42	22,83	23,36	2,710	2,687	2,652	2,593
16	28,00	24,2487	29,75	26,15	24,58	25,10	2,710	2,686	2,651	2,592
17	29,75	25,7643	31,50	27,89	26,33	26,85	2,709	2,686	2,650	2,591
18	31,50	27,2798	33,25	29,62	28,07	28,60	2,709	2,685	2,649	2,590
19	33,25	28,7953	35,00	31,36	29,82	30,35	2,709	2,685	2,649	2,588
20	35,00	30,3109	36,75	33,10	31,57	32,10	2,709	2,684	2,648	2,587
21	36,75	31,8264	38,50	34,84	33,32	33,84	2,708	2,684	2,647	2,586
22	38,50	33,3420	40,25	36,58	35,07	35,59	2,708	2,684	2,647	2,585
23	40,25	34,8575	42,00	38,32	36,81	37,34	2,708	2,683	2,646	2,584
24	42,00	36,3731	43,75	40,07	38,56	39,09	2,708	2,683	2,646	2,583
25	43,75	37,8886	45,50	41,81	40,31	40,84	2,707	2,682	2,645	2,583
26	45,50	39,4042	47,25	43,55	42,06	42,59	2,707	2,682	2,644	2,582
27	47,25	40,9197	49,00	45,30	43,81	44,33	2,707	2,682	2,644	2,581
28	49,00	42,4352	50,75	47,04	45,56	46,08	2,707	2,681	2,643	2,580
29	50,75	43,9508	52,50	48,79	47,31	47,83	2,707	2,681	2,643	2,579
30	52,50	45,4663	54,25	50,53	49,05	49,58	2,706	2,681	2,642	2,578
31	54,25	46,9819	56,00	52,28	50,80	51,33	2,706	2,680	2,642	2,577
32	56,00	48,4974	57,75	54,02	52,55	53,08	2,706	2,680	2,641	2,577
33	57,75	50,0130	59,50	55,77	54,30	54,83	2,706	2,680	2,641	2,576
34	59,50	51,5285	61,25	57,52	56,05	56,57	2,706	2,679	2,640	2,575
35	61,25	53,0441	63,00	59,26	57,80	58,32	2,705	2,679	2,640	2,574
36	63,00	54,5596	64,75	61,01	59,55	60,07	2,705	2,679	2,639	2,574
37	64,75	56,0751	66,50	62,76	61,29	61,82	2,705	2,679	2,639	2,573
38	66,50	57,5907	68,25	64,50	63,04	63,57	2,705	2,678	2,638	2,572
39	68,25	59,1062	70,00	66,25	64,79	65,32	2,705	2,678	2,638	2,571
40	70,00	60,6218	71,75	68,00	66,54	67,07	2,704	2,678	2,638	2,571
41	71,75	62,1373	73,50	69,74	68,29	68,82	2,704	2,677	2,637	2,570
42	73,50	63,6529	75,25	71,49	70,04	70,56	2,704	2,677	2,637	2,569
43	75,25	65,1684	77,00	73,24	71,79	72,31	2,704	2,677	2,636	2,569
44	77,00	66,6840	78,75	74,99	73,54	74,06	2,704	2,677	2,636	2,568
45	78,75	68,1995	80,50	76,74	75,29	75,81	2,704	2,676	2,635	2,567
46	80,50	69,7150	82,25	78,48	77,03	77,56	2,703	2,676	2,635	2,567
47	82,25	71,2306	84,00	80,23	78,78	79,31	2,703	2,676	2,635	2,566
48	84,00	72,7461	85,75	81,98	80,53	81,06	2,703	2,676	2,634	2,566
49	85,75	74,2617	87,50	83,73	82,28	82,81	2,703	2,675	2,634	2,565
50	87,50	75,7772	89,25	85,48	84,03	84,56	2,703	2,675	2,634	2,564
51	89,25	77,2928	91,00	87,23	85,78	86,30	2,703	2,675	2,633	2,564
52	91,00	78,8083	92,75	88,97	87,53	88,05	2,703	2,675	2,633	2,563
53	92,75	80,3239	94,50	90,72	89,28	89,80	2,702	2,674	2,632	2,563
54	94,50	81,8394	96,25	92,47	91,03	91,55	2,702	2,674	2,632	2,562
55	96,25	83,3549	98,00	94,22	92,77	93,30	2,702	2,674	2,632	2,561
56	98,00	84,8705	99,75	95,97	94,52	95,05	2,702	2,674	2,631	2,561
57	99,75	86,3860	101,50	97,72	96,27	96,80	2,702	2,673	2,631	2,560
58	101,50	87,9016	103,25	99,47	98,02	98,55	2,702	2,673	2,631	2,560
59	103,25	89,4171	105,00	101,22	99,77	100,30	2,702	2,673	2,630	2,559
60	105,00	90,9327	106,75	102,96	101,52	102,05	2,701	2,673	2,630	2,559
61	106,75	92,4482	108,50	104,71	103,27	103,79	2,701	2,673	2,630	2,558
62	108,50	93,9638	110,25	106,46	105,02	105,54	2,701	2,672	2,629	2,558
63	110,25	95,4793	112,00	108,21	106,77	107,29	2,701	2,672	2,629	2,557
64	112,00	96,9948	113,75	109,96	108,52	109,04	2,701	2,672	2,629	2,556
65	113,75	98,5104	115,50	111,71	110,27	110,79	2,701	2,672	2,628	2,556
66	115,50	100,0259	117,25	113,46	112,01	112,54	2,701	2,672	2,628	2,555
67	117,25	101,5415	119,00	115,21	113,76	114,29	2,700	2,671	2,628	2,555
68	119,00	103,0570	120,75	116,96	115,51	116,04	2,700	2,671	2,627	2,554
69	120,75	104,5726	122,50	118,71	117,26	117,79	2,700	2,671	2,627	2,554
70	122,50	106,0881	124,25	120,45	119,01	119,54	2,700	2,671	2,627	2,553
71	124,25	107,6037	126,00	122,20	120,76	121,29	2,700	2,671	2,626	2,553
72	126,00	109,1192	127,75	123,95	122,51	123,03	2,700	2,670	2,626	2,552
73	127,75	110,6347	129,50	125,70	124,26	124,78	2,700	2,670	2,626	2,552
74	129,50	112,1503	131,25	127,45	126,01	126,53	2,700	2,670	2,626	2,551
75	131,25	113,6658	133,00	129,20	127,76	128,28	2,699	2,670	2,625	2,551
76	133,00	115,1814	134,75	130,95	129,51	130,03	2,699	2,670	2,625	2,550
77	134,75	116,6969	136,50	132,70	131,26	131,78	2,699	2,669	2,625	2,550
78	136,50	118,2125	138,25	134,45	133,00	133,53	2,699	2,669	2,624	2,550
79	138,25	119,7280	140,00	136,20	134,75	135,28	2,699	2,669	2,624	2,549
80	140,00	121,2436	141,75	137,95	136,50	137,03	2,699	2,669	2,624	2,549
81	141,75	122,7591	143,50	139,70	138,25	138,78	2,699	2,669	2,623	2,548
82	143,50	124,2746	145,25	141,45	140,00	140,53	2,699	2,668	2,623	2,548
83	145,25	125,7902	147,00	143,20	141,75	142,28	2,699	2,668	2,623	2,547
84	147,00	127,3057	148,75	144,95	143,50	144,02	2,698	2,668	2,623	2,547
85	148,75	128,8213	150,50	146,70	145,25	145,77	2,698	2,668	2,622	2,546
86	150,50	130,3368	152,25	148,44	147,00	147,52	2,698	2,668	2,622	2,546
87	152,25	131,8524	154,00	150,19	148,75	149,27	2,698	2,668	2,622	2,545
88	154,00	133,3679	155,75	151,94	150,50	151,02	2,698	2,667	2,622	2,545
89	155,75	134,8835	157,50	153,69	152,25	152,77	2,698	2,667	2,621	2,545
90	157,50	136,3990	159,25	155,44	154,00	154,52	2,698	2,667	2,621	2,544
91	159,25	137,9145	161,00	157,19	155,74	156,27	2,698	2,667	2,621	2,544
92	161,00	139,4301	162,75	158,94	157,49	158,02	2,698	2,667	2,620	2,543
93	162,75	140,9456	164,50	160,69	159,24	159,77	2,697	2,667	2,620	2,543
94	164,50	142,4612	166,25	162,44	160,99	161,52	2,697	2,666	2,620	2,542
95	166,25	143,9767	168,00	164,19	162,74	163,27	2,697	2,666	2,620	2,542
96	168,00	145,4923	169,75	165,94	164,49	165,02	2,697	2,666	2,619	2,542
97	169,75	147,0078	171,50	167,69	166,24	166,77	2,697	2,666	2,619	2,541
98	171,50	148,5234	173,25	169,44	167,99	168,51	2,697	2,666	2,619	2,541
99	173,25	150,0389	175,00	171,19	169,74	170,26	2,697	2,666	2,619	2,540
100	175,00	151,5544	176,75	172,94	171,49	172,01	2,697	2,665	2,618	2,540

Table 23 — Inspection dimensions internal spline, $\alpha = 30°$, $m = 1{,}75$, flat or fillet root, $E_{v\,min} = 2{,}749$

z	D_{Ri}	Measurement over balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—	—
8	3,00	9,426	9,509	9,451	9,583	9,486	9,683	9,539	9,835	2,639
9	3,00	11,057	11,120	11,076	11,180	11,103	11,266	11,145	11,401	2,366
10	3,00	13,075	13,133	13,092	13,188	13,117	13,269	13,156	13,399	2,267
11	3,00	14,677	14,730	14,693	14,783	14,716	14,859	14,753	14,983	2,156
12	3,00	16,633	16,684	16,649	16,735	16,672	16,811	16,708	16,933	2,116
13	3,00	18,245	18,295	18,261	18,344	18,283	18,418	18,318	18,537	2,053
14	3,00	20,166	20,214	20,181	20,264	20,203	20,337	20,239	20,456	2,032
15	3,15	21,262	21,314	21,279	21,367	21,303	21,444	21,341	21,570	2,130
16	3,15	23,165	23,216	23,182	23,268	23,206	23,344	23,243	23,469	2,099
17	3,15	24,811	24,860	24,827	24,911	24,851	24,986	24,888	25,110	2,056
18	3,15	26,694	26,742	26,710	26,793	26,734	26,868	26,770	26,991	2,037
19	3,15	28,347	28,395	28,363	28,445	28,386	28,519	28,423	28,640	2,006
20	3,15	30,215	30,262	30,231	30,312	30,254	30,385	30,291	30,507	1,992
21	3,15	31,875	31,921	31,891	31,971	31,914	32,044	31,951	32,165	1,969
22	3,15	33,730	33,777	33,747	33,826	33,770	33,899	33,807	34,020	1,959
23	3,15	35,397	35,443	35,413	35,492	35,437	35,565	35,473	35,686	1,941
24	3,15	37,243	37,289	37,260	37,338	37,283	37,411	37,320	37,532	1,934
25	3,15	38,915	38,960	38,932	39,009	38,955	39,082	38,992	39,203	1,919
26	3,15	40,754	40,798	40,770	40,847	40,794	40,920	40,831	41,041	1,913
27	3,15	42,431	42,475	42,447	42,524	42,471	42,597	42,508	42,718	1,901
28	3,15	44,262	44,306	44,279	44,355	44,303	44,429	44,340	44,549	1,896
29	3,15	45,944	45,988	45,961	46,037	45,985	46,110	46,022	46,231	1,886
30	3,15	47,770	47,813	47,787	47,862	47,811	47,936	47,848	48,057	1,882
31	3,15	49,455	49,499	49,472	49,548	49,496	49,621	49,534	49,742	1,874
32	3,15	51,276	51,319	51,293	51,369	51,317	51,442	51,355	51,563	1,871
33	3,15	52,965	53,008	52,982	53,058	53,007	53,131	53,045	53,252	1,863
34	3,15	54,782	54,825	54,799	54,874	54,823	54,947	54,862	55,069	1,861
35	3,15	56,474	56,517	56,491	56,566	56,516	56,640	56,554	56,762	1,854
36	3,15	58,287	58,329	58,304	58,379	58,329	58,452	58,367	58,575	1,852
37	3,15	59,982	60,024	59,999	60,074	60,024	60,148	60,063	60,270	1,846
38	3,15	61,791	61,833	61,809	61,883	61,834	61,957	61,873	62,080	1,844
39	3,15	63,489	63,531	63,507	63,581	63,532	63,655	63,571	63,778	1,839
40	3,15	65,295	65,337	65,313	65,387	65,338	65,461	65,378	65,584	1,838
41	3,15	66,995	67,037	67,013	67,087	67,039	67,161	67,078	67,285	1,833
42	3,15	68,799	68,840	68,817	68,890	68,842	68,965	68,882	69,089	1,832
43	3,15	70,501	70,543	70,519	70,593	70,545	70,668	70,585	70,791	1,828
44	3,15	72,302	72,344	72,320	72,394	72,346	72,469	72,386	72,593	1,826
45	3,15	74,006	74,048	74,025	74,098	74,051	74,173	74,091	74,298	1,823
46	3,15	75,805	75,846	75,823	75,897	75,850	75,972	75,890	76,097	1,821
47	3,15	77,511	77,553	77,530	77,603	77,556	77,678	77,597	77,803	1,818
48	3,15	79,308	79,349	79,326	79,399	79,353	79,475	79,394	79,600	1,817
49	3,15	81,016	81,057	81,035	81,107	81,061	81,183	81,102	81,309	1,814
50	3,15	82,810	82,851	82,829	82,902	82,856	82,978	82,897	83,104	1,813
51	3,15	84,520	84,561	84,539	84,612	84,566	84,688	84,607	84,814	1,810
52	3,15	86,313	86,354	86,332	86,404	86,359	86,481	86,401	86,607	1,809
53	3,15	88,024	88,065	88,043	88,115	88,070	88,192	88,112	88,318	1,807
54	3,15	89,815	89,856	89,834	89,907	89,862	89,983	89,904	90,110	1,806
55	3,15	91,527	91,568	91,547	91,619	91,574	91,696	91,617	91,823	1,804
56	3,15	93,317	93,358	93,337	93,409	93,364	93,486	93,407	93,613	1,803
57	3,15	95,031	95,071	95,050	95,123	95,078	95,199	95,121	95,327	1,801
58	3,15	96,819	96,859	96,839	96,911	96,867	96,988	96,910	97,116	1,800
59	3,15	98,534	98,574	98,554	98,626	98,582	98,703	98,625	98,831	1,798
60	3,15	100,321	100,361	100,341	100,413	100,369	100,490	100,412	100,619	1,798
61	3,15	102,037	102,077	102,057	102,129	102,085	102,206	102,129	102,335	1,796
62	3,15	103,823	103,863	103,843	103,915	103,871	103,992	103,915	104,122	1,795
63	3,15	105,540	105,580	105,560	105,632	105,589	105,710	105,633	105,839	1,793
64	3,15	107,324	107,364	107,345	107,416	107,373	107,494	107,418	107,624	1,793
65	3,15	109,042	109,082	109,063	109,134	109,092	109,213	109,136	109,343	1,791
66	3,15	110,826	110,866	110,846	110,918	110,875	110,996	110,920	111,127	1,791
67	3,15	112,545	112,585	112,566	112,637	112,595	112,716	112,640	112,846	1,789
68	3,15	114,327	114,367	114,348	114,420	114,377	114,498	114,423	114,629	1,789
69	3,15	116,047	116,087	116,068	116,139	116,098	116,218	116,143	116,349	1,787
70	3,15	117,829	117,868	117,850	117,921	117,879	118,000	117,925	118,131	1,787
71	3,15	119,550	119,589	119,571	119,642	119,600	119,721	119,646	119,852	1,786
72	3,15	121,330	121,370	121,351	121,423	121,381	121,502	121,427	121,634	1,785
73	3,15	123,052	123,091	123,073	123,144	123,103	123,224	123,149	123,356	1,784
74	3,15	124,832	124,871	124,853	124,924	124,883	125,004	124,929	125,136	1,784
75	3,15	126,554	126,593	126,575	126,646	126,605	126,726	126,652	126,859	1,783
76	3,15	128,333	128,372	128,354	128,425	128,385	128,505	128,431	128,638	1,782
77	3,15	130,056	130,095	130,077	130,148	130,108	130,228	130,155	130,361	1,781
78	3,15	131,834	131,873	131,856	131,927	131,886	132,007	131,933	132,140	1,781
79	3,15	133,558	133,597	133,580	133,650	133,610	133,731	133,657	133,864	1,780
80	3,15	135,335	135,374	135,357	135,428	135,388	135,508	135,435	135,642	1,779
81	3,15	137,059	137,098	137,082	137,152	137,113	137,233	137,160	137,367	1,778
82	3,15	138,836	138,875	138,859	138,929	138,890	139,010	138,937	139,144	1,778
83	3,15	140,561	140,600	140,583	140,654	140,615	140,735	140,663	140,870	1,777
84	3,15	142,338	142,376	142,360	142,430	142,391	142,511	142,439	142,646	1,777
85	3,15	144,063	144,101	144,085	144,156	144,117	144,237	144,165	144,372	1,776
86	3,15	145,839	145,877	145,861	145,931	145,893	146,013	145,941	146,148	1,776
87	3,15	147,565	147,603	147,587	147,657	147,619	147,739	147,668	147,875	1,775
88	3,15	149,340	149,378	149,362	149,433	149,394	149,514	149,443	149,650	1,775
89	3,15	151,066	151,104	151,089	151,159	151,121	151,241	151,170	151,377	1,774
90	3,15	152,841	152,879	152,864	152,934	152,896	153,016	152,945	153,152	1,773
91	3,15	154,568	154,606	154,591	154,661	154,623	154,743	154,672	154,879	1,773
92	3,15	156,342	156,380	156,365	156,435	156,397	156,517	156,447	156,654	1,772
93	3,15	158,069	158,107	158,092	158,162	158,125	158,245	158,174	158,382	1,772
94	3,15	159,843	159,881	159,866	159,936	159,898	160,018	159,948	160,156	1,771
95	3,15	161,571	161,608	161,594	161,664	161,627	161,746	161,677	161,884	1,771
96	3,15	163,343	163,381	163,367	163,437	163,400	163,520	163,450	163,657	1,771
97	3,15	165,072	165,110	165,095	165,165	165,128	165,248	165,179	165,386	1,770
98	3,15	166,844	166,882	166,868	166,938	166,901	167,021	166,952	167,159	1,770
99	3,15	168,573	168,611	168,597	168,667	168,630	168,750	168,681	168,888	1,769
100	3,15	170,345	170,383	170,369	170,439	170,402	170,522	170,453	170,661	1,769

Table 24 — Inspection dimensions external spline, $\alpha = 30°$, $m = 1{,}75$, flat or fillet root, $S_{v\,max} = 2{,}749$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	4,00	17,037	17,064	17,011	17,056	16,973	17,046	16,909	17,028	1,220
7	3,75	17,860	17,888	17,833	17,880	17,793	17,868	17,726	17,850	1,255
8	3,75	20,006	20,035	19,977	20,026	19,935	20,014	19,863	19,995	1,315
9	3,75	21,510	21,539	21,481	21,530	21,438	21,518	21,365	21,498	1,318
10	3,55	23,044	23,075	23,013	23,066	22,967	23,052	22,889	23,031	1,394
11	3,55	24,594	24,625	24,563	24,616	24,516	24,602	24,437	24,580	1,398
12	3,55	26,575	26,607	26,543	26,597	26,495	26,583	26,414	26,561	1,429
13	3,55	28,158	28,190	28,125	28,180	28,076	28,165	27,994	28,142	1,433
14	3,55	30,100	30,133	30,066	30,122	30,016	30,107	29,932	30,084	1,457
15	3,55	31,705	31,738	31,671	31,728	31,621	31,712	31,535	31,688	1,461
16	3,55	33,620	33,653	33,585	33,642	33,533	33,627	33,446	33,602	1,481
17	3,55	35,242	35,276	35,208	35,265	35,155	35,249	35,067	35,224	1,484
18	3,55	37,136	37,170	37,100	37,158	37,047	37,142	36,958	37,116	1,500
19	3,35	38,225	38,260	38,188	38,248	38,133	38,231	38,041	38,204	1,536
20	3,35	40,099	40,134	40,062	40,122	40,006	40,105	39,913	40,078	1,549
21	3,35	41,746	41,781	41,708	41,769	41,652	41,751	41,558	41,724	1,551
22	3,35	43,607	43,643	43,569	43,630	43,512	43,612	43,417	43,584	1,562
23	3,35	45,263	45,298	45,225	45,286	45,167	45,268	45,071	45,239	1,564
24	3,35	47,114	47,150	47,076	47,137	47,017	47,119	46,920	47,090	1,573
25	3,35	48,778	48,813	48,739	48,800	48,680	48,782	48,582	48,752	1,575
26	3,35	50,620	50,656	50,581	50,643	50,522	50,624	50,423	50,594	1,583
27	3,35	52,290	52,326	52,250	52,312	52,191	52,293	52,091	52,263	1,585
28	3,35	54,125	54,161	54,085	54,148	54,025	54,128	53,924	54,098	1,592
29	3,35	55,801	55,837	55,760	55,823	55,700	55,803	55,598	55,773	1,594
30	3,35	57,630	57,666	57,589	57,652	57,528	57,632	57,426	57,601	1,600
31	3,35	59,310	59,346	59,269	59,332	59,208	59,312	59,105	59,281	1,601
32	3,35	61,134	61,170	61,093	61,156	61,031	61,136	60,927	61,104	1,607
33	3,35	62,818	62,855	62,777	62,840	62,714	62,820	62,610	62,788	1,608
34	3,35	64,637	64,674	64,596	64,659	64,533	64,638	64,428	64,606	1,613
35	3,35	66,326	66,362	66,284	66,347	66,220	66,326	66,115	66,294	1,614
36	3,35	68,141	68,177	68,098	68,162	68,035	68,141	67,928	68,108	1,619
37	3,35	69,832	69,868	69,789	69,853	69,726	69,832	69,619	69,799	1,620
38	3,35	71,643	71,680	71,601	71,665	71,536	71,643	71,429	71,609	1,624
39	3,35	73,338	73,374	73,295	73,359	73,230	73,337	73,122	73,303	1,625
40	3,35	75,146	75,182	75,103	75,167	75,038	75,145	74,929	75,111	1,629
41	3,35	76,843	76,880	76,800	76,864	76,734	76,842	76,625	76,807	1,630
42	3,35	78,648	78,685	78,604	78,669	78,539	78,646	78,429	78,612	1,633
43	3,35	80,348	80,384	80,304	80,368	80,238	80,346	80,128	80,311	1,634
44	3,35	82,150	82,187	82,106	82,171	82,040	82,148	81,929	82,112	1,637
45	3,35	83,852	83,889	83,808	83,872	83,741	83,849	83,630	83,814	1,638
46	3,35	85,652	85,689	85,607	85,672	85,540	85,649	85,428	85,613	1,641
47	3,35	87,356	87,393	87,311	87,376	87,244	87,353	87,131	87,316	1,642
48	3,35	89,154	89,190	89,109	89,174	89,041	89,150	88,928	89,114	1,644
49	3,35	90,859	90,896	90,814	90,879	90,746	90,856	90,633	90,819	1,645
50	3,35	92,655	92,692	92,610	92,675	92,542	92,651	92,428	92,614	1,647
51	3,35	94,363	94,399	94,317	94,382	94,249	94,358	94,134	94,321	1,648
52	3,35	96,157	96,193	96,111	96,176	96,042	96,152	95,927	96,114	1,650
53	3,35	97,866	97,902	97,820	97,885	97,751	97,861	97,635	97,823	1,651
54	3,35	99,658	99,694	99,612	99,677	99,542	99,652	99,427	99,614	1,653
55	3,35	101,368	101,405	101,322	101,387	101,253	101,363	101,136	101,324	1,654
56	3,35	103,159	103,196	103,112	103,178	103,043	103,153	102,926	103,114	1,656
57	3,35	104,871	104,908	104,824	104,890	104,754	104,865	104,637	104,826	1,656
58	3,35	106,660	106,697	106,613	106,679	106,543	106,653	106,425	106,614	1,658
59	3,35	108,373	108,410	108,326	108,392	108,256	108,366	108,138	108,327	1,659
60	3,35	110,161	110,198	110,114	110,179	110,043	110,154	109,925	110,114	1,661
61	3,35	111,875	111,912	111,828	111,894	111,757	111,868	111,638	111,828	1,661
62	3,35	113,662	113,699	113,614	113,680	113,543	113,654	113,424	113,614	1,663
63	3,35	115,378	115,414	115,330	115,396	115,258	115,369	115,139	115,329	1,663
64	3,35	117,163	117,199	117,115	117,181	117,043	117,154	116,923	117,114	1,665
65	3,35	118,879	118,916	118,831	118,897	118,759	118,871	118,639	118,830	1,665
66	3,35	120,664	120,700	120,615	120,681	120,543	120,655	120,422	120,613	1,667
67	3,35	122,381	122,418	122,333	122,399	122,260	122,372	122,139	122,331	1,667
68	3,35	124,164	124,201	124,116	124,182	124,043	124,155	123,921	124,113	1,668
69	3,35	125,883	125,919	125,834	125,900	125,761	125,873	125,639	125,831	1,669
70	3,35	127,665	127,701	127,616	127,682	127,543	127,655	127,421	127,613	1,670
71	3,35	129,384	129,421	129,335	129,401	129,262	129,374	129,139	129,332	1,671
72	3,35	131,166	131,202	131,116	131,182	131,043	131,155	130,920	131,112	1,672
73	3,35	132,886	132,922	132,837	132,902	132,763	132,875	132,639	132,832	1,672
74	3,35	134,666	134,702	134,617	134,683	134,543	134,655	134,419	134,612	1,673
75	3,35	136,387	136,423	136,338	136,404	136,263	136,376	136,139	136,332	1,674
76	3,35	138,167	138,203	138,117	138,183	138,042	138,155	137,918	138,111	1,675
77	3,35	139,888	139,925	139,839	139,905	139,764	139,876	139,639	139,833	1,675
78	3,35	141,667	141,703	141,617	141,683	141,542	141,655	141,417	141,611	1,676
79	3,35	143,390	143,426	143,340	143,405	143,264	143,377	143,139	143,333	1,677
80	3,35	145,168	145,204	145,117	145,183	145,042	145,154	144,916	145,110	1,678
81	3,35	146,891	146,927	146,840	146,906	146,765	146,877	146,639	146,833	1,678
82	3,35	148,668	148,704	148,617	148,683	148,542	148,654	148,415	148,610	1,679
83	3,35	150,392	150,428	150,341	150,407	150,265	150,378	150,138	150,333	1,679
84	3,35	152,168	152,204	152,118	152,184	152,041	152,154	151,914	152,109	1,680
85	3,35	153,893	153,929	153,842	153,908	153,766	153,878	153,638	153,833	1,680
86	3,35	155,669	155,705	155,618	155,684	155,541	155,654	155,413	155,609	1,681
87	3,35	157,394	157,430	157,343	157,409	157,266	157,379	157,138	157,333	1,682
88	3,35	159,169	159,205	159,118	159,184	159,041	159,154	158,912	159,108	1,682
89	3,35	160,895	160,931	160,843	160,909	160,766	160,879	160,637	160,833	1,683
90	3,35	162,669	162,705	162,618	162,684	162,540	162,654	162,411	162,607	1,683
91	3,35	164,395	164,431	164,344	164,410	164,266	164,379	164,137	164,333	1,684
92	3,35	166,170	166,205	166,118	166,184	166,040	166,153	165,910	166,107	1,684
93	3,35	167,896	167,932	167,844	167,910	167,766	167,880	167,636	167,833	1,685
94	3,35	169,670	169,706	169,618	169,684	169,540	169,653	169,409	169,606	1,685
95	3,35	171,397	171,433	171,345	171,411	171,267	171,380	171,136	171,333	1,686
96	3,35	173,170	173,206	173,118	173,184	173,039	173,153	172,908	173,105	1,686
97	3,35	174,898	174,933	174,845	174,911	174,767	174,880	174,635	174,832	1,687
98	3,35	176,670	176,706	176,618	176,684	176,539	176,652	176,407	176,605	1,687
99	3,35	178,398	178,434	178,346	178,412	178,267	178,380	178,135	178,332	1,688
100	3,35	180,170	180,206	180,118	180,184	180,039	180,152	179,906	180,104	1,688

5.7 30° pressure angle, module 2

Table 25 — Geometry internal spline, $\alpha = 30°$, $m = 2$, flat and fillet root, $E_{v\,min} = 3{,}142$

z	D	D_b	$D_{ei\,max}$ Fillet root	$D_{ei\,max}$ Flat	$D_{Fi\,min}$	$D_{Ii\,min}$	E_{max}			
							4H	5H	6H	7H
6	12,00	10,3923	15,86	15,26	14,40	10,86	3,179	3,201	3,234	3,290
7	14,00	12,1244	17,86	17,26	16,40	12,72	3,179	3,202	3,236	3,292
8	16,00	13,8564	19,86	19,26	18,40	14,62	3,180	3,203	3,237	3,294
9	18,00	15,5885	21,87	21,27	20,40	16,54	3,180	3,204	3,238	3,296
10	20,00	17,3205	23,87	23,27	22,40	18,48	3,181	3,204	3,239	3,298
11	22,00	19,0526	25,87	25,27	24,40	20,44	3,181	3,205	3,240	3,299
12	24,00	20,7846	27,88	27,28	26,40	22,40	3,182	3,206	3,241	3,301
13	26,00	22,5167	29,88	29,28	28,40	24,36	3,182	3,206	3,242	3,302
14	28,00	24,2487	31,88	31,28	30,40	26,34	3,182	3,207	3,243	3,304
15	30,00	25,9808	33,88	33,28	32,40	28,31	3,183	3,207	3,244	3,305
16	32,00	27,7128	35,88	35,28	34,40	30,29	3,183	3,208	3,245	3,306
17	34,00	29,4449	37,89	37,29	36,40	32,27	3,183	3,208	3,246	3,308
18	36,00	31,1769	39,89	39,29	38,40	34,26	3,184	3,209	3,246	3,309
19	38,00	32,9090	41,89	41,29	40,40	36,24	3,184	3,209	3,247	3,310
20	40,00	34,6410	43,89	43,29	42,40	38,23	3,184	3,210	3,248	3,311
21	42,00	36,3731	45,89	45,29	44,40	40,22	3,185	3,210	3,248	3,312
22	44,00	38,1051	47,90	47,30	46,40	42,21	3,185	3,211	3,249	3,313
23	46,00	39,8372	49,90	49,30	48,40	44,20	3,185	3,211	3,250	3,314
24	48,00	41,5692	51,90	51,30	50,40	46,19	3,185	3,211	3,250	3,315
25	50,00	43,3013	53,90	53,30	52,40	48,18	3,186	3,212	3,251	3,316
26	52,00	45,0333	55,90	55,30	54,40	50,17	3,186	3,212	3,252	3,317
27	54,00	46,7654	57,91	57,31	56,40	52,17	3,186	3,212	3,252	3,318
28	56,00	48,4974	59,91	59,31	58,40	54,16	3,186	3,213	3,253	3,319
29	58,00	50,2295	61,91	61,31	60,40	56,16	3,186	3,213	3,253	3,320
30	60,00	51,9615	63,91	63,31	62,40	58,15	3,187	3,214	3,254	3,321
31	62,00	53,6936	65,91	65,31	64,40	60,14	3,187	3,214	3,254	3,322
32	64,00	55,4256	67,91	67,31	66,40	62,14	3,187	3,214	3,255	3,323
33	66,00	57,1577	69,91	69,31	68,40	64,14	3,187	3,215	3,255	3,323
34	68,00	58,8897	71,92	71,32	70,40	66,13	3,188	3,215	3,256	3,324
35	70,00	60,6218	73,92	73,32	72,40	68,13	3,188	3,215	3,256	3,325
36	72,00	62,3538	75,92	75,32	74,40	70,12	3,188	3,215	3,257	3,326
37	74,00	64,0859	77,92	77,32	76,40	72,12	3,188	3,216	3,257	3,326
38	76,00	65,8179	79,92	79,32	78,40	74,12	3,188	3,216	3,258	3,327
39	78,00	67,5500	81,92	81,32	80,40	76,11	3,188	3,216	3,258	3,328
40	80,00	69,2820	83,92	83,32	82,40	78,11	3,189	3,217	3,259	3,329
41	82,00	71,0141	85,92	85,32	84,40	80,11	3,189	3,217	3,259	3,329
42	84,00	72,7461	87,93	87,33	86,40	82,11	3,189	3,217	3,260	3,330
43	86,00	74,4782	89,93	89,33	88,40	84,10	3,189	3,218	3,260	3,331
44	88,00	76,2102	91,93	91,33	90,40	86,10	3,189	3,218	3,260	3,332
45	90,00	77,9423	93,93	93,33	92,40	88,10	3,190	3,218	3,261	3,332
46	92,00	79,6743	95,93	95,33	94,40	90,10	3,190	3,218	3,261	3,333
47	94,00	81,4064	97,93	97,33	96,40	92,09	3,190	3,219	3,262	3,334
48	96,00	83,1384	99,93	99,33	98,40	94,09	3,190	3,219	3,262	3,334
49	98,00	84,8705	101,93	101,33	100,40	96,09	3,190	3,219	3,263	3,335
50	100,00	86,6025	103,94	103,34	102,40	98,09	3,190	3,219	3,263	3,336
51	102,00	88,3346	105,94	105,34	104,40	100,09	3,191	3,220	3,263	3,336
52	104,00	90,0666	107,94	107,34	106,40	102,09	3,191	3,220	3,264	3,337
53	106,00	91,7987	109,94	109,34	108,40	104,08	3,191	3,220	3,264	3,337
54	108,00	93,5307	111,94	111,34	110,40	106,08	3,191	3,220	3,264	3,338
55	110,00	95,2628	113,94	113,34	112,40	108,08	3,191	3,221	3,265	3,339
56	112,00	96,9948	115,94	115,34	114,40	110,08	3,191	3,221	3,265	3,339
57	114,00	98,7269	117,94	117,34	116,40	112,08	3,191	3,221	3,266	3,340
58	116,00	100,4589	119,94	119,34	118,40	114,08	3,192	3,221	3,266	3,340
59	118,00	102,1910	121,94	121,34	120,40	116,07	3,192	3,222	3,266	3,341
60	120,00	103,9230	123,95	123,35	122,40	118,07	3,192	3,222	3,267	3,342
61	122,00	105,6551	125,95	125,35	124,40	120,07	3,192	3,222	3,267	3,342
62	124,00	107,3872	127,95	127,35	126,40	122,07	3,192	3,222	3,267	3,343
63	126,00	109,1192	129,95	129,35	128,40	124,07	3,192	3,222	3,268	3,343
64	128,00	110,8513	131,95	131,35	130,40	126,07	3,192	3,223	3,268	3,344
65	130,00	112,5833	133,95	133,35	132,40	128,07	3,193	3,223	3,268	3,344
66	132,00	114,3154	135,95	135,35	134,40	130,07	3,193	3,223	3,269	3,345
67	134,00	116,0474	137,95	137,35	136,40	132,07	3,193	3,223	3,269	3,345
68	136,00	117,7795	139,95	139,35	138,40	134,06	3,193	3,224	3,269	3,346
69	138,00	119,5115	141,95	141,35	140,40	136,06	3,193	3,224	3,270	3,346
70	140,00	121,2436	143,96	143,36	142,40	138,06	3,193	3,224	3,270	3,347
71	142,00	122,9756	145,96	145,36	144,40	140,06	3,193	3,224	3,270	3,348
72	144,00	124,7077	147,96	147,36	146,40	142,06	3,194	3,224	3,271	3,348
73	146,00	126,4397	149,96	149,36	148,40	144,06	3,194	3,225	3,271	3,349
74	148,00	128,1718	151,96	151,36	150,40	146,06	3,194	3,225	3,271	3,349
75	150,00	129,9038	153,96	153,36	152,40	148,06	3,194	3,225	3,272	3,350
76	152,00	131,6359	155,96	155,36	154,40	150,06	3,194	3,225	3,272	3,350
77	154,00	133,3679	157,96	157,36	156,40	152,06	3,194	3,225	3,272	3,351
78	156,00	135,1000	159,96	159,36	158,40	154,06	3,194	3,226	3,273	3,351
79	158,00	136,8320	161,96	161,36	160,40	156,06	3,194	3,226	3,273	3,352
80	160,00	138,5641	163,96	163,36	162,40	158,05	3,195	3,226	3,273	3,352
81	162,00	140,2961	165,96	165,36	164,40	160,05	3,195	3,226	3,274	3,353
82	164,00	142,0282	167,97	167,37	166,40	162,05	3,195	3,226	3,274	3,353
83	166,00	143,7602	169,97	169,37	168,40	164,05	3,195	3,227	3,274	3,354
84	168,00	145,4923	171,97	171,37	170,40	166,05	3,195	3,227	3,274	3,354
85	170,00	147,2243	173,97	173,37	172,40	168,05	3,195	3,227	3,275	3,354
86	172,00	148,9564	175,97	175,37	174,40	170,05	3,195	3,227	3,275	3,355
87	174,00	150,6884	177,97	177,37	176,40	172,05	3,195	3,227	3,275	3,355
88	176,00	152,4205	179,97	179,37	178,40	174,05	3,195	3,228	3,276	3,356
89	178,00	154,1525	181,97	181,37	180,40	176,05	3,196	3,228	3,276	3,356
90	180,00	155,8846	183,97	183,37	182,40	178,05	3,196	3,228	3,276	3,357
91	182,00	157,6166	185,97	185,37	184,40	180,05	3,196	3,228	3,277	3,357
92	184,00	159,3487	187,97	187,37	186,40	182,05	3,196	3,228	3,277	3,358
93	186,00	161,0807	189,97	189,37	188,40	184,05	3,196	3,228	3,277	3,358
94	188,00	162,8128	191,98	191,38	190,40	186,05	3,196	3,229	3,277	3,359
95	190,00	164,5448	193,98	193,38	192,40	188,05	3,196	3,229	3,278	3,359
96	192,00	166,2769	195,98	195,38	194,40	190,05	3,196	3,229	3,278	3,359
97	194,00	168,0089	197,98	197,38	196,40	192,05	3,196	3,229	3,278	3,360
98	196,00	169,7410	199,98	199,38	198,40	194,04	3,197	3,229	3,278	3,360
99	198,00	171,4730	201,98	201,38	200,40	196,04	3,197	3,230	3,279	3,361
100	200,00	173,2051	203,98	203,38	202,40	198,04	3,197	3,230	3,279	3,361

Table 26 — Geometry external spline, $\alpha = 30°$, $m = 2$, flat and fillet root, $S_{v\,max} = 3{,}142$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$ Fillet root	$D_{ie\,min}$ Flat	S_{min}			
							4h	5h	6h	7h
6	12,00	10,3923	14,00	10,46	8,14	8,74	3,105	3,083	3,050	2,994
7	14,00	12,1244	16,00	12,32	10,14	10,74	3,105	3,082	3,048	2,992
8	16,00	13,8564	18,00	14,22	12,14	12,74	3,104	3,081	3,047	2,990
9	18,00	15,5885	20,00	16,14	14,13	14,73	3,104	3,080	3,046	2,988
10	20,00	17,3205	22,00	18,08	16,13	16,73	3,103	3,080	3,045	2,986
11	22,00	19,0526	24,00	20,04	18,13	18,73	3,103	3,079	3,044	2,985
12	24,00	20,7846	26,00	22,00	20,12	20,72	3,102	3,078	3,043	2,983
13	26,00	22,5167	28,00	23,96	22,12	22,72	3,102	3,078	3,042	2,982
14	28,00	24,2487	30,00	25,94	24,12	24,72	3,102	3,077	3,041	2,980
15	30,00	25,9808	32,00	27,91	26,12	26,72	3,101	3,077	3,040	2,979
16	32,00	27,7128	34,00	29,89	28,12	28,72	3,101	3,076	3,039	2,978
17	34,00	29,4449	36,00	31,87	30,11	30,71	3,101	3,076	3,038	2,976
18	36,00	31,1769	38,00	33,86	32,11	32,71	3,100	3,075	3,038	2,975
19	38,00	32,9090	40,00	35,84	34,11	34,71	3,100	3,075	3,037	2,974
20	40,00	34,6410	42,00	37,83	36,11	36,71	3,100	3,074	3,036	2,973
21	42,00	36,3731	44,00	39,82	38,11	38,71	3,099	3,074	3,036	2,972
22	44,00	38,1051	46,00	41,81	40,10	40,70	3,099	3,073	3,035	2,971
23	46,00	39,8372	48,00	43,80	42,10	42,70	3,099	3,073	3,034	2,970
24	48,00	41,5692	50,00	45,79	44,10	44,70	3,099	3,073	3,034	2,969
25	50,00	43,3013	52,00	47,78	46,10	46,70	3,098	3,072	3,033	2,968
26	52,00	45,0333	54,00	49,77	48,10	48,70	3,098	3,072	3,032	2,967
27	54,00	46,7654	56,00	51,77	50,09	50,69	3,098	3,072	3,032	2,966
28	56,00	48,4974	58,00	53,76	52,09	52,69	3,098	3,071	3,031	2,965
29	58,00	50,2295	60,00	55,76	54,09	54,69	3,098	3,071	3,031	2,964
30	60,00	51,9615	62,00	57,75	56,09	56,69	3,097	3,070	3,030	2,963
31	62,00	53,6936	64,00	59,74	58,09	58,69	3,097	3,070	3,030	2,962
32	64,00	55,4256	66,00	61,74	60,09	60,69	3,097	3,070	3,029	2,961
33	66,00	57,1577	68,00	63,74	62,09	62,69	3,097	3,069	3,029	2,961
34	68,00	58,8897	70,00	65,73	64,08	64,68	3,096	3,069	3,028	2,960
35	70,00	60,6218	72,00	67,73	66,08	66,68	3,096	3,069	3,028	2,959
36	72,00	62,3538	74,00	69,72	68,08	68,68	3,096	3,069	3,027	2,958
37	74,00	64,0859	76,00	71,72	70,08	70,68	3,096	3,068	3,027	2,958
38	76,00	65,8179	78,00	73,72	72,08	72,68	3,096	3,068	3,026	2,957
39	78,00	67,5500	80,00	75,71	74,08	74,68	3,096	3,068	3,026	2,956
40	80,00	69,2820	82,00	77,71	76,08	76,68	3,095	3,067	3,025	2,955
41	82,00	71,0141	84,00	79,71	78,08	78,68	3,095	3,067	3,025	2,955
42	84,00	72,7461	86,00	81,71	80,07	80,67	3,095	3,067	3,024	2,954
43	86,00	74,4782	88,00	83,70	82,07	82,67	3,095	3,066	3,024	2,953
44	88,00	76,2102	90,00	85,70	84,07	84,67	3,095	3,066	3,024	2,952
45	90,00	77,9423	92,00	87,70	86,07	86,67	3,094	3,066	3,023	2,952
46	92,00	79,6743	94,00	89,70	88,07	88,67	3,094	3,066	3,023	2,951
47	94,00	81,4064	96,00	91,69	90,07	90,67	3,094	3,065	3,022	2,950
48	96,00	83,1384	98,00	93,69	92,07	92,67	3,094	3,065	3,022	2,950
49	98,00	84,8705	100,00	95,69	94,07	94,67	3,094	3,065	3,021	2,949
50	100,00	86,6025	102,00	97,69	96,06	96,66	3,094	3,065	3,021	2,948
51	102,00	88,3346	104,00	99,69	98,06	98,66	3,093	3,064	3,021	2,948
52	104,00	90,0666	106,00	101,69	100,06	100,66	3,093	3,064	3,020	2,947
53	106,00	91,7987	108,00	103,68	102,06	102,66	3,093	3,064	3,020	2,947
54	108,00	93,5307	110,00	105,68	104,06	104,66	3,093	3,064	3,020	2,946
55	110,00	95,2628	112,00	107,68	106,06	106,66	3,093	3,063	3,019	2,945
56	112,00	96,9948	114,00	109,68	108,06	108,66	3,093	3,063	3,019	2,945
57	114,00	98,7269	116,00	111,68	110,06	110,66	3,093	3,063	3,018	2,944
58	116,00	100,4589	118,00	113,68	112,06	112,66	3,092	3,063	3,018	2,944
59	118,00	102,1910	120,00	115,67	114,06	114,66	3,092	3,062	3,018	2,943
60	120,00	103,9230	122,00	117,67	116,05	116,65	3,092	3,062	3,017	2,942
61	122,00	105,6551	124,00	119,67	118,05	118,65	3,092	3,062	3,017	2,942
62	124,00	107,3872	126,00	121,67	120,05	120,65	3,092	3,062	3,017	2,941
63	126,00	109,1192	128,00	123,67	122,05	122,65	3,092	3,062	3,016	2,941
64	128,00	110,8513	130,00	125,67	124,05	124,65	3,092	3,061	3,016	2,940
65	130,00	112,5833	132,00	127,67	126,05	126,65	3,091	3,061	3,016	2,940
66	132,00	114,3154	134,00	129,67	128,05	128,65	3,091	3,061	3,015	2,939
67	134,00	116,0474	136,00	131,67	130,05	130,65	3,091	3,061	3,015	2,939
68	136,00	117,7795	138,00	133,66	132,05	132,65	3,091	3,060	3,015	2,938
69	138,00	119,5115	140,00	135,66	134,05	134,65	3,091	3,060	3,014	2,938
70	140,00	121,2436	142,00	137,66	136,04	136,64	3,091	3,060	3,014	2,937
71	142,00	122,9756	144,00	139,66	138,04	138,64	3,091	3,060	3,014	2,936
72	144,00	124,7077	146,00	141,66	140,04	140,64	3,090	3,060	3,013	2,936
73	146,00	126,4397	148,00	143,66	142,04	142,64	3,090	3,059	3,013	2,935
74	148,00	128,1718	150,00	145,66	144,04	144,64	3,090	3,059	3,013	2,935
75	150,00	129,9038	152,00	147,66	146,04	146,64	3,090	3,059	3,012	2,934
76	152,00	131,6359	154,00	149,66	148,04	148,64	3,090	3,059	3,012	2,934
77	154,00	133,3679	156,00	151,66	150,04	150,64	3,090	3,059	3,012	2,933
78	156,00	135,1000	158,00	153,66	152,04	152,64	3,090	3,058	3,011	2,933
79	158,00	136,8320	160,00	155,66	154,04	154,64	3,090	3,058	3,011	2,932
80	160,00	138,5641	162,00	157,65	156,04	156,64	3,089	3,058	3,011	2,932
81	162,00	140,2961	164,00	159,65	158,04	158,64	3,089	3,058	3,010	2,931
82	164,00	142,0282	166,00	161,65	160,03	160,63	3,089	3,058	3,010	2,931
83	166,00	143,7602	168,00	163,65	162,03	162,63	3,089	3,057	3,010	2,930
84	168,00	145,4923	170,00	165,65	164,03	164,63	3,089	3,057	3,010	2,930
85	170,00	147,2243	172,00	167,65	166,03	166,63	3,089	3,057	3,009	2,930
86	172,00	148,9564	174,00	169,65	168,03	168,63	3,089	3,057	3,009	2,929
87	174,00	150,6884	176,00	171,65	170,03	170,63	3,089	3,057	3,009	2,929
88	176,00	152,4205	178,00	173,65	172,03	172,63	3,089	3,056	3,008	2,928
89	178,00	154,1525	180,00	175,65	174,03	174,63	3,088	3,056	3,008	2,928
90	180,00	155,8846	182,00	177,65	176,03	176,63	3,088	3,056	3,008	2,927
91	182,00	157,6166	184,00	179,65	178,03	178,63	3,088	3,056	3,007	2,927
92	184,00	159,3487	186,00	181,65	180,03	180,63	3,088	3,056	3,007	2,926
93	186,00	161,0807	188,00	183,65	182,03	182,63	3,088	3,056	3,007	2,926
94	188,00	162,8128	190,00	185,65	184,02	184,62	3,088	3,055	3,007	2,925
95	190,00	164,5448	192,00	187,65	186,02	186,62	3,088	3,055	3,006	2,925
96	192,00	166,2769	194,00	189,65	188,02	188,62	3,088	3,055	3,006	2,925
97	194,00	168,0089	196,00	191,65	190,02	190,62	3,088	3,055	3,006	2,924
98	196,00	169,7410	198,00	193,64	192,02	192,62	3,087	3,055	3,006	2,924
99	198,00	171,4730	200,00	195,64	194,02	194,62	3,087	3,054	3,005	2,923
100	200,00	173,2051	202,00	197,64	196,02	196,62	3,087	3,054	3,005	2,923

Table 27 — Inspection dimensions internal spline, $\alpha = 30°$, $m = 2$, flat or fillet root, $E_{v\,min} = 3{,}142$

z	D_{Ri}	Measurement over balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—	—
8	3,35	11,150	11,217	11,169	11,280	11,197	11,370	11,241	11,511	2,396
9	3,35	12,955	13,014	12,973	13,070	12,997	13,152	13,037	13,283	2,216
10	3,55	14,413	14,489	14,436	14,560	14,468	14,660	14,518	14,818	2,602
11	3,55	16,290	16,354	16,309	16,417	16,337	16,507	16,381	16,652	2,391
12	3,55	18,545	18,605	18,563	18,664	18,590	18,750	18,631	18,890	2,297
13	3,55	20,405	20,462	20,423	20,518	20,448	20,601	20,488	20,735	2,199
14	3,55	22,609	22,664	22,626	22,719	22,651	22,800	22,690	22,932	2,155
15	3,55	24,476	24,529	24,493	24,583	24,518	24,662	24,556	24,792	2,096
16	3,55	26,649	26,700	26,666	26,753	26,690	26,832	26,728	26,961	2,070
17	3,55	28,526	28,577	28,543	28,629	28,567	28,706	28,604	28,834	2,031
18	3,55	30,676	30,726	30,693	30,778	30,717	30,855	30,754	30,982	2,014
19	3,55	32,563	32,612	32,580	32,664	32,604	32,740	32,641	32,866	1,986
20	3,55	34,696	34,745	34,713	34,796	34,737	34,873	34,775	34,999	1,974
21	3,55	36,592	36,640	36,609	36,691	36,633	36,767	36,670	36,893	1,952
22	3,55	38,712	38,760	38,729	38,811	38,753	38,887	38,791	39,013	1,944
23	3,55	40,615	40,663	40,632	40,714	40,656	40,789	40,694	40,915	1,927
24	3,55	42,725	42,772	42,742	42,822	42,766	42,898	42,804	43,024	1,920
25	3,55	44,635	44,681	44,652	44,732	44,676	44,808	44,714	44,933	1,907
26	3,55	46,735	46,781	46,752	46,832	46,777	46,908	46,815	47,034	1,902
27	3,55	48,651	48,697	48,668	48,748	48,693	48,824	48,731	48,949	1,890
28	3,55	50,744	50,789	50,761	50,840	50,786	50,916	50,824	51,042	1,886
29	3,55	52,665	52,710	52,682	52,761	52,707	52,837	52,746	52,963	1,877
30	3,55	54,751	54,796	54,769	54,847	54,794	54,924	54,833	55,050	1,873
31	3,55	56,677	56,722	56,695	56,773	56,720	56,849	56,759	56,975	1,865
32	3,55	58,757	58,802	58,775	58,854	58,801	58,930	58,840	59,056	1,862
33	3,55	60,687	60,732	60,705	60,783	60,731	60,860	60,770	60,986	1,855
34	3,55	62,763	62,808	62,781	62,859	62,807	62,936	62,846	63,063	1,853
35	3,55	64,697	64,741	64,715	64,793	64,741	64,869	64,781	64,996	1,847
36	3,55	66,768	66,812	66,786	66,864	66,812	66,941	66,852	67,068	1,845
37	3,55	68,705	68,749	68,724	68,801	68,750	68,878	68,790	69,005	1,840
38	3,55	70,772	70,817	70,791	70,868	70,817	70,945	70,858	71,073	1,838
39	3,55	72,713	72,757	72,731	72,808	72,758	72,886	72,799	73,014	1,833
40	3,55	74,777	74,820	74,795	74,872	74,822	74,950	74,863	75,078	1,831
41	3,75	76,088	76,132	76,107	76,185	76,134	76,264	76,176	76,395	1,862
42	3,75	78,149	78,193	78,168	78,246	78,196	78,326	78,238	78,457	1,859
43	3,75	80,096	80,140	80,115	80,193	80,143	80,272	80,185	80,404	1,855
44	3,75	82,154	82,198	82,174	82,251	82,201	82,331	82,244	82,463	1,852
45	3,75	84,103	84,147	84,123	84,200	84,150	84,280	84,193	84,412	1,848
46	3,75	86,159	86,202	86,178	86,256	86,206	86,336	86,250	86,468	1,846
47	3,75	88,109	88,153	88,129	88,207	88,157	88,286	88,201	88,419	1,842
48	3,75	90,163	90,206	90,183	90,260	90,211	90,340	90,255	90,473	1,840
49	3,75	92,116	92,159	92,136	92,213	92,164	92,293	92,208	92,426	1,837
50	3,75	94,167	94,210	94,187	94,264	94,216	94,344	94,260	94,478	1,835
51	3,75	96,121	96,164	96,142	96,218	96,170	96,299	96,214	96,432	1,832
52	3,75	98,170	98,213	98,191	98,267	98,220	98,348	98,264	98,482	1,830
53	3,75	100,126	100,169	100,147	100,223	100,176	100,304	100,221	100,438	1,827
54	3,75	102,174	102,217	102,194	102,271	102,224	102,352	102,268	102,486	1,826
55	3,75	104,131	104,174	104,152	104,228	104,181	104,309	104,226	104,444	1,823
56	3,75	106,177	106,219	106,198	106,274	106,227	106,355	106,272	106,490	1,822
57	3,75	108,136	108,178	108,157	108,233	108,186	108,314	108,232	108,449	1,820
58	3,75	110,180	110,222	110,201	110,277	110,231	110,358	110,276	110,494	1,819
59	3,75	112,140	112,182	112,161	112,237	112,191	112,319	112,237	112,454	1,816
60	3,75	114,182	114,225	114,204	114,279	114,234	114,361	114,280	114,497	1,815
61	3,75	116,144	116,186	116,165	116,241	116,196	116,323	116,242	116,459	1,813
62	3,75	118,185	118,227	118,207	118,282	118,237	118,364	118,284	118,501	1,812
63	3,75	120,148	120,190	120,169	120,245	120,200	120,327	120,247	120,464	1,810
64	3,75	122,187	122,229	122,209	122,284	122,240	122,367	122,287	122,504	1,809
65	3,75	124,151	124,193	124,173	124,248	124,204	124,331	124,251	124,468	1,807
66	3,75	126,190	126,231	126,212	126,287	126,243	126,370	126,290	126,507	1,807
67	3,75	128,155	128,196	128,177	128,252	128,208	128,335	128,255	128,473	1,805
68	3,75	130,192	130,233	130,214	130,289	130,245	130,372	130,293	130,510	1,804
69	3,75	132,158	132,199	132,180	132,255	132,211	132,338	132,259	132,477	1,802
70	3,75	134,194	134,235	134,216	134,291	134,248	134,375	134,296	134,513	1,802
71	3,75	136,161	136,202	136,183	136,258	136,215	136,341	136,263	136,480	1,800
72	3,75	138,196	138,237	138,219	138,293	138,250	138,377	138,299	138,516	1,800
73	3,75	140,164	140,205	140,186	140,261	140,218	140,345	140,267	140,484	1,798
74	3,75	142,198	142,239	142,221	142,295	142,253	142,379	142,302	142,519	1,797
75	3,75	144,166	144,207	144,189	144,264	144,221	144,348	144,271	144,488	1,796
76	3,75	146,200	146,241	146,223	146,297	146,255	146,381	146,304	146,522	1,795
77	3,75	148,169	148,210	148,192	148,266	148,224	148,351	148,274	148,491	1,794
78	3,75	150,201	150,242	150,225	150,299	150,257	150,383	150,307	150,524	1,794
79	3,75	152,171	152,212	152,195	152,269	152,227	152,354	152,278	152,495	1,792
80	3,75	154,203	154,244	154,226	154,300	154,259	154,385	154,310	154,527	1,792
81	3,75	156,174	156,214	156,197	156,271	156,230	156,356	156,281	156,498	1,791
82	3,75	158,205	158,245	158,228	158,302	158,261	158,387	158,312	158,529	1,790
83	3,75	160,176	160,216	160,200	160,273	160,233	160,359	160,284	160,501	1,789
84	3,75	162,206	162,246	162,230	162,304	162,263	162,389	162,314	162,532	1,789
85	3,75	164,178	164,218	164,202	164,276	164,236	164,361	164,287	164,504	1,788
86	3,75	166,208	166,248	166,232	166,305	166,265	166,391	166,317	166,534	1,787
87	3,75	168,180	168,220	168,204	168,278	168,238	168,364	168,290	168,507	1,786
88	3,75	170,209	170,249	170,233	170,307	170,267	170,393	170,319	170,536	1,786
89	3,75	172,182	172,222	172,207	172,280	172,241	172,366	172,293	172,510	1,785
90	3,75	174,210	174,250	174,235	174,308	174,269	174,395	174,321	174,539	1,784
91	3,75	176,184	176,224	176,209	176,282	176,243	176,369	176,296	176,513	1,784
92	3,75	178,212	178,252	178,236	178,309	178,271	178,396	178,323	178,541	1,783
93	3,75	180,186	180,226	180,211	180,284	180,245	180,371	180,298	180,516	1,782
94	3,75	182,213	182,253	182,238	182,311	182,273	182,398	182,326	182,543	1,782
95	3,75	184,188	184,228	184,213	184,286	184,248	184,373	184,301	184,518	1,781
96	3,75	186,214	186,254	186,239	186,312	186,274	186,400	186,328	186,545	1,781
97	3,75	188,190	188,229	188,215	188,288	188,250	188,375	188,303	188,521	1,780
98	3,75	190,216	190,255	190,241	190,313	190,276	190,401	190,330	190,547	1,780
99	3,75	192,191	192,231	192,217	192,289	192,252	192,377	192,306	192,523	1,779
100	3,75	194,217	194,256	194,242	194,315	194,277	194,403	194,332	194,549	1,779

Table 28 — Inspection dimensions external spline, $\alpha = 30°$, $m = 2$, flat or fillet root, $S_{v\,max} = 3{,}142$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	4,50	19,304	19,332	19,277	19,324	19,236	19,313	19,168	19,295	1,227
7	4,25	20,329	20,358	20,301	20,350	20,258	20,338	20,188	20,319	1,259
8	4,25	22,779	22,810	22,749	22,801	22,704	22,788	22,629	22,768	1,318
9	4,25	24,498	24,529	24,467	24,520	24,422	24,507	24,346	24,486	1,322
10	4,25	26,837	26,869	26,805	26,859	26,758	26,846	26,679	26,824	1,363
11	4,00	27,964	27,997	27,931	27,987	27,882	27,973	27,799	27,950	1,405
12	4,00	30,226	30,260	30,192	30,250	30,142	30,235	30,056	30,211	1,436
13	4,00	32,034	32,068	32,000	32,058	31,949	32,043	31,862	32,019	1,440
14	4,00	34,253	34,287	34,218	34,276	34,165	34,261	34,076	34,236	1,464
15	4,00	36,087	36,122	36,052	36,111	35,998	36,095	35,909	36,070	1,468
16	4,00	38,274	38,309	38,238	38,298	38,183	38,281	38,092	38,255	1,487
17	4,00	40,128	40,164	40,092	40,152	40,036	40,135	39,944	40,109	1,491
18	4,00	42,291	42,327	42,254	42,315	42,198	42,298	42,104	42,271	1,506
19	4,00	44,161	44,197	44,124	44,185	44,067	44,168	43,972	44,140	1,510
20	4,00	46,306	46,342	46,268	46,330	46,210	46,312	46,114	46,284	1,523
21	4,00	48,188	48,225	48,150	48,212	48,092	48,194	47,994	48,166	1,526
22	4,00	50,318	50,355	50,279	50,342	50,220	50,323	50,122	50,295	1,537
23	4,00	52,211	52,247	52,171	52,234	52,112	52,216	52,013	52,187	1,540
24	4,00	54,329	54,365	54,289	54,352	54,229	54,333	54,128	54,303	1,550
25	4,00	56,230	56,267	56,190	56,253	56,129	56,234	56,028	56,204	1,552
26	4,00	58,338	58,375	58,297	58,361	58,236	58,341	58,134	58,311	1,561
27	4,00	60,247	60,283	60,206	60,270	60,144	60,250	60,041	60,219	1,563
28	4,00	62,346	62,383	62,304	62,369	62,242	62,349	62,138	62,317	1,570
29	3,75	63,556	63,594	63,514	63,580	63,450	63,559	63,344	63,527	1,601
30	3,75	65,646	65,684	65,604	65,670	65,539	65,649	65,432	65,616	1,607
31	3,75	67,567	67,604	67,523	67,590	67,459	67,568	67,351	67,535	1,609
32	3,75	69,650	69,688	69,607	69,673	69,542	69,652	69,433	69,619	1,614
33	3,75	71,575	71,613	71,532	71,598	71,466	71,577	71,357	71,543	1,615
34	3,75	73,654	73,692	73,610	73,677	73,544	73,655	73,434	73,621	1,620
35	3,75	75,583	75,621	75,539	75,606	75,473	75,584	75,362	75,549	1,621
36	3,75	77,657	77,695	77,613	77,679	77,546	77,657	77,434	77,622	1,625
37	3,75	79,590	79,628	79,545	79,612	79,478	79,590	79,366	79,555	1,626
38	3,75	81,660	81,698	81,615	81,682	81,547	81,659	81,434	81,624	1,630
39	3,75	83,596	83,634	83,551	83,618	83,483	83,595	83,370	83,560	1,631
40	3,75	85,662	85,701	85,617	85,684	85,548	85,661	85,434	85,625	1,635
41	3,75	87,602	87,640	87,556	87,624	87,487	87,600	87,373	87,564	1,636
42	3,75	89,664	89,703	89,619	89,686	89,549	89,662	89,434	89,626	1,639
43	3,75	91,607	91,645	91,561	91,628	91,491	91,604	91,375	91,567	1,640
44	3,75	93,666	93,705	93,620	93,688	93,550	93,664	93,434	93,626	1,643
45	3,75	95,611	95,650	95,565	95,633	95,495	95,608	95,378	95,571	1,644
46	3,75	97,668	97,707	97,621	97,689	97,551	97,665	97,433	97,627	1,646
47	3,75	99,616	99,654	99,569	99,636	99,498	99,612	99,380	99,574	1,647
48	3,75	101,670	101,708	101,623	101,691	101,552	101,666	101,433	101,627	1,650
49	3,75	103,619	103,658	103,572	103,640	103,501	103,615	103,381	103,576	1,650
50	3,75	105,671	105,710	105,624	105,692	105,552	105,667	105,432	105,627	1,653
51	3,75	107,623	107,661	107,575	107,643	107,503	107,618	107,383	107,578	1,653
52	3,75	109,673	109,711	109,625	109,693	109,552	109,667	109,432	109,628	1,655
53	3,75	111,626	111,664	111,578	111,646	111,505	111,620	111,384	111,580	1,656
54	3,75	113,674	113,712	113,626	113,694	113,553	113,668	113,431	113,628	1,658
55	3,75	115,629	115,667	115,580	115,649	115,507	115,622	115,385	115,582	1,659
56	3,75	117,675	117,713	117,626	117,695	117,553	117,668	117,430	117,627	1,661
57	3,75	119,632	119,670	119,583	119,651	119,509	119,624	119,386	119,583	1,661
58	3,75	121,676	121,714	121,627	121,695	121,553	121,669	121,430	121,627	1,663
59	3,75	123,634	123,672	123,585	123,653	123,511	123,626	123,387	123,585	1,663
60	3,75	125,677	125,715	125,628	125,696	125,553	125,669	125,429	125,627	1,665
61	3,75	127,637	127,675	127,587	127,655	127,512	127,628	127,387	127,586	1,665
62	3,75	129,678	129,716	129,628	129,697	129,553	129,669	129,428	129,627	1,667
63	3,75	131,639	131,677	131,589	131,657	131,513	131,630	131,388	131,587	1,667
64	3,75	133,679	133,717	133,629	133,697	133,553	133,669	133,427	133,626	1,669
65	3,75	135,641	135,679	135,590	135,659	135,515	135,631	135,388	135,588	1,669
66	3,75	137,680	137,718	137,629	137,698	137,553	137,669	137,426	137,626	1,671
67	3,75	139,643	139,681	139,592	139,660	139,516	139,632	139,388	139,588	1,671
68	3,75	141,680	141,718	141,629	141,698	141,553	141,669	141,425	141,626	1,672
69	3,75	143,644	143,682	143,593	143,662	143,517	143,633	143,388	143,589	1,673
70	3,75	145,681	145,719	145,630	145,698	145,553	145,669	145,424	145,625	1,674
71	3,75	147,646	147,684	147,595	147,663	147,517	147,634	147,389	147,590	1,674
72	3,75	149,682	149,719	149,630	149,699	149,553	149,669	149,423	149,625	1,676
73	3,75	151,648	151,685	151,596	151,665	151,518	151,635	151,389	151,590	1,676
74	3,75	153,682	153,720	153,630	153,699	153,552	153,669	153,422	153,624	1,677
75	3,75	155,649	155,687	155,597	155,666	155,519	155,636	155,388	155,590	1,677
76	3,75	157,683	157,720	157,630	157,699	157,552	157,669	157,421	157,623	1,678
77	3,75	159,650	159,688	159,598	159,667	159,519	159,637	159,388	159,591	1,679
78	3,75	161,683	161,721	161,631	161,699	161,552	161,669	161,420	161,623	1,680
79	3,75	163,652	163,689	163,599	163,668	163,520	163,637	163,388	163,591	1,680
80	3,75	165,683	165,721	165,631	165,699	165,551	165,669	165,419	165,622	1,681
81	3,75	167,653	167,690	167,600	167,669	167,520	167,638	167,388	167,591	1,681
82	3,75	169,684	169,721	169,631	169,699	169,551	169,669	169,418	169,621	1,682
83	3,75	171,654	171,691	171,601	171,669	171,521	171,638	171,388	171,591	1,683
84	3,75	173,684	173,722	173,631	173,700	173,551	173,668	173,417	173,621	1,683
85	3,75	175,655	175,692	175,602	175,670	175,521	175,639	175,387	175,591	1,684
86	3,75	177,684	177,722	177,631	177,700	177,550	177,668	177,416	177,620	1,684
87	3,75	179,656	179,693	179,602	179,671	179,522	179,639	179,387	179,591	1,685
88	3,75	181,685	181,722	181,631	181,700	181,550	181,668	181,415	181,619	1,686
89	3,75	183,657	183,694	183,603	183,672	183,522	183,640	183,386	183,591	1,686
90	3,75	185,685	185,722	185,631	185,700	185,550	185,668	185,414	185,619	1,687
91	3,75	187,658	187,695	187,604	187,672	187,522	187,640	187,386	187,591	1,687
92	3,75	189,685	189,723	189,631	189,700	189,549	189,667	189,413	189,618	1,688
93	3,75	191,659	191,696	191,604	191,673	191,522	191,640	191,386	191,591	1,688
94	3,75	193,686	193,723	193,631	193,699	193,549	193,667	193,412	193,617	1,688
95	3,75	195,659	195,697	195,605	195,673	195,522	195,640	195,385	195,590	1,689
96	3,75	197,686	197,723	197,631	197,699	197,548	197,667	197,411	197,616	1,689
97	3,75	199,660	199,697	199,605	199,674	199,522	199,641	199,385	199,590	1,690
98	3,75	201,686	201,723	201,631	201,699	201,548	201,666	201,410	201,615	1,690
99	3,75	203,661	203,698	203,606	203,674	203,523	203,641	203,384	203,590	1,690
100	3,75	205,686	205,723	205,631	205,699	205,547	205,666	205,409	205,615	1,691

5.8 30° pressure angle, module 2,5

Table 29 — Geometry internal spline, $\alpha = 30°$, $m = 2{,}5$, flat and fillet root, $E_{v\,min} = 3{,}927$

z	D	D_b	$D_{ei\,max}$ Fillet root	$D_{ei\,max}$ Flat	$D_{Fi\,min}$	$D_{Ii\,min}$	E_{max}			
							4H	5H	6H	7H
6	15,00	12,9904	19,78	19,03	18,00	13,58	3,967	3,991	4,027	4,086
7	17,50	15,1554	22,28	21,53	20,50	15,90	3,967	3,992	4,028	4,089
8	20,00	17,3205	24,78	24,03	23,00	18,28	3,968	3,993	4,029	4,091
9	22,50	19,4856	27,29	26,54	25,50	20,68	3,968	3,993	4,031	4,093
10	25,00	21,6506	29,79	29,04	28,00	23,11	3,969	3,994	4,032	4,095
11	27,50	23,8157	32,29	31,54	30,50	25,54	3,969	3,995	4,033	4,097
12	30,00	25,9808	34,80	34,05	33,00	28,00	3,970	3,996	4,034	4,098
13	32,50	28,1458	37,30	36,55	35,50	30,45	3,970	3,996	4,035	4,100
14	35,00	30,3109	39,80	39,05	38,00	32,92	3,971	3,997	4,036	4,102
15	37,50	32,4760	42,30	41,55	40,50	35,39	3,971	3,997	4,037	4,103
16	40,00	34,6410	44,81	44,06	43,00	37,86	3,971	3,998	4,038	4,104
17	42,50	36,8061	47,31	46,56	45,50	40,34	3,972	3,998	4,039	4,106
18	45,00	38,9711	49,81	49,06	48,00	42,82	3,972	3,999	4,040	4,107
19	47,50	41,1362	52,31	51,56	50,50	45,30	3,972	4,000	4,040	4,108
20	50,00	43,3013	54,82	54,07	53,00	47,79	3,973	4,000	4,041	4,110
21	52,50	45,4663	57,32	56,57	55,50	50,27	3,973	4,000	4,042	4,111
22	55,00	47,6314	59,82	59,07	58,00	52,76	3,973	4,001	4,043	4,112
23	57,50	49,7965	62,32	61,57	60,50	55,25	3,973	4,001	4,043	4,113
24	60,00	51,9615	64,82	64,07	63,00	57,74	3,974	4,002	4,044	4,114
25	62,50	54,1266	67,33	66,58	65,50	60,23	3,974	4,002	4,045	4,115
26	65,00	56,2917	69,83	69,08	68,00	62,72	3,974	4,003	4,045	4,116
27	67,50	58,4567	72,33	71,58	70,50	65,21	3,975	4,003	4,046	4,117
28	70,00	60,6218	74,83	74,08	73,00	67,70	3,975	4,003	4,047	4,118
29	72,50	62,7868	77,33	76,58	75,50	70,19	3,975	4,004	4,047	4,119
30	75,00	64,9519	79,83	79,08	78,00	72,69	3,975	4,004	4,048	4,120
31	77,50	67,1170	82,34	81,59	80,50	75,18	3,976	4,005	4,048	4,121
32	80,00	69,2820	84,84	84,09	83,00	77,68	3,976	4,005	4,049	4,122
33	82,50	71,4471	87,34	86,59	85,50	80,17	3,976	4,005	4,049	4,123
34	85,00	73,6122	89,84	89,09	88,00	82,66	3,976	4,006	4,050	4,124
35	87,50	75,7772	92,34	91,59	90,50	85,16	3,976	4,006	4,051	4,125
36	90,00	77,9423	94,84	94,09	93,00	87,66	3,977	4,006	4,051	4,125
37	92,50	80,1073	97,35	96,60	95,50	90,15	3,977	4,007	4,052	4,126
38	95,00	82,2724	99,85	99,10	98,00	92,65	3,977	4,007	4,052	4,127
39	97,50	84,4375	102,35	101,60	100,50	95,14	3,977	4,007	4,053	4,128
40	100,00	86,6025	104,85	104,10	103,00	97,64	3,977	4,008	4,053	4,129
41	102,50	88,7676	107,35	106,60	105,50	100,14	3,978	4,008	4,054	4,130
42	105,00	90,9327	109,85	109,10	108,00	102,63	3,978	4,008	4,054	4,130
43	107,50	93,0977	112,35	111,60	110,50	105,13	3,978	4,009	4,055	4,131
44	110,00	95,2628	114,85	114,10	113,00	107,63	3,978	4,009	4,055	4,132
45	112,50	97,4279	117,36	116,61	115,50	110,12	3,978	4,009	4,056	4,133
46	115,00	99,5929	119,86	119,11	118,00	112,62	3,979	4,010	4,056	4,133
47	117,50	101,7580	122,36	121,61	120,50	115,12	3,979	4,010	4,056	4,134
48	120,00	103,9230	124,86	124,11	123,00	117,62	3,979	4,010	4,057	4,135
49	122,50	106,0881	127,36	126,61	125,50	120,11	3,979	4,010	4,057	4,136
50	125,00	108,2532	129,86	129,11	128,00	122,61	3,979	4,011	4,058	4,136
51	127,50	110,4182	132,36	131,61	130,50	125,11	3,979	4,011	4,058	4,137
52	130,00	112,5833	134,86	134,11	133,00	127,61	3,980	4,011	4,059	4,138
53	132,50	114,7484	137,37	136,62	135,50	130,10	3,980	4,012	4,059	4,138
54	135,00	116,9134	139,87	139,12	138,00	132,60	3,980	4,012	4,059	4,139
55	137,50	119,0785	142,37	141,62	140,50	135,10	3,980	4,012	4,060	4,140
56	140,00	121,2436	144,87	144,12	143,00	137,60	3,980	4,012	4,060	4,140
57	142,50	123,4086	147,37	146,62	145,50	140,10	3,980	4,013	4,061	4,141
58	145,00	125,5737	149,87	149,12	148,00	142,60	3,981	4,013	4,061	4,142
59	147,50	127,7387	152,37	151,62	150,50	145,09	3,981	4,013	4,062	4,142
60	150,00	129,9038	154,87	154,12	153,00	147,59	3,981	4,013	4,062	4,143
61	152,50	132,0689	157,37	156,62	155,50	150,09	3,981	4,014	4,062	4,143
62	155,00	134,2339	159,88	159,13	158,00	152,59	3,981	4,014	4,063	4,144
63	157,50	136,3990	162,38	161,63	160,50	155,09	3,981	4,014	4,063	4,145
64	160,00	138,5641	164,88	164,13	163,00	157,59	3,982	4,014	4,063	4,145
65	162,50	140,7291	167,38	166,63	165,50	160,08	3,982	4,015	4,064	4,146
66	165,00	142,8942	169,88	169,13	168,00	162,58	3,982	4,015	4,064	4,147
67	167,50	145,0593	172,38	171,63	170,50	165,08	3,982	4,015	4,065	4,147
68	170,00	147,2243	174,88	174,13	173,00	167,58	3,982	4,015	4,065	4,148
69	172,50	149,3894	177,38	176,63	175,50	170,08	3,982	4,016	4,065	4,148
70	175,00	151,5544	179,88	179,13	178,00	172,58	3,982	4,016	4,066	4,149
71	177,50	153,7195	182,39	181,64	180,50	175,08	3,983	4,016	4,066	4,149
72	180,00	155,8846	184,89	184,14	183,00	177,58	3,983	4,016	4,066	4,150
73	182,50	158,0496	187,39	186,64	185,50	180,08	3,983	4,016	4,067	4,151
74	185,00	160,2147	189,89	189,14	188,00	182,57	3,983	4,017	4,067	4,151
75	187,50	162,3798	192,39	191,64	190,50	185,07	3,983	4,017	4,067	4,152
76	190,00	164,5448	194,89	194,14	193,00	187,57	3,983	4,017	4,068	4,152
77	192,50	166,7099	197,39	196,64	195,50	190,07	3,983	4,017	4,068	4,153
78	195,00	168,8750	199,89	199,14	198,00	192,57	3,984	4,018	4,069	4,153
79	197,50	171,0400	202,39	201,64	200,50	195,07	3,984	4,018	4,069	4,154
80	200,00	173,2051	204,89	204,14	203,00	197,57	3,984	4,018	4,069	4,154
81	202,50	175,3701	207,39	206,64	205,50	200,07	3,984	4,018	4,070	4,155
82	205,00	177,5352	209,90	209,15	208,00	202,57	3,984	4,018	4,070	4,156
83	207,50	179,7003	212,40	211,65	210,50	205,07	3,984	4,019	4,070	4,156
84	210,00	181,8653	214,90	214,15	213,00	207,57	3,984	4,019	4,071	4,157
85	212,50	184,0304	217,40	216,65	215,50	210,06	3,985	4,019	4,071	4,157
86	215,00	186,1955	219,90	219,15	218,00	212,56	3,985	4,019	4,071	4,158
87	217,50	188,3605	222,40	221,65	220,50	215,06	3,985	4,019	4,071	4,158
88	220,00	190,5256	224,90	224,15	223,00	217,56	3,985	4,020	4,072	4,159
89	222,50	192,6907	227,40	226,65	225,50	220,06	3,985	4,020	4,072	4,159
90	225,00	194,8557	229,90	229,15	228,00	222,56	3,985	4,020	4,072	4,160
91	227,50	197,0208	232,40	231,65	230,50	225,06	3,985	4,020	4,073	4,160
92	230,00	199,1858	234,90	234,15	233,00	227,56	3,985	4,020	4,073	4,161
93	232,50	201,3509	237,41	236,66	235,50	230,06	3,986	4,021	4,073	4,161
94	235,00	203,5160	239,91	239,16	238,00	232,56	3,986	4,021	4,074	4,162
95	237,50	205,6810	242,41	241,66	240,50	235,06	3,986	4,021	4,074	4,162
96	240,00	207,8461	244,91	244,16	243,00	237,56	3,986	4,021	4,074	4,163
97	242,50	210,0112	247,41	246,66	245,50	240,06	3,986	4,021	4,075	4,163
98	245,00	212,1762	249,91	249,16	248,00	242,56	3,986	4,022	4,075	4,164
99	247,50	214,3413	252,41	251,66	250,50	245,06	3,986	4,022	4,075	4,164
100	250,00	216,5064	254,91	254,16	253,00	247,55	3,986	4,022	4,076	4,165

Table 30 — Geometry external spline, $\alpha = 30°$, $m = 2{,}5$, flat and fillet root, $S_{v\,max} = 3{,}927$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$ Fillet root	$D_{ie\,min}$ Flat	S_{min}			
							4h	5h	6h	7h
6	15,00	12,9904	17,50	13,08	10,22	10,97	3,887	3,863	3,827	3,768
7	17,50	15,1554	20,00	15,40	12,72	13,47	3,887	3,862	3,826	3,765
8	20,00	17,3205	22,50	17,78	15,22	15,97	3,886	3,861	3,825	3,763
9	22,50	19,4856	25,00	20,18	17,71	18,46	3,886	3,861	3,823	3,761
10	25,00	21,6506	27,50	22,61	20,21	20,96	3,885	3,860	3,822	3,759
11	27,50	23,8157	30,00	25,04	22,71	23,46	3,885	3,859	3,821	3,757
12	30,00	25,9808	32,50	27,50	25,20	25,95	3,884	3,858	3,820	3,756
13	32,50	28,1458	35,00	29,95	27,70	28,45	3,884	3,858	3,819	3,754
14	35,00	30,3109	37,50	32,42	30,20	30,95	3,883	3,857	3,818	3,752
15	37,50	32,4760	40,00	34,89	32,70	33,45	3,883	3,857	3,817	3,751
16	40,00	34,6410	42,50	37,36	35,19	35,94	3,883	3,856	3,816	3,750
17	42,50	36,8061	45,00	39,84	37,69	38,44	3,882	3,856	3,815	3,748
18	45,00	38,9711	47,50	42,32	40,19	40,94	3,882	3,855	3,814	3,747
19	47,50	41,1362	50,00	44,80	42,69	43,44	3,882	3,854	3,814	3,746
20	50,00	43,3013	52,50	47,29	45,18	45,93	3,881	3,854	3,813	3,744
21	52,50	45,4663	55,00	49,77	47,68	48,43	3,881	3,854	3,812	3,743
22	55,00	47,6314	57,50	52,26	50,18	50,93	3,881	3,853	3,811	3,742
23	57,50	49,7965	60,00	54,75	52,68	53,43	3,881	3,853	3,811	3,741
24	60,00	51,9615	62,50	57,24	55,18	55,93	3,880	3,852	3,810	3,740
25	62,50	54,1266	65,00	59,73	57,67	58,42	3,880	3,852	3,809	3,739
26	65,00	56,2917	67,50	62,22	60,17	60,92	3,880	3,851	3,809	3,738
27	67,50	58,4567	70,00	64,71	62,67	63,42	3,879	3,851	3,808	3,737
28	70,00	60,6218	72,50	67,20	65,17	65,92	3,879	3,851	3,807	3,736
29	72,50	62,7868	75,00	69,69	67,67	68,42	3,879	3,850	3,807	3,735
30	75,00	64,9519	77,50	72,19	70,17	70,92	3,879	3,850	3,806	3,734
31	77,50	67,1170	80,00	74,68	72,66	73,41	3,878	3,849	3,806	3,733
32	80,00	69,2820	82,50	77,18	75,16	75,91	3,878	3,849	3,805	3,732
33	82,50	71,4471	85,00	79,67	77,66	78,41	3,878	3,849	3,805	3,731
34	85,00	73,6122	87,50	82,16	80,16	80,91	3,878	3,848	3,804	3,730
35	87,50	75,7772	90,00	84,66	82,66	83,41	3,878	3,848	3,803	3,729
36	90,00	77,9423	92,50	87,16	85,16	85,91	3,877	3,848	3,803	3,729
37	92,50	80,1073	95,00	89,65	87,65	88,40	3,877	3,847	3,802	3,728
38	95,00	82,2724	97,50	92,15	90,15	90,90	3,877	3,847	3,802	3,727
39	97,50	84,4375	100,00	94,64	92,65	93,40	3,877	3,847	3,801	3,726
40	100,00	86,6025	102,50	97,14	95,15	95,90	3,877	3,846	3,801	3,725
41	102,50	88,7676	105,00	99,64	97,65	98,40	3,876	3,846	3,800	3,724
42	105,00	90,9327	107,50	102,13	100,15	100,90	3,876	3,846	3,800	3,724
43	107,50	93,0977	110,00	104,63	102,65	103,40	3,876	3,845	3,799	3,723
44	110,00	95,2628	112,50	107,13	105,15	105,90	3,876	3,845	3,799	3,722
45	112,50	97,4279	115,00	109,62	107,64	108,39	3,876	3,845	3,798	3,721
46	115,00	99,5929	117,50	112,12	110,14	110,89	3,875	3,844	3,798	3,721
47	117,50	101,7580	120,00	114,62	112,64	113,39	3,875	3,844	3,798	3,720
48	120,00	103,9230	122,50	117,12	115,14	115,89	3,875	3,844	3,797	3,719
49	122,50	106,0881	125,00	119,61	117,64	118,39	3,875	3,844	3,797	3,718
50	125,00	108,2532	127,50	122,11	120,14	120,89	3,875	3,843	3,796	3,718
51	127,50	110,4182	130,00	124,61	122,64	123,39	3,875	3,843	3,796	3,717
52	130,00	112,5833	132,50	127,11	125,14	125,89	3,874	3,843	3,795	3,716
53	132,50	114,7484	135,00	129,60	127,63	128,38	3,874	3,842	3,795	3,716
54	135,00	116,9134	137,50	132,10	130,13	130,88	3,874	3,842	3,795	3,715
55	137,50	119,0785	140,00	134,60	132,63	133,38	3,874	3,842	3,794	3,714
56	140,00	121,2436	142,50	137,10	135,13	135,88	3,874	3,842	3,794	3,714
57	142,50	123,4086	145,00	139,60	137,63	138,38	3,874	3,841	3,793	3,713
58	145,00	125,5737	147,50	142,10	140,13	140,88	3,873	3,841	3,793	3,712
59	147,50	127,7387	150,00	144,59	142,63	143,38	3,873	3,841	3,792	3,712
60	150,00	129,9038	152,50	147,09	145,13	145,88	3,873	3,841	3,792	3,711
61	152,50	132,0689	155,00	149,59	147,63	148,38	3,873	3,840	3,792	3,711
62	155,00	134,2339	157,50	152,09	150,12	150,87	3,873	3,840	3,791	3,710
63	157,50	136,3990	160,00	154,59	152,62	153,37	3,873	3,840	3,791	3,709
64	160,00	138,5641	162,50	157,09	155,12	155,87	3,872	3,840	3,791	3,709
65	162,50	140,7291	165,00	159,58	157,62	158,37	3,872	3,839	3,790	3,708
66	165,00	142,8942	167,50	162,08	160,12	160,87	3,872	3,839	3,790	3,707
67	167,50	145,0593	170,00	164,58	162,62	163,37	3,872	3,839	3,789	3,707
68	170,00	147,2243	172,50	167,08	165,12	165,87	3,872	3,839	3,789	3,706
69	172,50	149,3894	175,00	169,58	167,62	168,37	3,872	3,838	3,789	3,706
70	175,00	151,5544	177,50	172,08	170,12	170,87	3,872	3,838	3,788	3,705
71	177,50	153,7195	180,00	174,58	172,61	173,36	3,871	3,838	3,788	3,705
72	180,00	155,8846	182,50	177,08	175,11	175,86	3,871	3,838	3,788	3,704
73	182,50	158,0496	185,00	179,58	177,61	178,36	3,871	3,838	3,787	3,703
74	185,00	160,2147	187,50	182,07	180,11	180,86	3,871	3,837	3,787	3,703
75	187,50	162,3798	190,00	184,57	182,61	183,36	3,871	3,837	3,787	3,702
76	190,00	164,5448	192,50	187,07	185,11	185,86	3,871	3,837	3,786	3,702
77	192,50	166,7099	195,00	189,57	187,61	188,36	3,871	3,837	3,786	3,701
78	195,00	168,8750	197,50	192,07	190,11	190,86	3,870	3,836	3,785	3,701
79	197,50	171,0400	200,00	194,57	192,61	193,36	3,870	3,836	3,785	3,700
80	200,00	173,2051	202,50	197,07	195,11	195,86	3,870	3,836	3,785	3,700
81	202,50	175,3701	205,00	199,57	197,61	198,36	3,870	3,836	3,784	3,699
82	205,00	177,5352	207,50	202,07	200,10	200,85	3,870	3,836	3,784	3,698
83	207,50	179,7003	210,00	204,57	202,60	203,35	3,870	3,835	3,784	3,698
84	210,00	181,8653	212,50	207,07	205,10	205,85	3,870	3,835	3,783	3,697
85	212,50	184,0304	215,00	209,56	207,60	208,35	3,869	3,835	3,783	3,697
86	215,00	186,1955	217,50	212,06	210,10	210,85	3,869	3,835	3,783	3,696
87	217,50	188,3605	220,00	214,56	212,60	213,35	3,869	3,835	3,783	3,696
88	220,00	190,5256	222,50	217,06	215,10	215,85	3,869	3,834	3,782	3,695
89	222,50	192,6907	225,00	219,56	217,60	218,35	3,869	3,834	3,782	3,695
90	225,00	194,8557	227,50	222,06	220,10	220,85	3,869	3,834	3,782	3,694
91	227,50	197,0208	230,00	224,56	222,60	223,35	3,869	3,834	3,781	3,694
92	230,00	199,1858	232,50	227,06	225,10	225,85	3,869	3,834	3,781	3,693
93	232,50	201,3509	235,00	229,56	227,59	228,34	3,868	3,833	3,781	3,693
94	235,00	203,5160	237,50	232,06	230,09	230,84	3,868	3,833	3,780	3,692
95	237,50	205,6810	240,00	234,56	232,59	233,34	3,868	3,833	3,780	3,692
96	240,00	207,8461	242,50	237,06	235,09	235,84	3,868	3,833	3,780	3,691
97	242,50	210,0112	245,00	239,56	237,59	238,34	3,868	3,833	3,779	3,691
98	245,00	212,1762	247,50	242,06	240,09	240,84	3,868	3,832	3,779	3,690
99	247,50	214,3413	250,00	244,56	242,59	243,34	3,868	3,832	3,779	3,690
100	250,00	216,5064	252,50	247,05	245,09	245,84	3,868	3,832	3,778	3,689

Table 31 — Inspection dimensions internal spline, $\alpha = 30°$, $m = 2{,}5$, flat or fillet root, $E_{v\,min} = 3{,}927$

z	D_{Ri}	Measurement over balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—	—
8	4,25	13,637	13,723	13,662	13,800	13,697	13,910	13,751	14,079	2,647
9	4,25	15,935	16,004	15,955	16,069	15,984	16,164	16,029	16,316	2,371
10	4,25	18,808	18,872	18,827	18,933	18,854	19,024	18,897	19,169	2,272
11	4,25	21,089	21,148	21,107	21,207	21,133	21,292	21,173	21,432	2,160
12	4,25	23,880	23,938	23,898	23,995	23,923	24,079	23,963	24,217	2,119
13	4,50	25,261	25,325	25,281	25,388	25,309	25,481	25,354	25,633	2,296
14	4,50	28,022	28,084	28,042	28,145	28,070	28,236	28,113	28,384	2,233
15	4,50	30,364	30,422	30,383	30,482	30,410	30,570	30,452	30,714	2,162
16	4,50	33,083	33,140	33,101	33,199	33,128	33,286	33,170	33,428	2,127
17	4,50	35,434	35,489	35,452	35,547	35,479	35,632	35,520	35,773	2,080
18	4,50	38,123	38,178	38,142	38,235	38,168	38,320	38,210	38,460	2,058
19	4,50	40,485	40,539	40,503	40,595	40,530	40,680	40,571	40,818	2,025
20	4,50	43,153	43,206	43,171	43,263	43,198	43,347	43,239	43,485	2,010
21	4,50	45,525	45,577	45,543	45,633	45,570	45,717	45,611	45,854	1,985
22	4,50	48,176	48,228	48,194	48,284	48,221	48,367	48,262	48,505	1,974
23	4,50	50,557	50,608	50,575	50,664	50,602	50,747	50,643	50,884	1,955
24	4,50	53,194	53,245	53,213	53,301	53,239	53,384	53,281	53,521	1,946
25	4,50	55,583	55,633	55,602	55,689	55,628	55,772	55,670	55,908	1,931
26	4,50	58,209	58,259	58,227	58,314	58,254	58,397	58,296	58,534	1,925
27	4,50	60,605	60,655	60,624	60,710	60,651	60,793	60,692	60,930	1,912
28	4,50	63,221	63,271	63,240	63,326	63,267	63,409	63,309	63,546	1,907
29	4,50	65,623	65,673	65,643	65,728	65,670	65,811	65,712	65,948	1,896
30	4,50	68,231	68,280	68,251	68,336	68,278	68,419	68,321	68,556	1,892
31	4,50	70,640	70,688	70,659	70,744	70,686	70,827	70,729	70,964	1,883
32	4,50	73,240	73,289	73,260	73,345	73,288	73,428	73,331	73,566	1,879
33	4,50	75,654	75,702	75,673	75,758	75,701	75,841	75,744	75,979	1,872
34	4,50	78,248	78,296	78,268	78,352	78,296	78,436	78,340	78,574	1,869
35	4,50	80,666	80,714	80,686	80,770	80,714	80,853	80,758	80,992	1,862
36	4,50	83,255	83,303	83,275	83,359	83,304	83,443	83,348	83,581	1,859
37	4,50	85,677	85,725	85,697	85,781	85,726	85,864	85,770	86,003	1,853
38	4,50	88,261	88,309	88,282	88,365	88,311	88,449	88,355	88,588	1,851
39	4,50	90,687	90,734	90,708	90,790	90,736	90,874	90,781	91,014	1,846
40	4,50	93,267	93,314	93,288	93,370	93,317	93,455	93,362	93,595	1,844
41	4,50	95,696	95,743	95,717	95,799	95,746	95,884	95,791	96,024	1,839
42	4,50	98,272	98,319	98,293	98,375	98,322	98,460	98,368	98,600	1,838
43	4,50	100,704	100,751	100,725	100,807	100,755	100,892	100,801	101,033	1,833
44	4,50	103,277	103,323	103,298	103,380	103,328	103,465	103,374	103,606	1,832
45	4,50	105,712	105,758	105,733	105,815	105,763	105,900	105,809	106,041	1,828
46	4,50	108,281	108,327	108,302	108,384	108,332	108,469	108,379	108,611	1,827
47	4,50	110,718	110,764	110,740	110,822	110,770	110,907	110,817	111,049	1,823
48	4,50	113,285	113,331	113,306	113,388	113,337	113,474	113,384	113,616	1,822
49	4,50	115,725	115,771	115,747	115,828	115,777	115,914	115,825	116,056	1,819
50	4,50	118,288	118,334	118,310	118,391	118,341	118,477	118,389	118,620	1,818
51	4,50	120,731	120,776	120,753	120,834	120,784	120,920	120,832	121,063	1,815
52	4,50	123,292	123,337	123,314	123,395	123,345	123,481	123,393	123,625	1,814
53	4,50	125,736	125,781	125,758	125,839	125,790	125,926	125,838	126,069	1,812
54	4,50	128,295	128,340	128,317	128,398	128,349	128,485	128,397	128,629	1,811
55	4,50	130,741	130,786	130,764	130,844	130,795	130,931	130,844	131,076	1,808
56	4,50	133,298	133,343	133,320	133,401	133,352	133,488	133,401	133,633	1,807
57	4,50	135,746	135,791	135,769	135,849	135,801	135,936	135,850	136,081	1,805
58	4,50	138,300	138,345	138,323	138,404	138,356	138,491	138,405	138,637	1,804
59	4,50	140,750	140,795	140,773	140,853	140,806	140,941	140,856	141,087	1,802
60	4,50	143,303	143,348	143,326	143,406	143,359	143,494	143,409	143,640	1,802
61	4,50	145,754	145,799	145,778	145,858	145,810	145,946	145,861	146,092	1,800
62	4,50	148,305	148,350	148,329	148,409	148,362	148,497	148,412	148,644	1,799
63	4,50	150,758	150,803	150,782	150,862	150,815	150,950	150,866	151,097	1,797
64	4,50	153,308	153,352	153,331	153,411	153,365	153,500	153,416	153,647	1,797
65	4,50	155,762	155,806	155,786	155,865	155,819	155,954	155,871	156,102	1,795
66	4,50	158,310	158,354	158,334	158,413	158,367	158,502	158,419	158,650	1,795
67	4,50	160,765	160,809	160,789	160,869	160,823	160,958	160,875	161,106	1,793
68	4,50	163,312	163,356	163,336	163,415	163,370	163,505	163,422	163,653	1,792
69	4,50	165,769	165,812	165,793	165,872	165,827	165,962	165,880	166,111	1,791
70	4,50	168,314	168,357	168,338	168,417	168,373	168,507	168,425	168,656	1,791
71	4,50	170,772	170,815	170,796	170,875	170,831	170,965	170,884	171,115	1,789
72	4,50	173,316	173,359	173,340	173,419	173,375	173,509	173,428	173,659	1,789
73	4,50	175,775	175,818	175,800	175,879	175,835	175,969	175,888	176,119	1,787
74	4,50	178,318	178,361	178,342	178,421	178,377	178,512	178,431	178,662	1,787
75	4,50	180,778	180,821	180,803	180,881	180,838	180,972	180,892	181,123	1,786
76	4,50	183,319	183,362	183,344	183,423	183,380	183,514	183,434	183,665	1,785
77	4,50	185,781	185,824	185,806	185,884	185,841	185,975	185,895	186,127	1,784
78	4,50	188,321	188,364	188,346	188,425	188,382	188,516	188,436	188,668	1,784
79	4,50	190,783	190,826	190,809	190,887	190,844	190,978	190,899	191,130	1,783
80	4,50	193,323	193,365	193,348	193,426	193,384	193,518	193,439	193,670	1,782
81	4,50	195,786	195,828	195,811	195,890	195,847	195,981	195,903	196,134	1,781
82	4,50	198,324	198,367	198,350	198,428	198,386	198,520	198,442	198,673	1,781
83	4,50	200,788	200,831	200,814	200,892	200,850	200,984	200,906	201,137	1,780
84	4,50	203,326	203,368	203,352	203,430	203,388	203,522	203,444	203,675	1,780
85	4,50	205,790	205,833	205,817	205,894	205,853	205,987	205,909	206,140	1,779
86	4,50	208,327	208,369	208,353	208,431	208,390	208,524	208,446	208,678	1,778
87	4,50	210,793	210,835	210,819	210,897	210,856	210,989	210,913	211,144	1,778
88	4,50	213,328	213,371	213,355	213,433	213,392	213,525	213,449	213,680	1,777
89	4,50	215,795	215,837	215,821	215,899	215,859	215,992	215,916	216,147	1,776
90	4,50	218,330	218,372	218,356	218,434	218,394	218,527	218,451	218,682	1,776
91	4,50	220,797	220,839	220,824	220,901	220,861	220,995	220,919	221,150	1,775
92	4,50	223,331	223,373	223,358	223,435	223,396	223,529	223,453	223,685	1,775
93	4,50	225,799	225,841	225,826	225,903	225,864	225,997	225,922	226,153	1,774
94	4,50	228,332	228,374	228,359	228,437	228,398	228,531	228,456	228,687	1,774
95	4,50	230,801	230,842	230,828	230,905	230,866	230,999	230,925	231,156	1,773
96	4,50	233,334	233,375	233,361	233,438	233,399	233,532	233,458	233,689	1,773
97	4,50	235,803	235,844	235,830	235,907	235,869	236,002	235,927	236,159	1,772
98	4,50	238,335	238,376	238,362	238,439	238,401	238,534	238,460	238,691	1,772
99	4,50	240,804	240,846	240,832	240,909	240,871	241,004	240,930	241,161	1,772
100	4,50	243,336	243,377	243,364	243,440	243,403	243,535	243,462	243,693	1,771

Table 32 — Inspection dimensions internal spline, $\alpha = 30°$, $m = 2{,}5$, flat or fillet root, $S_{v\,max} = 3{,}927$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	5,60	24,077	24,108	24,048	24,100	24,004	24,087	23,931	24,068	1,227
7	5,60	26,115	26,146	26,085	26,137	26,041	26,125	25,967	26,105	1,227
8	5,30	28,451	28,484	28,419	28,475	28,370	28,461	28,290	28,439	1,317
9	5,30	30,599	30,633	30,567	30,623	30,518	30,609	30,436	30,587	1,320
10	5,30	33,523	33,558	33,489	33,548	33,438	33,533	33,352	33,510	1,362
11	5,00	34,964	35,000	34,929	34,989	34,876	34,974	34,787	34,950	1,402
12	5,00	37,793	37,829	37,756	37,818	37,701	37,802	37,609	37,777	1,433
13	5,00	40,053	40,089	40,016	40,078	39,960	40,062	39,867	40,036	1,437
14	5,00	42,826	42,863	42,788	42,852	42,731	42,835	42,636	42,808	1,461
15	5,00	45,119	45,157	45,081	45,145	45,023	45,127	44,927	45,100	1,465
16	5,00	47,853	47,891	47,814	47,878	47,755	47,861	47,656	47,833	1,484
17	5,00	50,171	50,209	50,131	50,196	50,072	50,178	49,972	50,150	1,488
18	5,00	52,875	52,913	52,835	52,900	52,774	52,882	52,673	52,853	1,504
19	5,00	55,212	55,251	55,172	55,238	55,111	55,219	55,008	55,189	1,507
20	5,00	57,893	57,932	57,852	57,919	57,790	57,899	57,686	57,869	1,520
21	4,75	59,557	59,596	59,514	59,582	59,450	59,562	59,344	59,531	1,550
22	4,75	62,216	62,255	62,173	62,241	62,108	62,221	62,000	62,189	1,561
23	4,75	64,581	64,621	64,538	64,606	64,473	64,586	64,364	64,554	1,563
24	4,75	67,225	67,265	67,182	67,251	67,116	67,230	67,006	67,197	1,572
25	4,75	69,602	69,642	69,557	69,627	69,491	69,606	69,380	69,573	1,574
26	4,75	72,234	72,274	72,189	72,259	72,122	72,238	72,010	72,204	1,582
27	4,75	74,619	74,659	74,574	74,644	74,507	74,622	74,394	74,588	1,584
28	4,75	77,241	77,282	77,196	77,266	77,128	77,244	77,014	77,209	1,591
29	4,75	79,634	79,675	79,589	79,659	79,520	79,637	79,406	79,602	1,593
30	4,75	82,248	82,288	82,201	82,272	82,132	82,249	82,017	82,214	1,599
31	4,75	84,648	84,688	84,601	84,672	84,532	84,649	84,416	84,614	1,600
32	4,75	87,253	87,294	87,206	87,277	87,136	87,254	87,019	87,218	1,606
33	4,75	89,659	89,700	89,612	89,683	89,542	89,660	89,424	89,624	1,607
34	4,75	92,258	92,299	92,211	92,282	92,140	92,258	92,021	92,221	1,612
35	4,75	94,670	94,710	94,622	94,694	94,551	94,670	94,431	94,632	1,614
36	4,75	97,263	97,303	97,215	97,286	97,143	97,262	97,022	97,224	1,618
37	4,75	99,679	99,720	99,631	99,702	99,559	99,678	99,438	99,640	1,619
38	4,75	102,267	102,307	102,218	102,290	102,145	102,265	102,024	102,227	1,623
39	4,75	104,687	104,728	104,639	104,710	104,565	104,685	104,443	104,647	1,624
40	4,75	107,270	107,311	107,221	107,293	107,147	107,268	107,025	107,229	1,628
41	4,75	109,695	109,735	109,645	109,717	109,572	109,692	109,448	109,652	1,629
42	4,75	112,273	112,314	112,224	112,296	112,149	112,270	112,025	112,230	1,632
43	4,75	114,701	114,742	114,652	114,724	114,577	114,698	114,452	114,658	1,633
44	4,75	117,276	117,317	117,226	117,299	117,151	117,272	117,026	117,232	1,636
45	4,75	119,708	119,748	119,657	119,730	119,582	119,703	119,456	119,662	1,637
46	4,75	122,279	122,320	122,228	122,301	122,153	122,274	122,026	122,233	1,640
47	4,75	124,713	124,754	124,662	124,735	124,586	124,708	124,459	124,666	1,641
48	4,75	127,281	127,322	127,230	127,303	127,154	127,276	127,026	127,234	1,644
49	4,75	129,718	129,759	129,667	129,740	129,590	129,712	129,462	129,670	1,644
50	4,75	132,284	132,324	132,232	132,305	132,155	132,277	132,026	132,235	1,647
51	4,75	134,723	134,764	134,671	134,744	134,594	134,716	134,464	134,673	1,647
52	4,75	137,286	137,326	137,234	137,306	137,156	137,278	137,026	137,235	1,650
53	4,75	139,727	139,768	139,675	139,748	139,597	139,720	139,466	139,676	1,650
54	4,75	142,287	142,328	142,235	142,308	142,157	142,279	142,025	142,236	1,652
55	4,75	144,731	144,772	144,679	144,752	144,600	144,723	144,468	144,679	1,653
56	4,75	147,289	147,330	147,236	147,309	147,157	147,280	147,025	147,236	1,655
57	4,75	149,735	149,776	149,682	149,755	149,603	149,726	149,470	149,681	1,656
58	4,75	152,291	152,331	152,238	152,311	152,158	152,281	152,025	152,236	1,658
59	4,75	154,738	154,779	154,685	154,758	154,605	154,728	154,471	154,683	1,658
60	4,75	157,292	157,333	157,239	157,312	157,158	157,282	157,024	157,236	1,660
61	4,75	159,742	159,782	159,688	159,761	159,607	159,731	159,473	159,685	1,660
62	4,75	162,294	162,334	162,240	162,313	162,159	162,283	162,024	162,236	1,662
63	4,75	164,744	164,785	164,690	164,763	164,609	164,733	164,474	164,686	1,662
64	4,75	167,295	167,335	167,241	167,314	167,159	167,283	167,023	167,236	1,664
65	4,75	169,747	169,788	169,693	169,766	169,611	169,735	169,475	169,688	1,664
66	4,75	172,296	172,336	172,241	172,314	172,159	172,283	172,022	172,236	1,666
67	4,75	174,750	174,790	174,695	174,768	174,613	174,737	174,475	174,689	1,666
68	4,75	177,297	177,337	177,242	177,315	177,159	177,284	177,022	177,236	1,668
69	4,75	179,752	179,792	179,697	179,770	179,614	179,739	179,476	179,690	1,668
70	4,75	182,298	182,338	182,243	182,316	182,160	182,284	182,021	182,235	1,669
71	4,75	184,754	184,795	184,699	184,772	184,616	184,740	184,476	184,691	1,670
72	4,75	187,299	187,339	187,243	187,316	187,160	187,284	187,020	187,235	1,671
73	4,75	189,757	189,797	189,701	189,774	189,617	189,742	189,477	189,692	1,672
74	4,75	192,300	192,340	192,244	192,317	192,160	192,284	192,019	192,235	1,673
75	4,75	194,759	194,799	194,702	194,775	194,618	194,743	194,477	194,693	1,673
76	4,75	197,301	197,341	197,244	197,317	197,160	197,285	197,018	197,234	1,674
77	4,75	199,760	199,800	199,704	199,777	199,619	199,744	199,477	199,693	1,675
78	4,75	202,301	202,341	202,245	202,318	202,160	202,285	202,017	202,234	1,676
79	4,75	204,762	204,802	204,705	204,778	204,620	204,745	204,478	204,694	1,676
80	4,75	207,302	207,342	207,245	207,318	207,159	207,285	207,017	207,233	1,677
81	4,75	209,764	209,804	209,707	209,780	209,621	209,746	209,478	209,694	1,677
82	4,75	212,303	212,342	212,245	212,318	212,159	212,285	212,016	212,233	1,678
83	4,75	214,765	214,805	214,708	214,781	214,622	214,747	214,478	214,695	1,679
84	4,75	217,303	217,343	217,246	217,319	217,159	217,284	217,015	217,232	1,679
85	4,75	219,767	219,807	219,709	219,782	219,622	219,748	219,478	219,695	1,680
86	4,75	222,304	222,343	222,246	222,319	222,159	222,284	222,014	222,232	1,681
87	4,75	224,768	224,808	224,710	224,783	224,623	224,748	224,477	224,695	1,681
88	4,75	227,304	227,344	227,246	227,319	227,159	227,284	227,013	227,231	1,682
89	4,75	229,770	229,809	229,711	229,784	229,624	229,749	229,477	229,695	1,682
90	4,75	232,305	232,344	232,246	232,319	232,158	232,284	232,012	232,230	1,683
91	4,75	234,771	234,810	234,712	234,785	234,624	234,750	234,477	234,696	1,683
92	4,75	237,305	237,345	237,247	237,319	237,158	237,284	237,011	237,229	1,684
93	4,75	239,772	239,811	239,713	239,786	239,625	239,750	239,477	239,696	1,684
94	4,75	242,306	242,345	242,247	242,320	242,158	242,284	242,010	242,229	1,685
95	4,75	244,773	244,812	244,714	244,787	244,625	244,751	244,476	244,696	1,685
96	4,75	247,306	247,345	247,247	247,320	247,158	247,283	247,009	247,228	1,686
97	4,75	249,774	249,813	249,715	249,787	249,625	249,751	249,476	249,696	1,686
98	4,75	252,307	252,346	252,247	252,320	252,157	252,283	252,008	252,227	1,687
99	4,75	254,775	254,814	254,715	254,788	254,626	254,751	254,476	254,695	1,687
100	4,75	257,307	257,346	257,247	257,320	257,157	257,283	257,007	257,226	1,688

5.9 30° pressure angle, module 3

Table 33 — Geometry internal spline, $\alpha = 30°$, $m = 3$, flat and fillet root, $E_{v\,min} = 4{,}712$

z	D	D_b	$D_{ei\,max}$ Fillet root	$D_{ei\,max}$ Flat	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
							4H	5H	6H	7H
6	18,00	15,5885	23,69	22,79	21,60	16,29	4,754	4,780	4,818	4,881
7	21,00	18,1865	26,70	25,80	24,60	19,08	4,755	4,781	4,819	4,884
8	24,00	20,7846	29,70	28,80	27,60	21,93	4,756	4,782	4,821	4,886
9	27,00	23,3827	32,71	31,81	30,60	24,82	4,756	4,783	4,822	4,889
10	30,00	25,9808	35,71	34,81	33,60	27,73	4,757	4,783	4,824	4,891
11	33,00	28,5788	38,71	37,81	36,60	30,65	4,757	4,784	4,825	4,893
12	36,00	31,1769	41,72	40,82	39,60	33,59	4,758	4,785	4,826	4,894
13	39,00	33,7750	44,72	43,82	42,60	36,54	4,758	4,786	4,827	4,896
14	42,00	36,3731	47,72	46,82	45,60	39,50	4,758	4,786	4,828	4,898
15	45,00	38,9711	50,72	49,82	48,60	42,47	4,759	4,787	4,829	4,899
16	48,00	41,5692	53,73	52,83	51,60	45,44	4,759	4,788	4,830	4,901
17	51,00	44,1673	56,73	55,83	54,60	48,41	4,760	4,788	4,831	4,902
18	54,00	46,7654	59,73	58,83	57,60	51,38	4,760	4,789	4,832	4,904
19	57,00	49,3634	62,73	61,83	60,60	54,36	4,760	4,789	4,833	4,905
20	60,00	51,9615	65,74	64,84	63,60	57,34	4,761	4,790	4,833	4,906
21	63,00	54,5596	68,74	67,84	66,60	60,33	4,761	4,790	4,834	4,908
22	66,00	57,1577	71,74	70,84	69,60	63,31	4,761	4,791	4,835	4,909
23	69,00	59,7558	74,74	73,84	72,60	66,30	4,762	4,791	4,836	4,910
24	72,00	62,3538	77,75	76,85	75,60	69,28	4,762	4,792	4,837	4,911
25	75,00	64,9519	80,75	79,85	78,60	72,27	4,762	4,792	4,837	4,912
26	78,00	67,5500	83,75	82,85	81,60	75,26	4,762	4,793	4,838	4,913
27	81,00	70,1481	86,75	85,85	84,60	78,25	4,763	4,793	4,839	4,915
28	84,00	72,7461	89,75	88,85	87,60	81,24	4,763	4,793	4,839	4,916
29	87,00	75,3442	92,75	91,85	90,60	84,23	4,763	4,794	4,840	4,917
30	90,00	77,9423	95,76	94,86	93,60	87,22	4,763	4,794	4,841	4,918
31	93,00	80,5404	98,76	97,86	96,60	90,22	4,764	4,795	4,841	4,919
32	96,00	83,1384	101,76	100,86	99,60	93,21	4,764	4,795	4,842	4,920
33	99,00	85,7365	104,76	103,86	102,60	96,20	4,764	4,795	4,842	4,921
34	102,00	88,3346	107,76	106,86	105,60	99,20	4,764	4,796	4,843	4,922
35	105,00	90,9327	110,76	109,86	108,60	102,19	4,765	4,796	4,844	4,923
36	108,00	93,5307	113,77	112,87	111,60	105,19	4,765	4,797	4,844	4,924
37	111,00	96,1288	116,77	115,87	114,60	108,18	4,765	4,797	4,845	4,924
38	114,00	98,7269	119,77	118,87	117,60	111,18	4,765	4,797	4,845	4,925
39	117,00	101,3250	122,77	121,87	120,60	114,17	4,766	4,798	4,846	4,926
40	120,00	103,9230	125,77	124,87	123,60	117,17	4,766	4,798	4,846	4,927
41	123,00	106,5211	128,77	127,87	126,60	120,16	4,766	4,798	4,847	4,928
42	126,00	109,1192	131,78	130,88	129,60	123,16	4,766	4,799	4,847	4,929
43	129,00	111,7173	134,78	133,88	132,60	126,15	4,766	4,799	4,848	4,930
44	132,00	114,3154	137,78	136,88	135,60	129,15	4,767	4,799	4,848	4,930
45	135,00	116,9134	140,78	139,88	138,60	132,15	4,767	4,800	4,849	4,931
46	138,00	119,5115	143,78	142,88	141,60	135,14	4,767	4,800	4,849	4,932
47	141,00	122,1096	146,78	145,88	144,60	138,14	4,767	4,800	4,850	4,933
48	144,00	124,7077	149,78	148,88	147,60	141,14	4,767	4,801	4,850	4,934
49	147,00	127,3057	152,79	151,89	150,60	144,14	4,768	4,801	4,851	4,934
50	150,00	129,9038	155,79	154,89	153,60	147,13	4,768	4,801	4,851	4,935
51	153,00	132,5019	158,79	157,89	156,60	150,13	4,768	4,802	4,852	4,936
52	156,00	135,1000	161,79	160,89	159,60	153,13	4,768	4,802	4,852	4,937
53	159,00	137,6980	164,79	163,89	162,60	156,13	4,768	4,802	4,853	4,937
54	162,00	140,2961	167,79	166,89	165,60	159,12	4,769	4,802	4,853	4,938
55	165,00	142,8942	170,79	169,89	168,60	162,12	4,769	4,803	4,854	4,939
56	168,00	145,4923	173,79	172,89	171,60	165,12	4,769	4,803	4,854	4,940
57	171,00	148,0903	176,80	175,90	174,60	168,12	4,769	4,803	4,855	4,940
58	174,00	150,6884	179,80	178,90	177,60	171,11	4,769	4,804	4,855	4,941
59	177,00	153,2865	182,80	181,90	180,60	174,11	4,769	4,804	4,856	4,942
60	180,00	155,8846	185,80	184,90	183,60	177,11	4,770	4,804	4,856	4,942
61	183,00	158,4826	188,80	187,90	186,60	180,11	4,770	4,804	4,856	4,943
62	186,00	161,0807	191,80	190,90	189,60	183,11	4,770	4,805	4,857	4,944
63	189,00	163,6788	194,80	193,90	192,60	186,10	4,770	4,805	4,857	4,944
64	192,00	166,2769	197,80	196,90	195,60	189,10	4,770	4,805	4,858	4,945
65	195,00	168,8750	200,80	199,90	198,60	192,10	4,770	4,805	4,858	4,946
66	198,00	171,4730	203,81	202,91	201,60	195,10	4,771	4,806	4,858	4,946
67	201,00	174,0711	206,81	205,91	204,60	198,10	4,771	4,806	4,859	4,947
68	204,00	176,6692	209,81	208,91	207,60	201,10	4,771	4,806	4,859	4,948
69	207,00	179,2673	212,81	211,91	210,60	204,10	4,771	4,806	4,860	4,948
70	210,00	181,8653	215,81	214,91	213,60	207,09	4,771	4,807	4,860	4,949
71	213,00	184,4634	218,81	217,91	216,60	210,09	4,771	4,807	4,860	4,949
72	216,00	187,0615	221,81	220,91	219,60	213,09	4,772	4,807	4,861	4,950
73	219,00	189,6596	224,81	223,91	222,60	216,09	4,772	4,807	4,861	4,951
74	222,00	192,2576	227,81	226,91	225,60	219,09	4,772	4,808	4,862	4,951
75	225,00	194,8557	230,82	229,92	228,60	222,09	4,772	4,808	4,862	4,952
76	228,00	197,4538	233,82	232,92	231,60	225,09	4,772	4,808	4,862	4,953
77	231,00	200,0519	236,82	235,92	234,60	228,09	4,772	4,808	4,863	4,953
78	234,00	202,6499	239,82	238,92	237,60	231,08	4,772	4,809	4,863	4,954
79	237,00	205,2480	242,82	241,92	240,60	234,08	4,773	4,809	4,863	4,954
80	240,00	207,8461	245,82	244,92	243,60	237,08	4,773	4,809	4,864	4,955
81	243,00	210,4442	248,82	247,92	246,60	240,08	4,773	4,809	4,864	4,956
82	246,00	213,0422	251,82	250,92	249,60	243,08	4,773	4,810	4,865	4,956
83	249,00	215,6403	254,82	253,92	252,60	246,08	4,773	4,810	4,865	4,957
84	252,00	218,2384	257,82	256,92	255,60	249,08	4,773	4,810	4,865	4,957
85	255,00	220,8365	260,83	259,93	258,60	252,08	4,773	4,810	4,866	4,958
86	258,00	223,4346	263,83	262,93	261,60	255,08	4,774	4,811	4,866	4,958
87	261,00	226,0326	266,83	265,93	264,60	258,08	4,774	4,811	4,866	4,959
88	264,00	228,6307	269,83	268,93	267,60	261,07	4,774	4,811	4,867	4,959
89	267,00	231,2288	272,83	271,93	270,60	264,07	4,774	4,811	4,867	4,960
90	270,00	233,8269	275,83	274,93	273,60	267,07	4,774	4,811	4,867	4,961
91	273,00	236,4249	278,83	277,93	276,60	270,07	4,774	4,812	4,868	4,961
92	276,00	239,0230	281,83	280,93	279,60	273,07	4,774	4,812	4,868	4,962
93	279,00	241,6211	284,83	283,93	282,60	276,07	4,775	4,812	4,868	4,962
94	282,00	244,2192	287,83	286,93	285,60	279,07	4,775	4,812	4,869	4,963
95	285,00	246,8172	290,84	289,94	288,60	282,07	4,775	4,813	4,869	4,963
96	288,00	249,4153	293,84	292,94	291,60	285,07	4,775	4,813	4,869	4,964
97	291,00	252,0134	296,84	295,94	294,60	288,07	4,775	4,813	4,870	4,964
98	294,00	254,6115	299,84	298,94	297,60	291,07	4,775	4,813	4,870	4,965
99	297,00	257,2095	302,84	301,94	300,60	294,07	4,775	4,813	4,870	4,965
100	300,00	259,8076	305,84	304,94	303,60	297,07	4,775	4,814	4,871	4,966

Table 34 — Geometry external spline, $\alpha = 30°$, $m = 3$, flat and fillet root, $S_{v\,max} = 4{,}712$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$ Fillet root	$D_{ie\,min}$ Flat	S_{min}			
							4h	5h	6h	7h
6	18,00	15,5885	21,00	15,69	12,31	13,21	4,670	4,644	4,606	4,543
7	21,00	18,1865	24,00	18,48	15,30	16,20	4,669	4,643	4,605	4,540
8	24,00	20,7846	27,00	21,33	18,30	19,20	4,668	4,642	4,603	4,538
9	27,00	23,3827	30,00	24,22	21,29	22,19	4,668	4,641	4,602	4,535
10	30,00	25,9808	33,00	27,13	24,29	25,19	4,667	4,641	4,600	4,533
11	33,00	28,5788	36,00	30,05	27,29	28,19	4,667	4,640	4,599	4,531
12	36,00	31,1769	39,00	32,99	30,28	31,18	4,666	4,639	4,598	4,530
13	39,00	33,7750	42,00	35,94	33,28	34,18	4,666	4,638	4,597	4,528
14	42,00	36,3731	45,00	38,90	36,28	37,18	4,666	4,638	4,596	4,526
15	45,00	38,9711	48,00	41,87	39,28	40,18	4,665	4,637	4,595	4,525
16	48,00	41,5692	51,00	44,84	42,27	43,17	4,665	4,636	4,594	4,523
17	51,00	44,1673	54,00	47,81	45,27	46,17	4,664	4,636	4,593	4,522
18	54,00	46,7654	57,00	50,78	48,27	49,17	4,664	4,635	4,592	4,520
19	57,00	49,3634	60,00	53,76	51,27	52,17	4,664	4,635	4,591	4,519
20	60,00	51,9615	63,00	56,74	54,26	55,16	4,663	4,634	4,591	4,518
21	63,00	54,5596	66,00	59,73	57,26	58,16	4,663	4,634	4,590	4,516
22	66,00	57,1577	69,00	62,71	60,26	61,16	4,663	4,633	4,589	4,515
23	69,00	59,7558	72,00	65,70	63,26	64,16	4,662	4,633	4,588	4,514
24	72,00	62,3538	75,00	68,68	66,25	67,15	4,662	4,632	4,587	4,513
25	75,00	64,9519	78,00	71,67	69,25	70,15	4,662	4,632	4,587	4,512
26	78,00	67,5500	81,00	74,66	72,25	73,15	4,662	4,631	4,586	4,511
27	81,00	70,1481	84,00	77,65	75,25	76,15	4,661	4,631	4,585	4,509
28	84,00	72,7461	87,00	80,64	78,25	79,15	4,661	4,631	4,585	4,508
29	87,00	75,3442	90,00	83,63	81,25	82,15	4,661	4,630	4,584	4,507
30	90,00	77,9423	93,00	86,62	84,24	85,14	4,661	4,630	4,583	4,506
31	93,00	80,5404	96,00	89,62	87,24	88,14	4,660	4,629	4,583	4,505
32	96,00	83,1384	99,00	92,61	90,24	91,14	4,660	4,629	4,582	4,504
33	99,00	85,7365	102,00	95,60	93,24	94,14	4,660	4,629	4,582	4,503
34	102,00	88,3346	105,00	98,60	96,24	97,14	4,660	4,628	4,581	4,502
35	105,00	90,9327	108,00	101,59	99,24	100,14	4,659	4,628	4,580	4,501
36	108,00	93,5307	111,00	104,59	102,23	103,13	4,659	4,627	4,580	4,500
37	111,00	96,1288	114,00	107,58	105,23	106,13	4,659	4,627	4,579	4,500
38	114,00	98,7269	117,00	110,58	108,23	109,13	4,659	4,627	4,579	4,499
39	117,00	101,3250	120,00	113,57	111,23	112,13	4,658	4,626	4,578	4,498
40	120,00	103,9230	123,00	116,57	114,23	115,13	4,658	4,626	4,578	4,497
41	123,00	106,5211	126,00	119,56	117,23	118,13	4,658	4,626	4,577	4,496
42	126,00	109,1192	129,00	122,56	120,22	121,12	4,658	4,625	4,577	4,495
43	129,00	111,7173	132,00	125,55	123,22	124,12	4,658	4,625	4,576	4,494
44	132,00	114,3154	135,00	128,55	126,22	127,12	4,657	4,625	4,576	4,494
45	135,00	116,9134	138,00	131,55	129,22	130,12	4,657	4,624	4,575	4,493
46	138,00	119,5115	141,00	134,54	132,22	133,12	4,657	4,624	4,575	4,492
47	141,00	122,1096	144,00	137,54	135,22	136,12	4,657	4,624	4,574	4,491
48	144,00	124,7077	147,00	140,54	138,22	139,12	4,657	4,623	4,574	4,490
49	147,00	127,3057	150,00	143,54	141,21	142,11	4,656	4,623	4,573	4,490
50	150,00	129,9038	153,00	146,53	144,21	145,11	4,656	4,623	4,573	4,489
51	153,00	132,5019	156,00	149,53	147,21	148,11	4,656	4,622	4,572	4,488
52	156,00	135,1000	159,00	152,53	150,21	151,11	4,656	4,622	4,572	4,487
53	159,00	137,6980	162,00	155,53	153,21	154,11	4,656	4,622	4,571	4,487
54	162,00	140,2961	165,00	158,52	156,21	157,11	4,655	4,622	4,571	4,486
55	165,00	142,8942	168,00	161,52	159,21	160,11	4,655	4,621	4,570	4,485
56	168,00	145,4923	171,00	164,52	162,21	163,11	4,655	4,621	4,570	4,484
57	171,00	148,0903	174,00	167,52	165,20	166,10	4,655	4,621	4,569	4,484
58	174,00	150,6884	177,00	170,51	168,20	169,10	4,655	4,620	4,569	4,483
59	177,00	153,2865	180,00	173,51	171,20	172,10	4,655	4,620	4,568	4,482
60	180,00	155,8846	183,00	176,51	174,20	175,10	4,654	4,620	4,568	4,482
61	183,00	158,4826	186,00	179,51	177,20	178,10	4,654	4,620	4,568	4,481
62	186,00	161,0807	189,00	182,51	180,20	181,10	4,654	4,619	4,567	4,480
63	189,00	163,6788	192,00	185,50	183,20	184,10	4,654	4,619	4,567	4,480
64	192,00	166,2769	195,00	188,50	186,20	187,10	4,654	4,619	4,566	4,479
65	195,00	168,8750	198,00	191,50	189,20	190,10	4,654	4,619	4,566	4,478
66	198,00	171,4730	201,00	194,50	192,19	193,09	4,653	4,618	4,566	4,478
67	201,00	174,0711	204,00	197,50	195,19	196,09	4,653	4,618	4,565	4,477
68	204,00	176,6692	207,00	200,50	198,19	199,09	4,653	4,618	4,565	4,476
69	207,00	179,2673	210,00	203,50	201,19	202,09	4,653	4,618	4,564	4,476
70	210,00	181,8653	213,00	206,49	204,19	205,09	4,653	4,617	4,564	4,475
71	213,00	184,4634	216,00	209,49	207,19	208,09	4,653	4,617	4,564	4,475
72	216,00	187,0615	219,00	212,49	210,19	211,09	4,652	4,617	4,563	4,474
73	219,00	189,6596	222,00	215,49	213,19	214,09	4,652	4,617	4,563	4,473
74	222,00	192,2576	225,00	218,49	216,19	217,09	4,652	4,616	4,562	4,473
75	225,00	194,8557	228,00	221,49	219,18	220,08	4,652	4,616	4,562	4,472
76	228,00	197,4538	231,00	224,49	222,18	223,08	4,652	4,616	4,562	4,471
77	231,00	200,0519	234,00	227,49	225,18	226,08	4,652	4,616	4,561	4,471
78	234,00	202,6499	237,00	230,48	228,18	229,08	4,652	4,615	4,561	4,470
79	237,00	205,2480	240,00	233,48	231,18	232,08	4,651	4,615	4,561	4,470
80	240,00	207,8461	243,00	236,48	234,18	235,08	4,651	4,615	4,560	4,469
81	243,00	210,4442	246,00	239,48	237,18	238,08	4,651	4,615	4,560	4,468
82	246,00	213,0422	249,00	242,48	240,18	241,08	4,651	4,614	4,559	4,468
83	249,00	215,6403	252,00	245,48	243,18	244,08	4,651	4,614	4,559	4,467
84	252,00	218,2384	255,00	248,48	246,18	247,08	4,651	4,614	4,559	4,467
85	255,00	220,8365	258,00	251,48	249,17	250,07	4,651	4,614	4,558	4,466
86	258,00	223,4346	261,00	254,48	252,17	253,07	4,650	4,613	4,558	4,466
87	261,00	226,0326	264,00	257,48	255,17	256,07	4,650	4,613	4,558	4,465
88	264,00	228,6307	267,00	260,47	258,17	259,07	4,650	4,613	4,557	4,465
89	267,00	231,2288	270,00	263,47	261,17	262,07	4,650	4,613	4,557	4,464
90	270,00	233,8269	273,00	266,47	264,17	265,07	4,650	4,613	4,557	4,463
91	273,00	236,4249	276,00	269,47	267,17	268,07	4,650	4,612	4,556	4,463
92	276,00	239,0230	279,00	272,47	270,17	271,07	4,650	4,612	4,556	4,462
93	279,00	241,6211	282,00	275,47	273,17	274,07	4,649	4,612	4,556	4,462
94	282,00	244,2192	285,00	278,47	276,17	277,07	4,649	4,612	4,555	4,461
95	285,00	246,8172	288,00	281,47	279,16	280,06	4,649	4,611	4,555	4,461
96	288,00	249,4153	291,00	284,47	282,16	283,06	4,649	4,611	4,555	4,460
97	291,00	252,0134	294,00	287,47	285,16	286,06	4,649	4,611	4,554	4,460
98	294,00	254,6115	297,00	290,47	288,16	289,06	4,649	4,611	4,554	4,459
99	297,00	257,2095	300,00	293,47	291,16	292,06	4,649	4,611	4,554	4,459
100	300,00	259,8076	303,00	296,47	294,16	295,06	4,649	4,610	4,553	4,458

Table 35 — Inspection dimensions internal spline, $\alpha = 30°$, $m = 3$, flat or fillet root, $E_{v\,min} = 4{,}712$

z	D_{Ri}	Measurement over balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—	—
8	5,00	16,818	16,894	16,839	16,965	16,871	17,068	16,919	17,232	2,440
9	5,00	19,517	19,584	19,536	19,648	19,564	19,742	19,608	19,893	2,245
10	5,30	21,720	21,805	21,745	21,885	21,781	22,000	21,837	22,184	2,655
11	5,30	24,523	24,596	24,545	24,667	24,577	24,771	24,626	24,939	2,426
12	5,30	27,901	27,969	27,922	28,037	27,952	28,136	27,999	28,297	2,324
13	5,30	30,688	30,752	30,708	30,817	30,737	30,912	30,782	31,067	2,220
14	5,30	33,991	34,054	34,011	34,117	34,040	34,210	34,084	34,363	2,172
15	5,30	36,791	36,851	36,810	36,912	36,838	37,003	36,882	37,153	2,111
16	5,30	40,048	40,107	40,067	40,168	40,095	40,258	40,138	40,407	2,083
17	5,30	42,862	42,920	42,882	42,980	42,909	43,069	42,952	43,216	2,042
18	5,30	46,087	46,144	46,106	46,203	46,134	46,292	46,177	46,438	2,024
19	5,30	48,916	48,972	48,936	49,031	48,963	49,119	49,006	49,265	1,995
20	5,30	52,116	52,171	52,135	52,230	52,163	52,318	52,206	52,463	1,983
21	5,30	54,958	55,013	54,978	55,072	55,006	55,159	55,049	55,304	1,960
22	5,30	58,138	58,192	58,158	58,251	58,185	58,338	58,229	58,483	1,951
23	5,30	60,992	61,046	61,012	61,105	61,040	61,192	61,084	61,336	1,934
24	5,30	64,156	64,209	64,176	64,268	64,204	64,355	64,248	64,500	1,927
25	5,30	67,021	67,073	67,040	67,132	67,069	67,219	67,113	67,363	1,913
26	5,30	70,171	70,223	70,191	70,282	70,219	70,369	70,263	70,514	1,908
27	5,30	73,044	73,096	73,064	73,155	73,093	73,242	73,137	73,386	1,896
28	5,30	76,183	76,235	76,203	76,293	76,232	76,381	76,277	76,526	1,892
29	5,30	79,064	79,116	79,085	79,174	79,114	79,262	79,159	79,407	1,882
30	5,30	82,193	82,245	82,214	82,303	82,243	82,391	82,288	82,536	1,878
31	5,30	85,082	85,133	85,103	85,192	85,132	85,279	85,178	85,425	1,870
32	5,30	88,203	88,253	88,223	88,312	88,253	88,400	88,299	88,546	1,867
33	5,30	91,097	91,148	91,118	91,207	91,148	91,295	91,194	91,441	1,860
34	5,60	93,251	93,302	93,272	93,363	93,303	93,453	93,351	93,603	1,903
35	5,60	96,154	96,205	96,176	96,266	96,207	96,356	96,254	96,506	1,895
36	5,60	99,262	99,313	99,284	99,374	99,315	99,464	99,363	99,615	1,891
37	5,60	102,170	102,221	102,192	102,281	102,223	102,372	102,271	102,522	1,884
38	5,60	105,272	105,323	105,294	105,383	105,326	105,474	105,374	105,625	1,880
39	5,60	108,184	108,235	108,206	108,295	108,238	108,386	108,287	108,537	1,874
40	5,60	111,281	111,331	111,303	111,392	111,335	111,483	111,384	111,634	1,871
41	5,60	114,197	114,247	114,219	114,308	114,251	114,399	114,301	114,550	1,866
42	5,60	117,289	117,339	117,311	117,400	117,344	117,491	117,393	117,643	1,863
43	5,60	120,208	120,258	120,231	120,319	120,264	120,411	120,314	120,563	1,858
44	5,60	123,296	123,345	123,319	123,407	123,352	123,498	123,402	123,651	1,856
45	5,60	126,219	126,268	126,242	126,330	126,275	126,421	126,325	126,574	1,851
46	5,60	129,302	129,352	129,326	129,413	129,359	129,505	129,410	129,658	1,849
47	5,60	132,228	132,277	132,252	132,339	132,285	132,431	132,336	132,584	1,845
48	5,60	135,308	135,357	135,332	135,419	135,365	135,511	135,417	135,665	1,844
49	5,60	138,237	138,286	138,261	138,348	138,295	138,440	138,346	138,594	1,840
50	5,60	141,314	141,362	141,338	141,424	141,372	141,517	141,423	141,671	1,838
51	5,60	144,245	144,294	144,269	144,356	144,303	144,449	144,356	144,603	1,835
52	5,60	147,319	147,367	147,343	147,429	147,377	147,523	147,430	147,677	1,833
53	5,60	150,253	150,301	150,277	150,363	150,312	150,457	150,364	150,611	1,830
54	5,60	153,324	153,372	153,348	153,434	153,383	153,528	153,436	153,683	1,829
55	5,60	156,260	156,308	156,285	156,370	156,319	156,464	156,372	156,619	1,826
56	5,60	159,328	159,376	159,353	159,439	159,388	159,532	159,441	159,688	1,825
57	5,60	162,267	162,314	162,291	162,377	162,326	162,471	162,380	162,627	1,822
58	5,60	165,332	165,380	165,357	165,443	165,393	165,537	165,447	165,693	1,821
59	5,60	168,273	168,320	168,298	168,383	168,333	168,477	168,387	168,634	1,819
60	5,60	171,336	171,383	171,361	171,446	171,397	171,541	171,452	171,698	1,818
61	5,60	174,278	174,325	174,304	174,389	174,340	174,483	174,394	174,641	1,816
62	5,60	177,340	177,387	177,365	177,450	177,401	177,545	177,456	177,703	1,815
63	5,60	180,284	180,331	180,309	180,394	180,346	180,489	180,401	180,647	1,813
64	5,60	183,343	183,390	183,369	183,454	183,405	183,549	183,461	183,707	1,812
65	5,60	186,289	186,335	186,315	186,399	186,351	186,495	186,407	186,653	1,810
66	5,60	189,346	189,393	189,372	189,457	189,409	189,552	189,465	189,712	1,809
67	5,60	192,294	192,340	192,320	192,404	192,357	192,500	192,413	192,659	1,807
68	5,60	195,349	195,396	195,376	195,460	195,413	195,556	195,470	195,716	1,806
69	5,60	198,298	198,344	198,325	198,408	198,362	198,505	198,419	198,665	1,805
70	5,60	201,352	201,398	201,379	201,463	201,416	201,559	201,474	201,720	1,804
71	5,60	204,302	204,348	204,329	204,413	204,367	204,509	204,424	204,670	1,802
72	5,60	207,355	207,401	207,382	207,466	207,420	207,562	207,478	207,723	1,802
73	5,60	210,306	210,352	210,333	210,417	210,371	210,514	210,430	210,675	1,800
74	5,60	213,358	213,403	213,385	213,468	213,423	213,565	213,481	213,727	1,800
75	5,60	216,310	216,356	216,338	216,421	216,376	216,518	216,435	216,680	1,798
76	5,60	219,360	219,406	219,388	219,471	219,426	219,568	219,485	219,731	1,798
77	5,60	222,314	222,359	222,342	222,425	222,380	222,522	222,439	222,685	1,796
78	5,60	225,363	225,408	225,390	225,473	225,429	225,571	225,489	225,734	1,796
79	5,60	228,318	228,363	228,345	228,428	228,384	228,526	228,444	228,690	1,794
80	5,60	231,365	231,410	231,393	231,476	231,432	231,574	231,492	231,738	1,794
81	5,60	234,321	234,366	234,349	234,432	234,388	234,530	234,448	234,694	1,793
82	5,60	237,367	237,412	237,395	237,478	237,435	237,577	237,495	237,741	1,792
83	5,60	240,324	240,369	240,352	240,435	240,392	240,534	240,453	240,698	1,791
84	5,60	243,369	243,414	243,398	243,480	243,438	243,579	243,498	243,744	1,791
85	5,60	246,327	246,372	246,356	246,438	246,396	246,537	246,457	246,702	1,789
86	5,60	249,371	249,416	249,400	249,482	249,440	249,582	249,502	249,747	1,789
87	5,60	252,330	252,375	252,359	252,441	252,399	252,541	252,461	252,706	1,788
88	5,60	255,373	255,418	255,402	255,484	255,443	255,584	255,505	255,750	1,788
89	5,60	258,333	258,377	258,362	258,444	258,403	258,544	258,465	258,710	1,787
90	5,60	261,375	261,419	261,404	261,486	261,445	261,586	261,508	261,753	1,786
91	5,60	264,336	264,380	264,365	264,447	264,406	264,547	264,469	264,714	1,785
92	5,60	267,377	267,421	267,406	267,488	267,448	267,589	267,511	267,756	1,785
93	5,60	270,339	270,382	270,368	270,450	270,409	270,550	270,473	270,718	1,784
94	5,60	273,379	273,423	273,408	273,490	273,450	273,591	273,513	273,759	1,784
95	5,60	276,341	276,385	276,371	276,452	276,413	276,553	276,476	276,721	1,783
96	5,60	279,380	279,424	279,410	279,492	279,452	279,593	279,516	279,761	1,782
97	5,60	282,344	282,387	282,373	282,455	282,416	282,556	282,480	282,725	1,782
98	5,60	285,382	285,426	285,412	285,493	285,454	285,595	285,519	285,764	1,781
99	5,60	288,346	288,389	288,376	288,457	288,419	288,559	288,483	288,728	1,781
100	5,60	291,384	291,427	291,414	291,495	291,457	291,597	291,521	291,767	1,780

Table 36 — Inspection dimensions external spline, $\alpha = 30°$, $m = 3$, flat or fillet root, $S_{v\,max} = 4{,}712$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	6,70	28,851	28,884	28,820	28,875	28,773	28,862	28,696	28,841	1,228
7	6,70	31,296	31,329	31,265	31,320	31,218	31,307	31,139	31,286	1,227
8	6,30	33,997	34,033	33,963	34,023	33,912	34,008	33,825	33,985	1,321
9	6,30	36,576	36,611	36,541	36,601	36,489	36,586	36,401	36,563	1,324
10	6,30	40,082	40,119	40,046	40,108	39,991	40,092	39,900	40,067	1,366
11	6,00	41,965	42,003	41,928	41,992	41,871	41,975	41,777	41,949	1,400
12	6,00	45,359	45,398	45,321	45,386	45,262	45,369	45,165	45,342	1,431
13	6,00	48,072	48,111	48,032	48,099	47,973	48,081	47,874	48,054	1,435
14	6,00	51,400	51,439	51,359	51,427	51,299	51,409	51,197	51,380	1,459
15	6,00	54,152	54,191	54,111	54,179	54,050	54,160	53,947	54,131	1,463
16	6,00	57,432	57,473	57,391	57,459	57,328	57,440	57,223	57,411	1,482
17	6,00	60,214	60,254	60,172	60,241	60,109	60,222	60,003	60,191	1,486
18	6,00	63,459	63,500	63,416	63,486	63,352	63,466	63,244	63,435	1,502
19	6,00	66,264	66,305	66,221	66,291	66,156	66,271	66,047	66,239	1,505
20	6,00	69,481	69,522	69,437	69,508	69,371	69,487	69,261	69,455	1,518
21	6,00	72,305	72,346	72,261	72,332	72,194	72,311	72,083	72,278	1,522
22	6,00	75,500	75,542	75,455	75,527	75,388	75,505	75,275	75,472	1,533
23	6,00	78,339	78,381	78,294	78,366	78,226	78,344	78,112	78,310	1,536
24	6,00	81,516	81,558	81,470	81,543	81,401	81,521	81,286	81,486	1,545
25	6,00	84,369	84,410	84,322	84,395	84,253	84,372	84,137	84,338	1,548
26	6,00	87,530	87,572	87,484	87,556	87,413	87,534	87,296	87,498	1,556
27	6,00	90,394	90,436	90,347	90,419	90,276	90,396	90,158	90,361	1,559
28	6,00	93,543	93,585	93,495	93,568	93,424	93,545	93,304	93,508	1,566
29	6,00	96,415	96,457	96,367	96,441	96,296	96,417	96,175	96,380	1,569
30	6,00	99,553	99,596	99,505	99,579	99,432	99,555	99,311	99,517	1,575
31	6,00	102,434	102,477	102,386	102,460	102,313	102,435	102,191	102,397	1,577
32	6,00	105,563	105,605	105,514	105,588	105,440	105,563	105,317	105,525	1,583
33	5,60	107,317	107,360	107,267	107,342	107,191	107,317	107,065	107,278	1,613
34	5,60	110,435	110,478	110,384	110,460	110,308	110,434	110,181	110,395	1,618
35	5,60	113,329	113,372	113,278	113,354	113,202	113,328	113,074	113,288	1,619
36	5,60	116,440	116,483	116,389	116,464	116,312	116,438	116,183	116,398	1,623
37	5,60	119,339	119,383	119,288	119,364	119,211	119,337	119,081	119,296	1,624
38	5,60	122,444	122,487	122,392	122,468	122,314	122,442	122,184	122,400	1,628
39	5,60	125,349	125,392	125,297	125,373	125,219	125,346	125,088	125,304	1,629
40	5,60	128,448	128,491	128,396	128,472	128,317	128,444	128,185	128,402	1,633
41	5,60	131,357	131,400	131,305	131,381	131,226	131,353	131,094	131,311	1,634
42	5,60	134,451	134,495	134,398	134,475	134,319	134,447	134,186	134,404	1,637
43	5,60	137,365	137,408	137,312	137,388	137,232	137,360	137,098	137,317	1,638
44	5,60	140,455	140,498	140,401	140,478	140,321	140,449	140,186	140,405	1,641
45	5,60	143,372	143,415	143,318	143,395	143,238	143,366	143,103	143,322	1,642
46	5,60	146,457	146,500	146,403	146,480	146,322	146,451	146,187	146,406	1,644
47	5,60	149,378	149,421	149,324	149,401	149,243	149,372	149,107	149,327	1,645
48	5,60	152,460	152,503	152,405	152,482	152,324	152,453	152,187	152,407	1,648
49	5,60	155,384	155,427	155,329	155,406	155,247	155,377	155,110	155,331	1,648
50	5,60	158,462	158,505	158,407	158,484	158,325	158,454	158,187	158,408	1,651
51	5,60	161,390	161,432	161,334	161,411	161,251	161,381	161,113	161,335	1,651
52	5,60	164,465	164,507	164,409	164,486	164,326	164,456	164,187	164,409	1,654
53	5,60	167,394	167,437	167,339	167,416	167,255	167,385	167,115	167,338	1,654
54	5,60	170,466	170,509	170,411	170,488	170,327	170,457	170,186	170,409	1,656
55	5,60	173,399	173,442	173,343	173,420	173,259	173,389	173,118	173,341	1,657
56	5,60	176,468	176,511	176,412	176,489	176,327	176,458	176,186	176,409	1,659
57	5,60	179,403	179,446	179,347	179,424	179,262	179,392	179,120	179,344	1,659
58	5,60	182,470	182,513	182,413	182,490	182,328	182,458	182,185	182,410	1,661
59	5,60	185,407	185,450	185,350	185,427	185,264	185,395	185,122	185,346	1,662
60	5,60	188,472	188,514	188,414	188,491	188,328	188,459	188,185	188,410	1,663
61	5,60	191,411	191,453	191,353	191,430	191,267	191,398	191,123	191,348	1,664
62	5,60	194,473	194,516	194,415	194,492	194,329	194,460	194,184	194,410	1,665
63	5,60	197,414	197,457	197,356	197,433	197,269	197,400	197,124	197,350	1,666
64	5,60	200,474	200,517	200,416	200,493	200,329	200,460	200,184	200,409	1,667
65	5,60	203,417	203,460	203,359	203,436	203,271	203,403	203,126	203,352	1,668
66	5,60	206,476	206,518	206,417	206,494	206,329	206,461	206,183	206,409	1,669
67	5,60	209,420	209,462	209,361	209,439	209,273	209,405	209,126	209,353	1,670
68	5,60	212,477	212,519	212,418	212,495	212,330	212,461	212,182	212,409	1,671
69	5,60	215,423	215,465	215,364	215,441	215,275	215,407	215,127	215,354	1,671
70	5,60	218,478	218,520	218,419	218,496	218,330	218,461	218,181	218,408	1,673
71	5,60	221,425	221,468	221,366	221,443	221,277	221,408	221,128	221,355	1,673
72	5,60	224,479	224,521	224,419	224,496	224,330	224,461	224,180	224,408	1,674
73	5,60	227,428	227,470	227,368	227,445	227,278	227,410	227,129	227,356	1,674
74	5,60	230,480	230,522	230,420	230,497	230,330	230,461	230,179	230,408	1,676
75	5,60	233,430	233,472	233,370	233,447	233,280	233,411	233,129	233,357	1,676
76	5,60	236,480	236,522	236,420	236,497	236,330	236,461	236,178	236,407	1,677
77	5,60	239,432	239,474	239,372	239,449	239,281	239,413	239,129	239,358	1,677
78	5,60	242,481	242,523	242,421	242,498	242,330	242,461	242,178	242,406	1,678
79	5,60	245,434	245,476	245,373	245,450	245,282	245,414	245,130	245,359	1,679
80	5,60	248,482	248,524	248,421	248,498	248,329	248,461	248,177	248,406	1,680
81	5,60	251,436	251,478	251,375	251,452	251,283	251,415	251,130	251,359	1,680
82	5,60	254,483	254,524	254,421	254,498	254,329	254,461	254,176	254,405	1,681
83	5,60	257,438	257,480	257,376	257,453	257,284	257,416	257,130	257,360	1,681
84	5,60	260,483	260,525	260,422	260,498	260,329	260,461	260,174	260,404	1,682
85	5,60	263,440	263,481	263,378	263,455	263,285	263,417	263,130	263,360	1,682
86	5,60	266,484	266,525	266,422	266,499	266,329	266,461	266,173	266,404	1,683
87	5,60	269,441	269,483	269,379	269,456	269,286	269,418	269,130	269,360	1,683
88	5,60	272,484	272,526	272,422	272,499	272,329	272,461	272,172	272,403	1,684
89	5,60	275,443	275,484	275,380	275,457	275,286	275,419	275,130	275,361	1,684
90	5,60	278,485	278,526	278,422	278,499	278,328	278,461	278,171	278,402	1,685
91	5,60	281,444	281,485	281,381	281,458	281,287	281,419	281,130	281,361	1,685
92	5,60	284,485	284,527	284,422	284,499	284,328	284,460	284,170	284,401	1,686
93	5,60	287,445	287,487	287,382	287,459	287,288	287,420	287,129	287,361	1,686
94	5,60	290,486	290,527	290,423	290,499	290,328	290,460	290,169	290,400	1,687
95	5,60	293,447	293,488	293,383	293,460	293,288	293,421	293,129	293,361	1,687
96	5,60	296,486	296,527	296,423	296,499	296,327	296,460	296,168	296,400	1,688
97	5,60	299,448	299,489	299,384	299,461	299,289	299,421	299,129	299,361	1,688
98	5,60	302,487	302,528	302,423	302,499	302,327	302,459	302,167	302,399	1,689
99	5,60	305,449	305,490	305,385	305,462	305,289	305,421	305,129	305,361	1,689
100	5,60	308,487	308,528	308,423	308,499	308,326	308,459	308,166	308,398	1,690

5.10 30° pressure angle, module 4

Table 37 — Geometry internal spline, $\alpha = 30°$, $m = 4$, flat and fillet root, $E_{v\,min} = 6{,}283$

z	D	D_b	$D_{ei\,max}$ Fillet root	$D_{ei\,max}$ Flat	$D_{ii\,min}$	$D_{ii\,min}$	E_{max}			
							4H	5H	6H	7H
6	24,00	20,7846	31,52	30,32	28,80	21,72	6,330	6,358	6,400	6,470
7	28,00	24,2487	35,53	34,33	32,80	25,44	6,330	6,359	6,402	6,473
8	32,00	27,7128	39,53	38,33	36,80	29,24	6,331	6,360	6,403	6,475
9	36,00	31,1769	43,54	42,34	40,80	33,09	6,332	6,361	6,405	6,478
10	40,00	34,6410	47,54	46,34	44,80	36,97	6,332	6,362	6,406	6,480
11	44,00	38,1051	51,54	50,34	48,80	40,87	6,333	6,363	6,407	6,482
12	48,00	41,5692	55,55	54,35	52,80	44,79	6,333	6,363	6,409	6,484
13	52,00	45,0333	59,55	58,35	56,80	48,73	6,334	6,364	6,410	6,486
14	56,00	48,4974	63,56	62,36	60,80	52,67	6,334	6,365	6,411	6,488
15	60,00	51,9615	67,56	66,36	64,80	56,62	6,335	6,366	6,412	6,490
16	64,00	55,4256	71,56	70,36	68,80	60,58	6,335	6,366	6,413	6,491
17	68,00	58,8897	75,56	74,36	72,80	64,54	6,336	6,367	6,414	6,493
18	72,00	62,3538	79,57	78,37	76,80	68,51	6,336	6,368	6,415	6,495
19	76,00	65,8179	83,57	82,37	80,80	72,48	6,336	6,368	6,416	6,496
20	80,00	69,2820	87,57	86,37	84,80	76,46	6,337	6,369	6,417	6,498
21	84,00	72,7461	91,57	90,37	88,80	80,44	6,337	6,369	6,418	6,499
22	88,00	76,2102	95,58	94,38	92,80	84,41	6,337	6,370	6,419	6,500
23	92,00	79,6743	99,58	98,38	96,80	88,40	6,338	6,371	6,420	6,502
24	96,00	83,1384	103,58	102,38	100,80	92,38	6,338	6,371	6,421	6,503
25	100,00	86,6025	107,58	106,38	104,80	96,36	6,338	6,372	6,421	6,504
26	104,00	90,0666	111,59	110,39	108,80	100,35	6,339	6,372	6,422	6,506
27	108,00	93,5307	115,59	114,39	112,80	104,33	6,339	6,373	6,423	6,507
28	112,00	96,9948	119,59	118,39	116,80	108,32	6,339	6,373	6,424	6,508
29	116,00	100,4589	123,59	122,39	120,80	112,31	6,340	6,374	6,424	6,509
30	120,00	103,9230	127,59	126,39	124,80	116,30	6,340	6,374	6,425	6,510
31	124,00	107,3872	131,60	130,40	128,80	120,29	6,340	6,374	6,426	6,512
32	128,00	110,8513	135,60	134,40	132,80	124,28	6,340	6,375	6,427	6,513
33	132,00	114,3154	139,60	138,40	136,80	128,27	6,341	6,375	6,427	6,514
34	136,00	117,7795	143,60	142,40	140,80	132,26	6,341	6,376	6,428	6,515
35	140,00	121,2436	147,60	146,40	144,80	136,26	6,341	6,376	6,429	6,516
36	144,00	124,7077	151,61	150,41	148,80	140,25	6,341	6,377	6,429	6,517
37	148,00	128,1718	155,61	154,41	152,80	144,24	6,342	6,377	6,430	6,518
38	152,00	131,6359	159,61	158,41	156,80	148,23	6,342	6,377	6,431	6,519
39	156,00	135,1000	163,61	162,41	160,80	152,23	6,342	6,378	6,431	6,520
40	160,00	138,5641	167,61	166,41	164,80	156,22	6,342	6,378	6,432	6,521
41	164,00	142,0282	171,61	170,41	168,80	160,22	6,343	6,379	6,432	6,522
42	168,00	145,4923	175,62	174,42	172,80	164,21	6,343	6,379	6,433	6,523
43	172,00	148,9564	179,62	178,42	176,80	168,21	6,343	6,379	6,434	6,524
44	176,00	152,4205	183,62	182,42	180,80	172,20	6,343	6,380	6,434	6,525
45	180,00	155,8846	187,62	186,42	184,80	176,20	6,344	6,380	6,435	6,526
46	184,00	159,3487	191,62	190,42	188,80	180,19	6,344	6,380	6,435	6,527
47	188,00	162,8128	195,62	194,42	192,80	184,19	6,344	6,381	6,436	6,527
48	192,00	166,2769	199,63	198,43	196,80	188,18	6,344	6,381	6,436	6,528
49	196,00	169,7410	203,63	202,43	200,80	192,18	6,345	6,382	6,437	6,529
50	200,00	173,2051	207,63	206,43	204,80	196,18	6,345	6,382	6,437	6,530
51	204,00	176,6692	211,63	210,43	208,80	200,17	6,345	6,382	6,438	6,531
52	208,00	180,1333	215,63	214,43	212,80	204,17	6,345	6,383	6,439	6,532
53	212,00	183,5974	219,63	218,43	216,80	208,17	6,345	6,383	6,439	6,533
54	216,00	187,0615	223,63	222,43	220,80	212,16	6,346	6,383	6,440	6,534
55	220,00	190,5256	227,64	226,44	224,80	216,16	6,346	6,384	6,440	6,534
56	224,00	193,9897	231,64	230,44	228,80	220,16	6,346	6,384	6,441	6,535
57	228,00	197,4538	235,64	234,44	232,80	224,15	6,346	6,384	6,441	6,536
58	232,00	200,9179	239,64	238,44	236,80	228,15	6,346	6,384	6,442	6,537
59	236,00	204,3820	243,64	242,44	240,80	232,15	6,347	6,385	6,442	6,538
60	240,00	207,8461	247,64	246,44	244,80	236,15	6,347	6,385	6,443	6,538
61	244,00	211,3102	251,64	250,44	248,80	240,14	6,347	6,385	6,443	6,539
62	248,00	214,7743	255,64	254,44	252,80	244,14	6,347	6,386	6,444	6,540
63	252,00	218,2384	259,65	258,45	256,80	248,14	6,347	6,386	6,444	6,541
64	256,00	221,7025	263,65	262,45	260,80	252,14	6,348	6,386	6,444	6,541
65	260,00	225,1666	267,65	266,45	264,80	256,14	6,348	6,387	6,445	6,542
66	264,00	228,6307	271,65	270,45	268,80	260,13	6,348	6,387	6,445	6,543
67	268,00	232,0948	275,65	274,45	272,80	264,13	6,348	6,387	6,446	6,544
68	272,00	235,5589	279,65	278,45	276,80	268,13	6,348	6,388	6,446	6,544
69	276,00	239,0230	283,65	282,45	280,80	272,13	6,349	6,388	6,447	6,545
70	280,00	242,4871	287,66	286,46	284,80	276,13	6,349	6,388	6,447	6,546
71	284,00	245,9512	291,66	290,46	288,80	280,12	6,349	6,388	6,448	6,547
72	288,00	249,4153	295,66	294,46	292,80	284,12	6,349	6,389	6,448	6,547
73	292,00	252,8794	299,66	298,46	296,80	288,12	6,349	6,389	6,449	6,548
74	296,00	256,3435	303,66	302,46	300,80	292,12	6,349	6,389	6,449	6,549
75	300,00	259,8076	307,66	306,46	304,80	296,12	6,350	6,390	6,449	6,549
76	304,00	263,2717	311,66	310,46	308,80	300,12	6,350	6,390	6,450	6,550
77	308,00	266,7358	315,66	314,46	312,80	304,11	6,350	6,390	6,450	6,551
78	312,00	270,1999	319,66	318,46	316,80	308,11	6,350	6,390	6,451	6,551
79	316,00	273,6640	323,67	322,47	320,80	312,11	6,350	6,391	6,451	6,552
80	320,00	277,1281	327,67	326,47	324,80	316,11	6,350	6,391	6,452	6,553
81	324,00	280,5922	331,67	330,47	328,80	320,11	6,351	6,391	6,452	6,553
82	328,00	284,0563	335,67	334,47	332,80	324,11	6,351	6,391	6,452	6,554
83	332,00	287,5204	339,67	338,47	336,80	328,11	6,351	6,392	6,453	6,555
84	336,00	290,9845	343,67	342,47	340,80	332,10	6,351	6,392	6,453	6,555
85	340,00	294,4486	347,67	346,47	344,80	336,10	6,351	6,392	6,454	6,556
86	344,00	297,9127	351,67	350,47	348,80	340,10	6,351	6,392	6,454	6,557
87	348,00	301,3768	355,68	354,48	352,80	344,10	6,352	6,393	6,454	6,557
88	352,00	304,8409	359,68	358,48	356,80	348,10	6,352	6,393	6,455	6,558
89	356,00	308,3050	363,68	362,48	360,80	352,10	6,352	6,393	6,455	6,559
90	360,00	311,7691	367,68	366,48	364,80	356,10	6,352	6,394	6,456	6,559
91	364,00	315,2332	371,68	370,48	368,80	360,10	6,352	6,394	6,456	6,560
92	368,00	318,6973	375,68	374,48	372,80	364,10	6,352	6,394	6,456	6,561
93	372,00	322,1615	379,68	378,48	376,80	368,09	6,353	6,394	6,457	6,561
94	376,00	325,6256	383,68	382,48	380,80	372,09	6,353	6,395	6,457	6,562
95	380,00	329,0897	387,68	386,48	384,80	376,09	6,353	6,395	6,458	6,562
96	384,00	332,5538	391,69	390,49	388,80	380,09	6,353	6,395	6,458	6,563
97	388,00	336,0179	395,69	394,49	392,80	384,09	6,353	6,395	6,458	6,564
98	392,00	339,4820	399,69	398,49	396,80	388,09	6,353	6,396	6,459	6,564
99	396,00	342,9461	403,69	402,49	400,80	392,09	6,353	6,396	6,459	6,565
100	400,00	346,4102	407,69	406,49	404,80	396,09	6,354	6,396	6,460	6,565

Table 38 — Geometry external spline, $\alpha = 30°$, $m = 4$, flat and fillet root, $S_{v\,max} = 6{,}283$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$ Fillet root	$D_{ie\,min}$ Flat	S_{min}			
							4h	5h	6h	7h
6	24,00	20,7846	28,00	20,92	16,48	17,68	6,236	6,208	6,166	6,096
7	28,00	24,2487	32,00	24,64	20,47	21,67	6,236	6,207	6,164	6,093
8	32,00	27,7128	36,00	28,44	24,47	25,67	6,235	6,206	6,163	6,091
9	36,00	31,1769	40,00	32,29	28,46	29,66	6,234	6,205	6,161	6,088
10	40,00	34,6410	44,00	36,17	32,46	33,66	6,234	6,204	6,160	6,086
11	44,00	38,1051	48,00	40,07	36,46	37,66	6,233	6,203	6,159	6,084
12	48,00	41,5692	52,00	43,99	40,45	41,65	6,233	6,203	6,157	6,082
13	52,00	45,0333	56,00	47,93	44,45	45,65	6,232	6,202	6,156	6,080
14	56,00	48,4974	60,00	51,87	48,44	49,64	6,232	6,201	6,155	6,078
15	60,00	51,9615	64,00	55,82	52,44	53,64	6,231	6,200	6,154	6,076
16	64,00	55,4256	68,00	59,78	56,44	57,64	6,231	6,200	6,153	6,075
17	68,00	58,8897	72,00	63,74	60,44	61,64	6,230	6,199	6,152	6,073
18	72,00	62,3538	76,00	67,71	64,43	65,63	6,230	6,198	6,151	6,071
19	76,00	65,8179	80,00	71,68	68,43	69,63	6,230	6,198	6,150	6,070
20	80,00	69,2820	84,00	75,66	72,43	73,63	6,229	6,197	6,149	6,068
21	84,00	72,7461	88,00	79,64	76,43	77,63	6,229	6,197	6,148	6,067
22	88,00	76,2102	92,00	83,61	80,42	81,62	6,229	6,196	6,147	6,066
23	92,00	79,6743	96,00	87,60	84,42	85,62	6,228	6,195	6,146	6,064
24	96,00	83,1384	100,00	91,58	88,42	89,62	6,228	6,195	6,145	6,063
25	100,00	86,6025	104,00	95,56	92,42	93,62	6,228	6,194	6,145	6,062
26	104,00	90,0666	108,00	99,55	96,41	97,61	6,227	6,194	6,144	6,060
27	108,00	93,5307	112,00	103,53	100,41	101,61	6,227	6,193	6,143	6,059
28	112,00	96,9948	116,00	107,52	104,41	105,61	6,227	6,193	6,142	6,058
29	116,00	100,4589	120,00	111,51	108,41	109,61	6,226	6,192	6,142	6,057
30	120,00	103,9230	124,00	115,50	112,41	113,61	6,226	6,192	6,141	6,056
31	124,00	107,3872	128,00	119,49	116,40	117,60	6,226	6,192	6,140	6,054
32	128,00	110,8513	132,00	123,48	120,40	121,60	6,226	6,191	6,139	6,053
33	132,00	114,3154	136,00	127,47	124,40	125,60	6,225	6,191	6,139	6,052
34	136,00	117,7795	140,00	131,46	128,40	129,60	6,225	6,190	6,138	6,051
35	140,00	121,2436	144,00	135,46	132,40	133,60	6,225	6,190	6,137	6,050
36	144,00	124,7077	148,00	139,45	136,39	137,59	6,225	6,189	6,137	6,049
37	148,00	128,1718	152,00	143,44	140,39	141,59	6,224	6,189	6,136	6,048
38	152,00	131,6359	156,00	147,43	144,39	145,59	6,224	6,189	6,135	6,047
39	156,00	135,1000	160,00	151,43	148,39	149,59	6,224	6,188	6,135	6,046
40	160,00	138,5641	164,00	155,42	152,39	153,59	6,224	6,188	6,134	6,045
41	164,00	142,0282	168,00	159,42	156,39	157,59	6,223	6,187	6,134	6,044
42	168,00	145,4923	172,00	163,41	160,38	161,58	6,223	6,187	6,133	6,043
43	172,00	148,9564	176,00	167,41	164,38	165,58	6,223	6,187	6,132	6,042
44	176,00	152,4205	180,00	171,40	168,38	169,58	6,223	6,186	6,132	6,041
45	180,00	155,8846	184,00	175,40	172,38	173,58	6,222	6,186	6,131	6,040
46	184,00	159,3487	188,00	179,39	176,38	177,58	6,222	6,186	6,131	6,039
47	188,00	162,8128	192,00	183,39	180,38	181,58	6,222	6,185	6,130	6,039
48	192,00	166,2769	196,00	187,38	184,37	185,57	6,222	6,185	6,130	6,038
49	196,00	169,7410	200,00	191,38	188,37	189,57	6,221	6,184	6,129	6,037
50	200,00	173,2051	204,00	195,38	192,37	193,57	6,221	6,184	6,129	6,036
51	204,00	176,6692	208,00	199,37	196,37	197,57	6,221	6,184	6,128	6,035
52	208,00	180,1333	212,00	203,37	200,37	201,57	6,221	6,183	6,127	6,034
53	212,00	183,5974	216,00	207,37	204,37	205,57	6,221	6,183	6,127	6,033
54	216,00	187,0615	220,00	211,36	208,37	209,57	6,220	6,183	6,126	6,032
55	220,00	190,5256	224,00	215,36	212,36	213,56	6,220	6,182	6,126	6,032
56	224,00	193,9897	228,00	219,36	216,36	217,56	6,220	6,182	6,125	6,031
57	228,00	197,4538	232,00	223,35	220,36	221,56	6,220	6,182	6,125	6,030
58	232,00	200,9179	236,00	227,35	224,36	225,56	6,220	6,182	6,124	6,029
59	236,00	204,3820	240,00	231,35	228,36	229,56	6,219	6,181	6,124	6,028
60	240,00	207,8461	244,00	235,35	232,36	233,56	6,219	6,181	6,123	6,028
61	244,00	211,3102	248,00	239,34	236,36	237,56	6,219	6,181	6,123	6,027
62	248,00	214,7743	252,00	243,34	240,36	241,56	6,219	6,180	6,122	6,026
63	252,00	218,2384	256,00	247,34	244,35	245,55	6,219	6,180	6,122	6,025
64	256,00	221,7025	260,00	251,34	248,35	249,55	6,218	6,180	6,122	6,025
65	260,00	225,1666	264,00	255,34	252,35	253,55	6,218	6,179	6,121	6,024
66	264,00	228,6307	268,00	259,33	256,35	257,55	6,218	6,179	6,121	6,023
67	268,00	232,0948	272,00	263,33	260,35	261,55	6,218	6,179	6,120	6,022
68	272,00	235,5589	276,00	267,33	264,35	265,55	6,218	6,178	6,120	6,022
69	276,00	239,0230	280,00	271,33	268,35	269,55	6,217	6,178	6,119	6,021
70	280,00	242,4871	284,00	275,33	272,34	273,54	6,217	6,178	6,119	6,020
71	284,00	245,9512	288,00	279,32	276,34	277,54	6,217	6,178	6,118	6,019
72	288,00	249,4153	292,00	283,32	280,34	281,54	6,217	6,177	6,118	6,019
73	292,00	252,8794	296,00	287,32	284,34	285,54	6,217	6,177	6,117	6,018
74	296,00	256,3435	300,00	291,32	288,34	289,54	6,217	6,177	6,117	6,017
75	300,00	259,8076	304,00	295,32	292,34	293,54	6,216	6,176	6,117	6,017
76	304,00	263,2717	308,00	299,32	296,34	297,54	6,216	6,176	6,116	6,016
77	308,00	266,7358	312,00	303,31	300,34	301,54	6,216	6,176	6,116	6,015
78	312,00	270,1999	316,00	307,31	304,34	305,54	6,216	6,176	6,115	6,015
79	316,00	273,6640	320,00	311,31	308,33	309,53	6,216	6,175	6,115	6,014
80	320,00	277,1281	324,00	315,31	312,33	313,53	6,216	6,175	6,114	6,013
81	324,00	280,5922	328,00	319,31	316,33	317,53	6,215	6,175	6,114	6,013
82	328,00	284,0563	332,00	323,31	320,33	321,53	6,215	6,175	6,114	6,012
83	332,00	287,5204	336,00	327,31	324,33	325,53	6,215	6,174	6,113	6,011
84	336,00	290,9845	340,00	331,30	328,33	329,53	6,215	6,174	6,113	6,011
85	340,00	294,4486	344,00	335,30	332,33	333,53	6,215	6,174	6,112	6,010
86	344,00	297,9127	348,00	339,30	336,33	337,53	6,215	6,174	6,112	6,009
87	348,00	301,3768	352,00	343,30	340,32	341,52	6,214	6,173	6,112	6,009
88	352,00	304,8409	356,00	347,30	344,32	345,52	6,214	6,173	6,111	6,008
89	356,00	308,3050	360,00	351,30	348,32	349,52	6,214	6,173	6,111	6,007
90	360,00	311,7691	364,00	355,30	352,32	353,52	6,214	6,172	6,110	6,007
91	364,00	315,2332	368,00	359,30	356,32	357,52	6,214	6,172	6,110	6,006
92	368,00	318,6973	372,00	363,30	360,32	361,52	6,214	6,172	6,110	6,005
93	372,00	322,1615	376,00	367,29	364,32	365,52	6,213	6,172	6,109	6,005
94	376,00	325,6256	380,00	371,29	368,32	369,52	6,213	6,171	6,109	6,004
95	380,00	329,0897	384,00	375,29	372,32	373,52	6,213	6,171	6,108	6,004
96	384,00	332,5538	388,00	379,29	376,31	377,51	6,213	6,171	6,108	6,003
97	388,00	336,0179	392,00	383,29	380,31	381,51	6,213	6,171	6,108	6,002
98	392,00	339,4820	396,00	387,29	384,31	385,51	6,213	6,170	6,107	6,002
99	396,00	342,9461	400,00	391,29	388,31	389,51	6,213	6,170	6,107	6,001
100	400,00	346,4102	404,00	395,29	392,31	393,51	6,212	6,170	6,106	6,001

Table 39 — Inspection dimensions internal spline, $\alpha = 30°$, $m = 4$, flat or fillet root, $E_{v\,min} = 6{,}283$

z	D_{Ri}	Measurement over balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—	—
8	6,70	22,268	22,355	22,293	22,437	22,329	22,556	22,386	22,746	2,562
9	6,70	25,883	25,958	25,905	26,031	25,937	26,138	25,987	26,310	2,322
10	7,10	28,790	28,888	28,820	28,981	28,862	29,115	28,927	29,328	2,800
11	7,10	32,548	32,630	32,573	32,711	32,610	32,830	32,666	33,021	2,514
12	7,10	37,060	37,136	37,084	37,212	37,118	37,325	37,172	37,507	2,388
13	7,10	40,783	40,854	40,805	40,926	40,838	41,033	40,889	41,208	2,269
14	7,10	45,190	45,259	45,213	45,330	45,245	45,434	45,295	45,606	2,212
15	7,10	48,926	48,993	48,948	49,061	48,980	49,163	49,029	49,330	2,144
16	7,10	53,271	53,336	53,292	53,403	53,324	53,504	53,373	53,670	2,112
17	7,10	57,026	57,089	57,047	57,156	57,079	57,255	57,127	57,419	2,067
18	7,10	61,326	61,388	61,348	61,455	61,379	61,554	61,427	61,717	2,047
19	7,10	65,100	65,161	65,122	65,227	65,153	65,325	65,201	65,487	2,015
20	7,10	69,366	69,427	69,388	69,493	69,420	69,590	69,468	69,752	2,001
21	7,10	73,158	73,218	73,180	73,283	73,211	73,380	73,260	73,541	1,977
22	7,10	77,398	77,457	77,420	77,522	77,451	77,619	77,500	77,780	1,967
23	7,10	81,204	81,263	81,227	81,328	81,258	81,425	81,307	81,585	1,948
24	7,10	85,423	85,481	85,445	85,546	85,477	85,643	85,526	85,804	1,941
25	7,10	89,243	89,301	89,265	89,365	89,297	89,462	89,347	89,623	1,926
26	7,10	93,443	93,501	93,466	93,565	93,498	93,662	93,548	93,823	1,919
27	7,10	97,275	97,332	97,298	97,397	97,330	97,494	97,380	97,654	1,907
28	7,10	101,460	101,517	101,483	101,582	101,516	101,679	101,566	101,840	1,902
29	7,10	105,303	105,359	105,326	105,424	105,359	105,521	105,409	105,682	1,892
30	7,10	109,475	109,531	109,498	109,596	109,531	109,693	109,582	109,854	1,888
31	7,10	113,326	113,382	113,350	113,447	113,383	113,544	113,435	113,706	1,879
32	7,10	117,487	117,543	117,511	117,608	117,545	117,705	117,596	117,867	1,876
33	7,10	121,347	121,402	121,371	121,468	121,405	121,565	121,457	121,727	1,868
34	7,10	125,498	125,553	125,522	125,619	125,556	125,716	125,609	125,879	1,865
35	7,10	129,366	129,420	129,390	129,486	129,424	129,584	129,477	129,746	1,859
36	7,10	133,508	133,562	133,532	133,628	133,567	133,726	133,620	133,889	1,856
37	7,10	137,382	137,436	137,407	137,502	137,441	137,600	137,495	137,764	1,851
38	7,10	141,517	141,570	141,541	141,636	141,576	141,735	141,630	141,899	1,849
39	7,10	145,397	145,450	145,422	145,516	145,457	145,615	145,511	145,779	1,843
40	7,10	149,524	149,578	149,549	149,644	149,585	149,743	149,639	149,908	1,842
41	7,50	152,146	152,200	152,172	152,268	152,208	152,369	152,264	152,537	1,873
42	7,50	156,268	156,323	156,294	156,390	156,331	156,492	156,387	156,660	1,870
43	7,50	160,162	160,215	160,188	160,283	160,224	160,385	160,281	160,553	1,865
44	7,50	164,278	164,332	164,304	164,400	164,342	164,502	164,399	164,671	1,862
45	7,50	168,176	168,229	168,202	168,297	168,239	168,399	168,297	168,568	1,858
46	7,50	172,287	172,340	172,314	172,409	172,351	172,511	172,409	172,681	1,855
47	7,50	176,189	176,242	176,215	176,310	176,253	176,412	176,311	176,582	1,851
48	7,50	180,295	180,348	180,322	180,417	180,360	180,519	180,418	180,690	1,849
49	7,50	184,201	184,253	184,228	184,322	184,266	184,424	184,324	184,595	1,845
50	7,50	188,303	188,355	188,330	188,424	188,368	188,527	188,427	188,698	1,844
51	7,50	192,212	192,264	192,239	192,333	192,278	192,436	192,337	192,607	1,840
52	7,50	196,310	196,362	196,337	196,431	196,376	196,534	196,436	196,706	1,839
53	7,50	200,222	200,274	200,249	200,343	200,289	200,446	200,348	200,618	1,835
54	7,50	204,316	204,368	204,344	204,437	204,383	204,541	204,444	204,713	1,834
55	7,50	208,231	208,283	208,259	208,352	208,299	208,456	208,359	208,629	1,831
56	7,50	212,322	212,374	212,350	212,443	212,390	212,547	212,451	212,720	1,830
57	7,50	216,240	216,291	216,268	216,361	216,308	216,465	216,369	216,639	1,827
58	7,50	220,328	220,379	220,356	220,449	220,396	220,553	220,458	220,727	1,826
59	7,50	224,248	224,299	224,277	224,369	224,317	224,474	224,379	224,648	1,823
60	7,50	228,333	228,384	228,362	228,454	228,402	228,559	228,464	228,733	1,822
61	7,50	232,256	232,306	232,285	232,377	232,326	232,482	232,388	232,657	1,820
62	7,50	236,338	236,388	236,367	236,459	236,408	236,564	236,471	236,739	1,819
63	7,50	240,263	240,313	240,292	240,384	240,334	240,489	240,397	240,665	1,817
64	7,50	244,342	244,393	244,372	244,463	244,413	244,569	244,477	244,745	1,816
65	7,50	248,270	248,320	248,299	248,391	248,341	248,497	248,405	248,673	1,814
66	7,50	252,347	252,397	252,376	252,468	252,418	252,574	252,482	252,751	1,813
67	7,50	256,276	256,326	256,306	256,397	256,348	256,504	256,413	256,681	1,811
68	7,50	260,351	260,400	260,381	260,472	260,423	260,578	260,488	260,756	1,810
69	7,50	264,282	264,332	264,312	264,403	264,355	264,510	264,420	264,688	1,808
70	7,50	268,355	268,404	268,385	268,476	268,428	268,583	268,493	268,761	1,808
71	7,50	272,288	272,337	272,318	272,409	272,361	272,516	272,427	272,695	1,806
72	7,50	276,358	276,407	276,389	276,479	276,432	276,587	276,498	276,766	1,805
73	7,50	280,293	280,342	280,324	280,414	280,368	280,522	280,434	280,702	1,804
74	7,50	284,362	284,411	284,393	284,483	284,436	284,591	284,503	284,771	1,803
75	7,50	288,299	288,347	288,330	288,420	288,373	288,528	288,440	288,708	1,801
76	7,50	292,365	292,414	292,396	292,486	292,440	292,595	292,508	292,775	1,801
77	7,50	296,303	296,352	296,335	296,425	296,379	296,533	296,447	296,714	1,799
78	7,50	300,368	300,417	300,400	300,489	300,444	300,598	300,512	300,780	1,799
79	7,50	304,308	304,356	304,340	304,429	304,385	304,538	304,453	304,720	1,798
80	7,50	308,371	308,420	308,403	308,492	308,448	308,602	308,516	308,784	1,797
81	7,50	312,313	312,361	312,345	312,434	312,390	312,543	312,458	312,726	1,796
82	7,50	316,374	316,422	316,406	316,495	316,452	316,605	316,521	316,788	1,795
83	7,50	320,317	320,365	320,349	320,438	320,395	320,548	320,464	320,731	1,794
84	7,50	324,377	324,425	324,409	324,498	324,455	324,608	324,525	324,792	1,793
85	7,50	328,321	328,369	328,354	328,442	328,400	328,553	328,469	328,736	1,792
86	7,50	332,380	332,427	332,412	332,501	332,459	332,612	332,529	332,796	1,792
87	7,50	336,325	336,372	336,358	336,446	336,404	336,557	336,475	336,742	1,791
88	7,50	340,382	340,430	340,415	340,504	340,462	340,615	340,533	340,800	1,790
89	7,50	344,329	344,376	344,362	344,450	344,409	344,561	344,480	344,747	1,789
90	7,50	348,385	348,432	348,418	348,506	348,465	348,618	348,536	348,803	1,789
91	7,50	352,332	352,379	352,366	352,454	352,413	352,566	352,485	352,751	1,788
92	7,50	356,387	356,434	356,421	356,509	356,468	356,621	356,540	356,807	1,788
93	7,50	360,336	360,383	360,370	360,457	360,417	360,570	360,489	360,756	1,787
94	7,50	364,389	364,436	364,423	364,511	364,471	364,623	364,544	364,810	1,786
95	7,50	368,339	368,386	368,373	368,461	368,421	368,573	368,494	368,761	1,785
96	7,50	372,392	372,438	372,426	372,513	372,474	372,626	372,547	372,814	1,785
97	7,50	376,342	376,389	376,377	376,464	376,425	376,577	376,498	376,765	1,784
98	7,50	380,394	380,440	380,428	380,516	380,477	380,629	380,550	380,817	1,784
99	7,50	384,346	384,392	384,380	384,467	384,429	384,581	384,503	384,769	1,783
100	7,50	388,396	388,442	388,431	388,518	388,480	388,631	388,554	388,820	1,783

Table 40 — Inspection dimensions external spline, $\alpha = 30°$, $m = 4$, flat or fillet root, $S_{v\,max} = 6{,}283$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	9,00	38,640	38,676	38,606	38,667	38,555	38,652	38,470	38,629	1,222
7	8,50	40,692	40,729	40,656	40,718	40,603	40,703	40,514	40,679	1,252
8	8,50	45,594	45,633	45,556	45,622	45,500	45,606	45,405	45,580	1,311
9	8,50	49,032	49,071	48,994	49,060	48,937	49,043	48,841	49,017	1,315
10	8,50	53,712	53,753	53,673	53,741	53,613	53,723	53,513	53,696	1,356
11	8,00	55,968	56,010	55,927	55,997	55,864	55,979	55,760	55,950	1,397
12	8,00	60,494	60,537	60,451	60,523	60,387	60,504	60,279	60,474	1,428
13	8,00	64,111	64,153	64,067	64,140	64,002	64,120	63,893	64,090	1,432
14	8,00	68,549	68,592	68,504	68,578	68,437	68,558	68,325	68,526	1,456
15	8,00	72,218	72,261	72,173	72,247	72,105	72,226	71,992	72,194	1,460
16	8,00	76,592	76,636	76,546	76,622	76,477	76,600	76,362	76,567	1,479
17	8,00	80,301	80,345	80,255	80,330	80,185	80,309	80,069	80,275	1,483
18	8,00	84,628	84,673	84,581	84,657	84,510	84,635	84,391	84,600	1,499
19	8,00	88,369	88,413	88,321	88,397	88,249	88,375	88,129	88,340	1,503
20	8,00	92,658	92,703	92,610	92,687	92,537	92,664	92,415	92,628	1,516
21	8,00	96,424	96,469	96,375	96,452	96,301	96,429	96,178	96,392	1,519
22	8,00	100,684	100,729	100,634	100,712	100,560	100,688	100,435	100,651	1,530
23	8,00	104,470	104,515	104,420	104,498	104,345	104,474	104,219	104,436	1,533
24	8,00	108,706	108,751	108,655	108,734	108,579	108,709	108,452	108,671	1,543
25	8,00	112,509	112,555	112,458	112,537	112,381	112,512	112,253	112,473	1,546
26	8,00	116,725	116,771	116,673	116,753	116,596	116,727	116,466	116,687	1,554
27	8,00	120,543	120,588	120,491	120,570	120,413	120,544	120,282	120,504	1,557
28	8,00	124,742	124,787	124,689	124,769	124,610	124,742	124,478	124,701	1,564
29	7,50	127,164	127,211	127,111	127,192	127,030	127,165	126,894	127,122	1,595
30	7,50	131,345	131,391	131,290	131,372	131,209	131,344	131,073	131,302	1,601
31	7,50	135,185	135,232	135,130	135,212	135,048	135,184	134,911	135,141	1,602
32	7,50	139,353	139,400	139,298	139,380	139,215	139,352	139,077	139,308	1,608
33	7,50	143,203	143,250	143,148	143,230	143,065	143,201	142,926	143,157	1,609
34	7,50	147,361	147,408	147,305	147,387	147,221	147,358	147,081	147,314	1,614
35	7,50	151,220	151,266	151,164	151,246	151,079	151,216	150,938	151,171	1,615
36	7,50	155,368	155,415	155,311	155,394	155,226	155,364	155,084	155,318	1,619
37	7,50	159,234	159,281	159,177	159,260	159,092	159,230	158,949	159,183	1,621
38	7,50	163,374	163,421	163,317	163,399	163,231	163,369	163,087	163,322	1,625
39	7,50	167,247	167,294	167,190	167,272	167,103	167,242	166,959	167,194	1,626
40	7,50	171,379	171,426	171,322	171,404	171,235	171,373	171,089	171,326	1,629
41	7,50	175,259	175,305	175,201	175,283	175,113	175,252	174,967	175,204	1,630
42	7,50	179,384	179,431	179,326	179,409	179,238	179,377	179,091	179,329	1,634
43	7,50	183,269	183,316	183,211	183,294	183,122	183,262	182,975	183,213	1,634
44	7,50	187,389	187,436	187,330	187,413	187,241	187,381	187,093	187,331	1,637
45	7,50	191,279	191,326	191,220	191,303	191,130	191,270	190,981	191,220	1,638
46	7,50	195,393	195,440	195,333	195,416	195,244	195,384	195,094	195,333	1,641
47	7,50	199,288	199,334	199,228	199,311	199,138	199,278	198,987	199,227	1,642
48	7,50	203,397	203,443	203,337	203,420	203,246	203,386	203,095	203,335	1,645
49	7,50	207,296	207,342	207,235	207,319	207,144	207,285	206,993	207,233	1,645
50	7,50	211,400	211,447	211,339	211,423	211,248	211,389	211,096	211,336	1,648
51	7,50	215,303	215,350	215,242	215,325	215,150	215,291	214,997	215,239	1,648
52	7,50	219,403	219,450	219,342	219,425	219,250	219,391	219,096	219,338	1,651
53	7,50	223,310	223,356	223,249	223,332	223,156	223,297	223,002	223,244	1,651
54	7,50	227,406	227,453	227,344	227,428	227,252	227,393	227,096	227,339	1,653
55	7,50	231,316	231,363	231,254	231,338	231,161	231,302	231,005	231,248	1,654
56	7,50	235,409	235,455	235,347	235,430	235,253	235,394	235,097	235,340	1,656
57	7,50	239,322	239,368	239,260	239,343	239,166	239,307	239,009	239,252	1,657
58	7,50	243,412	243,458	243,349	243,432	243,254	243,396	243,097	243,340	1,658
59	7,50	247,328	247,374	247,265	247,348	247,170	247,311	247,012	247,256	1,659
60	7,50	251,414	251,460	251,350	251,434	251,255	251,397	251,096	251,341	1,661
61	7,50	255,333	255,379	255,269	255,352	255,174	255,315	255,014	255,259	1,661
62	7,50	259,416	259,462	259,352	259,435	259,256	259,398	259,096	259,341	1,663
63	7,50	263,337	263,383	263,273	263,357	263,177	263,319	263,017	263,262	1,663
64	7,50	267,418	267,464	267,354	267,437	267,257	267,399	267,096	267,341	1,665
65	7,50	271,342	271,387	271,277	271,361	271,180	271,323	271,019	271,264	1,665
66	7,50	275,420	275,465	275,355	275,438	275,258	275,400	275,096	275,342	1,667
67	7,50	279,346	279,391	279,281	279,364	279,183	279,326	279,021	279,267	1,667
68	7,50	283,422	283,467	283,356	283,440	283,258	283,401	283,095	283,342	1,668
69	7,50	287,350	287,395	287,284	287,368	287,186	287,329	287,022	287,269	1,669
70	7,50	291,423	291,468	291,358	291,441	291,259	291,401	291,094	291,341	1,670
71	7,50	295,353	295,399	295,288	295,371	295,189	295,331	295,024	295,271	1,671
72	7,50	299,425	299,470	299,359	299,442	299,259	299,402	299,094	299,341	1,672
73	7,50	303,357	303,402	303,291	303,374	303,191	303,334	303,025	303,273	1,672
74	7,50	307,426	307,471	307,360	307,443	307,260	307,402	307,093	307,341	1,673
75	7,50	311,360	311,405	311,293	311,376	311,193	311,336	311,026	311,274	1,674
76	7,50	315,427	315,472	315,360	315,443	315,260	315,403	315,092	315,341	1,675
77	7,50	319,363	319,408	319,296	319,379	319,195	319,338	319,027	319,276	1,675
78	7,50	323,429	323,473	323,361	323,444	323,260	323,403	323,092	323,340	1,676
79	7,50	327,366	327,411	327,298	327,381	327,197	327,340	327,028	327,277	1,676
80	7,50	331,430	331,474	331,362	331,445	331,260	331,403	331,091	331,340	1,677
81	7,50	335,369	335,413	335,301	335,384	335,199	335,342	335,029	335,278	1,678
82	7,50	339,431	339,475	339,363	339,446	339,260	339,403	339,090	339,339	1,679
83	7,50	343,371	343,416	343,303	343,386	343,200	343,343	343,029	343,279	1,679
84	7,50	347,432	347,476	347,363	347,446	347,261	347,403	347,089	347,339	1,680
85	7,50	351,374	351,418	351,305	351,388	351,202	351,345	351,030	351,280	1,680
86	7,50	355,433	355,477	355,364	355,447	355,261	355,404	355,088	355,338	1,681
87	7,50	359,376	359,420	359,307	359,389	359,203	359,346	359,030	359,280	1,681
88	7,50	363,434	363,478	363,364	363,447	363,260	363,404	363,087	363,337	1,682
89	7,50	367,378	367,422	367,309	367,391	367,204	367,347	367,031	367,281	1,682
90	7,50	371,434	371,478	371,365	371,447	371,260	371,403	371,086	371,337	1,683
91	7,50	375,380	375,424	375,310	375,393	375,206	375,349	375,031	375,281	1,683
92	7,50	379,435	379,479	379,365	379,448	379,260	379,403	379,085	379,336	1,684
93	7,50	383,382	383,426	383,312	383,394	383,207	383,350	383,031	383,282	1,684
94	7,50	387,436	387,480	387,366	387,448	387,260	387,403	387,084	387,335	1,685
95	7,50	391,384	391,428	391,313	391,396	391,208	391,351	391,031	391,282	1,685
96	7,50	395,437	395,480	395,366	395,448	395,260	395,403	395,083	395,334	1,686
97	7,50	399,386	399,429	399,315	399,397	399,208	399,352	399,031	399,283	1,686
98	7,50	403,437	403,481	403,366	403,448	403,260	403,403	403,082	403,333	1,687
99	7,50	407,387	407,431	407,316	407,398	407,209	407,352	407,031	407,283	1,687
100	7,50	411,438	411,481	411,366	411,449	411,259	411,403	411,081	411,333	1,688

5.11 30° pressure angle, module 5

Table 41 — Geometry internal spline, $\alpha = 30°$, $m = 5$, flat and fillet root, $E_{v\,min} = 7{,}854$

z	D	D_b	$D_{ei\,max}$ Fillet root	$D_{ei\,max}$ Flat	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
							4H	5H	6H	7H
6	30,00	25,9808	39,35	37,85	36,00	27,15	7,904	7,935	7,980	8,056
7	35,00	30,3109	44,35	42,85	41,00	31,81	7,905	7,936	7,982	8,059
8	40,00	34,6410	49,36	47,86	46,00	36,55	7,906	7,937	7,984	8,062
9	45,00	38,9711	54,36	52,86	51,00	41,36	7,907	7,938	7,985	8,064
10	50,00	43,3013	59,37	57,87	56,00	46,21	7,907	7,939	7,987	8,067
11	55,00	47,6314	64,37	62,87	61,00	51,09	7,908	7,940	7,988	8,069
12	60,00	51,9615	69,38	67,88	66,00	55,99	7,908	7,941	7,990	8,071
13	65,00	56,2917	74,38	72,88	71,00	60,91	7,909	7,942	7,991	8,073
14	70,00	60,6218	79,38	77,88	76,00	65,84	7,909	7,943	7,992	8,075
15	75,00	64,9519	84,39	82,89	81,00	70,78	7,910	7,943	7,994	8,077
16	80,00	69,2820	89,39	87,89	86,00	75,73	7,910	7,944	7,995	8,079
17	85,00	73,6122	94,39	92,89	91,00	80,68	7,911	7,945	7,996	8,081
18	90,00	77,9423	99,40	97,90	96,00	85,64	7,911	7,945	7,997	8,083
19	95,00	82,2724	104,40	102,90	101,00	90,60	7,912	7,946	7,998	8,084
20	100,00	86,6025	109,40	107,90	106,00	95,57	7,912	7,947	7,999	8,086
21	105,00	90,9327	114,40	112,90	111,00	100,54	7,912	7,947	8,000	8,087
22	110,00	95,2628	119,41	117,91	116,00	105,52	7,913	7,948	8,001	8,089
23	115,00	99,5929	124,41	122,91	121,00	110,49	7,913	7,949	8,002	8,091
24	120,00	103,9230	129,41	127,91	126,00	115,47	7,913	7,949	8,003	8,092
25	125,00	108,2532	134,41	132,91	131,00	120,45	7,914	7,950	8,004	8,093
26	130,00	112,5833	139,42	137,92	136,00	125,43	7,914	7,950	8,004	8,095
27	135,00	116,9134	144,42	142,92	141,00	130,42	7,915	7,951	8,005	8,096
28	140,00	121,2436	149,42	147,92	146,00	135,40	7,915	7,951	8,006	8,097
29	145,00	125,5737	154,42	152,92	151,00	140,39	7,915	7,952	8,007	8,099
30	150,00	129,9038	159,43	157,93	156,00	145,37	7,916	7,952	8,008	8,100
31	155,00	134,2339	164,43	162,93	161,00	150,36	7,916	7,953	8,009	8,101
32	160,00	138,5641	169,43	167,93	166,00	155,35	7,916	7,953	8,009	8,102
33	165,00	142,8942	174,43	172,93	171,00	160,34	7,916	7,954	8,010	8,104
34	170,00	147,2243	179,43	177,93	176,00	165,33	7,917	7,954	8,011	8,105
35	175,00	151,5544	184,44	182,94	181,00	170,32	7,917	7,955	8,012	8,106
36	180,00	155,8846	189,44	187,94	186,00	175,31	7,917	7,955	8,012	8,107
37	185,00	160,2147	194,44	192,94	191,00	180,30	7,918	7,956	8,013	8,108
38	190,00	164,5448	199,44	197,94	196,00	185,29	7,918	7,956	8,014	8,109
39	195,00	168,8750	204,44	202,94	201,00	190,29	7,918	7,957	8,014	8,111
40	200,00	173,2051	209,45	207,95	206,00	195,28	7,918	7,957	8,015	8,112
41	205,00	177,5352	214,45	212,95	211,00	200,27	7,919	7,957	8,016	8,113
42	210,00	181,8653	219,45	217,95	216,00	205,26	7,919	7,958	8,016	8,114
43	215,00	186,1955	224,45	222,95	221,00	210,26	7,919	7,958	8,017	8,115
44	220,00	190,5256	229,45	227,95	226,00	215,25	7,919	7,959	8,018	8,116
45	225,00	194,8557	234,46	232,96	231,00	220,25	7,920	7,959	8,018	8,117
46	230,00	199,1858	239,46	237,96	236,00	225,24	7,920	7,960	8,019	8,118
47	235,00	203,5160	244,46	242,96	241,00	230,24	7,920	7,960	8,020	8,119
48	240,00	207,8461	249,46	247,96	246,00	235,23	7,920	7,960	8,020	8,120
49	245,00	212,1762	254,46	252,96	251,00	240,23	7,921	7,961	8,021	8,121
50	250,00	216,5064	259,46	257,96	256,00	245,22	7,921	7,961	8,021	8,122
51	255,00	220,8365	264,47	262,97	261,00	250,22	7,921	7,961	8,022	8,123
52	260,00	225,1666	269,47	267,97	266,00	255,21	7,921	7,962	8,023	8,124
53	265,00	229,4967	274,47	272,97	271,00	260,21	7,922	7,962	8,023	8,125
54	270,00	233,8269	279,47	277,97	276,00	265,20	7,922	7,963	8,024	8,126
55	275,00	238,1570	284,47	282,97	281,00	270,20	7,922	7,963	8,024	8,126
56	280,00	242,4871	289,47	287,97	286,00	275,20	7,922	7,963	8,025	8,127
57	285,00	246,8172	294,47	292,97	291,00	280,19	7,923	7,964	8,025	8,128
58	290,00	251,1474	299,48	297,98	296,00	285,19	7,923	7,964	8,026	8,129
59	295,00	255,4775	304,48	302,98	301,00	290,19	7,923	7,964	8,027	8,130
60	300,00	259,8076	309,48	307,98	306,00	295,18	7,923	7,965	8,027	8,131
61	305,00	264,1377	314,48	312,98	311,00	300,18	7,923	7,965	8,028	8,132
62	310,00	268,4679	319,48	317,98	316,00	305,18	7,924	7,965	8,028	8,133
63	315,00	272,7980	324,48	322,98	321,00	310,17	7,924	7,966	8,029	8,133
64	320,00	277,1281	329,49	327,99	326,00	315,17	7,924	7,966	8,029	8,134
65	325,00	281,4583	334,49	332,99	331,00	320,17	7,924	7,966	8,030	8,135
66	330,00	285,7884	339,49	337,99	336,00	325,17	7,924	7,967	8,030	8,136
67	335,00	290,1185	344,49	342,99	341,00	330,16	7,925	7,967	8,031	8,137
68	340,00	294,4486	349,49	347,99	346,00	335,16	7,925	7,967	8,031	8,138
69	345,00	298,7788	354,49	352,99	351,00	340,16	7,925	7,968	8,032	8,138
70	350,00	303,1089	359,49	357,99	356,00	345,16	7,925	7,968	8,032	8,139
71	355,00	307,4390	364,50	363,00	361,00	350,15	7,926	7,968	8,033	8,140
72	360,00	311,7691	369,50	368,00	366,00	355,15	7,926	7,969	8,033	8,141
73	365,00	316,0993	374,50	373,00	371,00	360,15	7,926	7,969	8,034	8,142
74	370,00	320,4294	379,50	378,00	376,00	365,15	7,926	7,969	8,034	8,142
75	375,00	324,7595	384,50	383,00	381,00	370,15	7,926	7,970	8,035	8,143
76	380,00	329,0897	389,50	388,00	386,00	375,14	7,926	7,970	8,035	8,144
77	385,00	333,4198	394,50	393,00	391,00	380,14	7,927	7,970	8,036	8,145
78	390,00	337,7499	399,50	398,00	396,00	385,14	7,927	7,971	8,036	8,145
79	395,00	342,0800	404,51	403,01	401,00	390,14	7,927	7,971	8,037	8,146
80	400,00	346,4102	409,51	408,01	406,00	395,14	7,927	7,971	8,037	8,147
81	405,00	350,7403	414,51	413,01	411,00	400,14	7,927	7,972	8,038	8,148
82	410,00	355,0704	419,51	418,01	416,00	405,13	7,928	7,972	8,038	8,148
83	415,00	359,4005	424,51	423,01	421,00	410,13	7,928	7,972	8,039	8,149
84	420,00	363,7307	429,51	428,01	426,00	415,13	7,928	7,972	8,039	8,150
85	425,00	368,0608	434,51	433,01	431,00	420,13	7,928	7,973	8,039	8,151
86	430,00	372,3909	439,52	438,02	436,00	425,13	7,928	7,973	8,040	8,151
87	435,00	376,7211	444,52	443,02	441,00	430,13	7,929	7,973	8,040	8,152
88	440,00	381,0512	449,52	448,02	446,00	435,12	7,929	7,974	8,041	8,153
89	445,00	385,3813	454,52	453,02	451,00	440,12	7,929	7,974	8,041	8,154
90	450,00	389,7114	459,52	458,02	456,00	445,12	7,929	7,974	8,042	8,154
91	455,00	394,0416	464,52	463,02	461,00	450,12	7,929	7,974	8,042	8,155
92	460,00	398,3717	469,52	468,02	466,00	455,12	7,929	7,975	8,043	8,156
93	465,00	402,7018	474,52	473,02	471,00	460,12	7,930	7,975	8,043	8,156
94	470,00	407,0319	479,53	478,03	476,00	465,12	7,930	7,975	8,043	8,157
95	475,00	411,3621	484,53	483,03	481,00	470,12	7,930	7,976	8,044	8,158
96	480,00	415,6922	489,53	488,03	486,00	475,11	7,930	7,976	8,044	8,159
97	485,00	420,0223	494,53	493,03	491,00	480,11	7,930	7,976	8,045	8,159
98	490,00	424,3524	499,53	498,03	496,00	485,11	7,930	7,976	8,045	8,160
99	495,00	428,6826	504,53	503,03	501,00	490,11	7,931	7,977	8,046	8,161
100	500,00	433,0127	509,53	508,03	506,00	495,11	7,931	7,977	8,046	8,161

Table 42 — Geometry external spline, $\alpha = 30°$, $m = 5$, flat and fillet root, $S_{v\,max} = 7{,}854$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$ Fillet root	$D_{ie\,min}$ Flat	S_{min}			
							4h	5h	6h	7h
6	30,00	25,9808	35,00	26,15	20,65	22,15	7,804	7,773	7,728	7,652
7	35,00	30,3109	40,00	30,81	25,65	27,15	7,803	7,772	7,726	7,649
8	40,00	34,6410	45,00	35,55	30,64	32,14	7,802	7,771	7,724	7,646
9	45,00	38,9711	50,00	40,36	35,64	37,14	7,801	7,770	7,723	7,644
10	50,00	43,3013	55,00	45,21	40,63	42,13	7,801	7,769	7,721	7,641
11	55,00	47,6314	60,00	50,09	45,63	47,13	7,800	7,768	7,720	7,639
12	60,00	51,9615	65,00	54,99	50,62	52,12	7,800	7,767	7,718	7,637
13	65,00	56,2917	70,00	59,91	55,62	57,12	7,799	7,766	7,717	7,635
14	70,00	60,6218	75,00	64,84	60,62	62,12	7,799	7,765	7,716	7,633
15	75,00	64,9519	80,00	69,78	65,61	67,11	7,798	7,765	7,714	7,631
16	80,00	69,2820	85,00	74,73	70,61	72,11	7,798	7,764	7,713	7,629
17	85,00	73,6122	90,00	79,68	75,61	77,11	7,797	7,763	7,712	7,627
18	90,00	77,9423	95,00	84,64	80,60	82,10	7,797	7,763	7,711	7,625
19	95,00	82,2724	100,00	89,60	85,60	87,10	7,796	7,762	7,710	7,624
20	100,00	86,6025	105,00	94,57	90,60	92,10	7,796	7,761	7,709	7,622
21	105,00	90,9327	110,00	99,54	95,60	97,10	7,796	7,761	7,708	7,621
22	110,00	95,2628	115,00	104,52	100,59	102,09	7,795	7,760	7,707	7,619
23	115,00	99,5929	120,00	109,49	105,59	107,09	7,795	7,759	7,706	7,617
24	120,00	103,9230	125,00	114,47	110,59	112,09	7,795	7,759	7,705	7,616
25	125,00	108,2532	130,00	119,45	115,59	117,09	7,794	7,758	7,704	7,615
26	130,00	112,5833	135,00	124,43	120,58	122,08	7,794	7,758	7,704	7,613
27	135,00	116,9134	140,00	129,42	125,58	127,08	7,793	7,757	7,703	7,612
28	140,00	121,2436	145,00	134,40	130,58	132,08	7,793	7,757	7,702	7,611
29	145,00	125,5737	150,00	139,39	135,58	137,08	7,793	7,756	7,701	7,609
30	150,00	129,9038	155,00	144,37	140,57	142,07	7,792	7,756	7,700	7,608
31	155,00	134,2339	160,00	149,36	145,57	147,07	7,792	7,755	7,699	7,607
32	160,00	138,5641	165,00	154,35	150,57	152,07	7,792	7,755	7,699	7,606
33	165,00	142,8942	170,00	159,34	155,57	157,07	7,792	7,754	7,698	7,604
34	170,00	147,2243	175,00	164,33	160,57	162,07	7,791	7,754	7,697	7,603
35	175,00	151,5544	180,00	169,32	165,56	167,06	7,791	7,753	7,696	7,602
36	180,00	155,8846	185,00	174,31	170,56	172,06	7,791	7,753	7,696	7,601
37	185,00	160,2147	190,00	179,30	175,56	177,06	7,790	7,752	7,695	7,600
38	190,00	164,5448	195,00	184,29	180,56	182,06	7,790	7,752	7,694	7,599
39	195,00	168,8750	200,00	189,29	185,56	187,06	7,790	7,751	7,694	7,597
40	200,00	173,2051	205,00	194,28	190,55	192,05	7,790	7,751	7,693	7,596
41	205,00	177,5352	210,00	199,27	195,55	197,05	7,789	7,751	7,692	7,595
42	210,00	181,8653	215,00	204,26	200,55	202,05	7,789	7,750	7,692	7,594
43	215,00	186,1955	220,00	209,26	205,55	207,05	7,789	7,750	7,691	7,593
44	220,00	190,5256	225,00	214,25	210,55	212,05	7,789	7,749	7,690	7,592
45	225,00	194,8557	230,00	219,25	215,54	217,04	7,788	7,749	7,690	7,591
46	230,00	199,1858	235,00	224,24	220,54	222,04	7,788	7,748	7,689	7,590
47	235,00	203,5160	240,00	229,24	225,54	227,04	7,788	7,748	7,688	7,589
48	240,00	207,8461	245,00	234,23	230,54	232,04	7,788	7,748	7,688	7,588
49	245,00	212,1762	250,00	239,23	235,54	237,04	7,787	7,747	7,687	7,587
50	250,00	216,5064	255,00	244,22	240,54	242,04	7,787	7,747	7,687	7,586
51	255,00	220,8365	260,00	249,22	245,53	247,03	7,787	7,747	7,686	7,585
52	260,00	225,1666	265,00	254,21	250,53	252,03	7,787	7,746	7,685	7,584
53	265,00	229,4967	270,00	259,21	255,53	257,03	7,786	7,746	7,685	7,583
54	270,00	233,8269	275,00	264,20	260,53	262,03	7,786	7,745	7,684	7,582
55	275,00	238,1570	280,00	269,20	265,53	267,03	7,786	7,745	7,684	7,582
56	280,00	242,4871	285,00	274,20	270,53	272,03	7,786	7,745	7,683	7,581
57	285,00	246,8172	290,00	279,19	275,53	277,03	7,785	7,744	7,683	7,580
58	290,00	251,1474	295,00	284,19	280,52	282,02	7,785	7,744	7,682	7,579
59	295,00	255,4775	300,00	289,19	285,52	287,02	7,785	7,744	7,681	7,578
60	300,00	259,8076	305,00	294,18	290,52	292,02	7,785	7,743	7,681	7,577
61	305,00	264,1377	310,00	299,18	295,52	297,02	7,785	7,743	7,680	7,576
62	310,00	268,4679	315,00	304,18	300,52	302,02	7,784	7,743	7,680	7,575
63	315,00	272,7980	320,00	309,17	305,52	307,02	7,784	7,742	7,679	7,575
64	320,00	277,1281	325,00	314,17	310,51	312,01	7,784	7,742	7,679	7,574
65	325,00	281,4583	330,00	319,17	315,51	317,01	7,784	7,742	7,678	7,573
66	330,00	285,7884	335,00	324,17	320,51	322,01	7,784	7,741	7,678	7,572
67	335,00	290,1185	340,00	329,16	325,51	327,01	7,783	7,741	7,677	7,571
68	340,00	294,4486	345,00	334,16	330,51	332,01	7,783	7,741	7,677	7,570
69	345,00	298,7788	350,00	339,16	335,51	337,01	7,783	7,740	7,676	7,570
70	350,00	303,1089	355,00	344,16	340,51	342,01	7,783	7,740	7,676	7,569
71	355,00	307,4390	360,00	349,15	345,50	347,00	7,782	7,740	7,675	7,568
72	360,00	311,7691	365,00	354,15	350,50	352,00	7,782	7,739	7,675	7,567
73	365,00	316,0993	370,00	359,15	355,50	357,00	7,782	7,739	7,674	7,566
74	370,00	320,4294	375,00	364,15	360,50	362,00	7,782	7,739	7,674	7,566
75	375,00	324,7595	380,00	369,15	365,50	367,00	7,782	7,738	7,673	7,565
76	380,00	329,0897	385,00	374,14	370,50	372,00	7,782	7,738	7,673	7,564
77	385,00	333,4198	390,00	379,14	375,50	377,00	7,781	7,738	7,672	7,563
78	390,00	337,7499	395,00	384,14	380,50	382,00	7,781	7,737	7,672	7,563
79	395,00	342,0800	400,00	389,14	385,49	386,99	7,781	7,737	7,671	7,562
80	400,00	346,4102	405,00	394,14	390,49	391,99	7,781	7,737	7,671	7,561
81	405,00	350,7403	410,00	399,14	395,49	396,99	7,781	7,736	7,670	7,560
82	410,00	355,0704	415,00	404,13	400,49	401,99	7,780	7,736	7,670	7,560
83	415,00	359,4005	420,00	409,13	405,49	406,99	7,780	7,736	7,669	7,559
84	420,00	363,7307	425,00	414,13	410,49	411,99	7,780	7,736	7,669	7,558
85	425,00	368,0608	430,00	419,13	415,49	416,99	7,780	7,735	7,669	7,557
86	430,00	372,3909	435,00	424,13	420,48	421,98	7,780	7,735	7,668	7,557
87	435,00	376,7211	440,00	429,13	425,48	426,98	7,779	7,735	7,668	7,556
88	440,00	381,0512	445,00	434,12	430,48	431,98	7,779	7,734	7,667	7,555
89	445,00	385,3813	450,00	439,12	435,48	436,98	7,779	7,734	7,667	7,554
90	450,00	389,7114	455,00	444,12	440,48	441,98	7,779	7,734	7,666	7,554
91	455,00	394,0416	460,00	449,12	445,48	446,98	7,779	7,734	7,666	7,553
92	460,00	398,3717	465,00	454,12	450,48	451,98	7,779	7,733	7,665	7,552
93	465,00	402,7018	470,00	459,12	455,48	456,98	7,778	7,733	7,665	7,552
94	470,00	407,0319	475,00	464,12	460,47	461,97	7,778	7,733	7,665	7,551
95	475,00	411,3621	480,00	469,12	465,47	466,97	7,778	7,732	7,664	7,550
96	480,00	415,6922	485,00	474,11	470,47	471,97	7,778	7,732	7,664	7,549
97	485,00	420,0223	490,00	479,11	475,47	476,97	7,778	7,732	7,663	7,549
98	490,00	424,3524	495,00	484,11	480,47	481,97	7,778	7,732	7,663	7,548
99	495,00	428,6826	500,00	489,11	485,47	486,97	7,777	7,731	7,662	7,547
100	500,00	433,0127	505,00	494,11	490,47	491,97	7,777	7,731	7,662	7,547

Table 43 — Inspection dimensions internal spline, $\alpha = 30°$, $m = 5$, flat and fillet root, $E_{v\,min} = 7{,}854$

z	D_{Ri}	Measurement over balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—	—
8	8,50	27,236	27,346	27,268	27,449	27,315	27,596	27,387	27,828	2,875
9	8,50	31,838	31,926	31,864	32,011	31,902	32,135	31,962	32,336	2,497
10	8,50	37,586	37,667	37,611	37,746	37,647	37,863	37,703	38,054	2,358
11	8,50	42,150	42,225	42,174	42,300	42,207	42,410	42,260	42,592	2,225
12	8,50	47,733	47,805	47,756	47,878	47,789	47,986	47,841	48,165	2,171
13	9,00	50,491	50,571	50,517	50,653	50,555	50,773	50,614	50,970	2,369
14	9,00	56,015	56,092	56,041	56,170	56,077	56,287	56,134	56,479	2,291
15	9,00	60,699	60,772	60,723	60,848	60,759	60,961	60,815	61,147	2,209
16	9,00	66,137	66,208	66,161	66,283	66,197	66,394	66,252	66,579	2,167
17	9,00	70,839	70,908	70,863	70,982	70,898	71,091	70,953	71,272	2,115
18	9,00	76,218	76,286	76,243	76,359	76,278	76,468	76,332	76,648	2,089
19	9,00	80,942	81,009	80,966	81,081	81,001	81,189	81,056	81,367	2,053
20	9,00	86,278	86,344	86,302	86,416	86,337	86,523	86,392	86,701	2,035
21	9,00	91,022	91,086	91,046	91,158	91,081	91,264	91,135	91,441	2,008
22	9,00	96,323	96,387	96,348	96,459	96,383	96,565	96,438	96,742	1,995
23	9,00	101,085	101,148	101,110	101,219	101,145	101,325	101,200	101,501	1,975
24	9,00	106,359	106,422	106,384	106,493	106,420	106,599	106,475	106,775	1,965
25	9,00	111,137	111,199	111,162	111,270	111,198	111,376	111,253	111,551	1,948
26	9,00	116,389	116,450	116,414	116,521	116,450	116,627	116,505	116,803	1,941
27	9,00	121,181	121,242	121,206	121,313	121,242	121,418	121,298	121,594	1,927
28	9,00	126,413	126,474	126,438	126,545	126,475	126,651	126,531	126,826	1,921
29	9,00	131,218	131,278	131,243	131,349	131,280	131,455	131,337	131,630	1,910
30	9,00	136,434	136,494	136,459	136,565	136,496	136,671	136,553	136,847	1,905
31	9,00	141,250	141,309	141,276	141,380	141,313	141,486	141,370	141,662	1,895
32	9,00	146,451	146,511	146,478	146,582	146,515	146,688	146,573	146,865	1,891
33	9,00	151,278	151,336	151,304	151,408	151,342	151,514	151,400	151,691	1,883
34	9,00	156,467	156,525	156,493	156,597	156,531	156,703	156,590	156,881	1,880
35	9,00	161,302	161,360	161,329	161,432	161,367	161,538	161,426	161,716	1,873
36	9,00	166,480	166,538	166,507	166,610	166,546	166,717	166,605	166,895	1,870
37	9,00	171,324	171,382	171,351	171,453	171,390	171,560	171,449	171,738	1,863
38	9,00	176,492	176,550	176,520	176,622	176,559	176,729	176,619	176,908	1,861
39	9,00	181,344	181,401	181,371	181,473	181,410	181,580	181,471	181,759	1,855
40	9,00	186,503	186,560	186,531	186,632	186,571	186,740	186,631	186,919	1,853
41	9,00	191,361	191,418	191,389	191,490	191,429	191,598	191,490	191,778	1,848
42	9,00	196,513	196,569	196,541	196,642	196,581	196,750	196,643	196,930	1,846
43	9,00	201,377	201,433	201,405	201,506	201,446	201,614	201,508	201,795	1,842
44	9,00	206,522	206,578	206,550	206,651	206,591	206,759	206,653	206,940	1,840
45	9,00	211,392	211,447	211,420	211,520	211,461	211,629	211,524	211,810	1,836
46	9,00	216,530	216,585	216,559	216,658	216,600	216,768	216,663	216,950	1,834
47	9,00	221,405	221,460	221,434	221,533	221,475	221,643	221,539	221,825	1,831
48	9,00	226,537	226,592	226,567	226,666	226,608	226,776	226,672	226,958	1,829
49	9,00	231,417	231,472	231,447	231,546	231,489	231,656	231,553	231,839	1,826
50	9,00	236,544	236,599	236,574	236,673	236,616	236,783	236,681	236,966	1,825
51	9,00	241,428	241,483	241,458	241,557	241,501	241,667	241,566	241,851	1,822
52	9,00	246,550	246,605	246,580	246,679	246,623	246,790	246,689	246,974	1,821
53	9,00	251,439	251,493	251,469	251,567	251,512	251,678	251,578	251,863	1,818
54	9,00	256,556	256,610	256,587	256,685	256,630	256,796	256,696	256,981	1,817
55	9,00	261,449	261,503	261,479	261,577	261,523	261,689	261,589	261,874	1,815
56	9,00	266,562	266,615	266,593	266,690	266,636	266,802	266,703	266,988	1,814
57	9,00	271,458	271,511	271,489	271,586	271,533	271,698	271,600	271,885	1,811
58	9,00	276,567	276,620	276,598	276,695	276,642	276,808	276,710	276,995	1,810
59	9,00	281,466	281,520	281,498	281,595	281,542	281,707	281,610	281,895	1,808
60	9,00	286,572	286,625	286,603	286,700	286,648	286,813	286,717	287,001	1,807
61	9,00	291,474	291,527	291,506	291,603	291,551	291,716	291,620	291,904	1,805
62	9,00	296,576	296,629	296,608	296,705	296,654	296,818	296,723	297,007	1,805
63	9,00	301,482	301,534	301,514	301,610	301,560	301,724	301,629	301,913	1,803
64	9,00	306,580	306,633	306,613	306,709	306,659	306,823	306,729	307,013	1,802
65	9,00	311,489	311,541	311,521	311,617	311,567	311,732	311,638	311,922	1,800
66	9,00	316,584	316,637	316,617	316,713	316,664	316,828	316,734	317,018	1,800
67	9,00	321,496	321,548	321,528	321,624	321,575	321,739	321,646	321,930	1,798
68	9,00	326,588	326,640	326,621	326,717	326,668	326,832	326,740	327,023	1,797
69	9,00	331,502	331,554	331,535	331,631	331,582	331,746	331,654	331,937	1,796
70	9,00	336,592	336,644	336,625	336,721	336,673	336,836	336,745	337,028	1,795
71	9,00	341,508	341,559	341,541	341,637	341,589	341,752	341,662	341,945	1,794
72	9,00	346,595	346,647	346,629	346,724	346,677	346,840	346,750	347,033	1,793
73	9,00	351,514	351,565	351,547	351,642	351,596	351,759	351,669	351,952	1,792
74	9,00	356,599	356,650	356,633	356,728	356,681	356,844	356,755	357,038	1,792
75	9,00	361,519	361,570	361,553	361,648	361,602	361,765	361,676	361,959	1,790
76	9,00	366,602	366,653	366,636	366,731	366,685	366,848	366,759	367,043	1,790
77	9,00	371,524	371,575	371,559	371,653	371,608	371,770	371,682	371,966	1,789
78	9,00	376,605	376,655	376,640	376,734	376,689	376,851	376,764	377,047	1,788
79	9,00	381,529	381,580	381,564	381,658	381,614	381,776	381,689	381,972	1,787
80	9,00	386,608	386,658	386,643	386,737	386,693	386,855	386,768	387,051	1,787
81	9,00	391,534	391,584	391,569	391,663	391,619	391,781	391,695	391,978	1,786
82	9,00	396,611	396,661	396,646	396,740	396,696	396,858	396,773	397,056	1,785
83	9,00	401,538	401,588	401,574	401,668	401,624	401,786	401,701	401,984	1,784
84	9,00	406,613	406,663	406,649	406,742	406,700	406,861	406,777	407,060	1,784
85	9,00	411,543	411,592	411,579	411,672	411,630	411,791	411,707	411,990	1,783
86	9,00	416,616	416,665	416,652	416,745	416,703	416,865	416,781	417,064	1,782
87	9,00	421,547	421,596	421,583	421,676	421,635	421,796	421,713	421,995	1,781
88	9,00	426,618	426,668	426,655	426,748	426,706	426,868	426,785	427,067	1,781
89	9,00	431,551	431,600	431,587	431,680	431,639	431,801	431,718	432,001	1,780
90	9,00	436,621	436,670	436,657	436,750	436,710	436,871	436,789	437,071	1,780
91	9,00	441,555	441,604	441,592	441,684	441,644	441,805	441,723	442,006	1,779
92	9,00	446,623	446,672	446,660	446,753	446,713	446,874	446,792	447,075	1,779
93	9,00	451,558	451,607	451,596	451,688	451,648	451,809	451,729	452,011	1,778
94	9,00	456,625	456,674	456,663	456,755	456,716	456,876	456,796	457,079	1,778
95	9,00	461,562	461,611	461,600	461,692	461,653	461,813	461,734	462,016	1,777
96	9,00	466,627	466,676	466,665	466,757	466,719	466,879	466,800	467,082	1,777
97	9,00	471,565	471,614	471,603	471,695	471,657	471,817	471,738	472,021	1,776
98	9,00	476,629	476,678	476,668	476,759	476,721	476,882	476,803	477,086	1,776
99	9,00	481,569	481,617	481,607	481,699	481,661	481,821	481,743	482,026	1,775
100	9,00	486,631	486,680	486,670	486,762	486,724	486,884	486,807	487,089	1,775

Table 44 — Inspection dimensions external spline, $\alpha = 30°$, $m = 5$, flat or fillet root, $S_{v\,max} = 7{,}854$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	11,20	48,190	48,229	48,153	48,218	48,098	48,202	48,006	48,177	1,223
7	11,20	52,266	52,305	52,228	52,294	52,172	52,278	52,079	52,252	1,222
8	10,60	56,941	56,982	56,900	56,970	56,839	56,952	56,737	56,924	1,311
9	10,60	61,238	61,280	61,197	61,268	61,135	61,250	61,032	61,221	1,315
10	10,60	67,088	67,131	67,045	67,118	66,980	67,099	66,872	67,069	1,356
11	10,00	69,972	70,016	69,927	70,003	69,860	69,982	69,748	69,951	1,395
12	10,00	75,630	75,675	75,583	75,661	75,514	75,640	75,398	75,607	1,426
13	10,00	80,151	80,196	80,104	80,182	80,034	80,160	79,916	80,126	1,431
14	10,00	85,698	85,745	85,650	85,729	85,578	85,707	85,458	85,672	1,454
15	10,00	90,285	90,331	90,236	90,316	90,163	90,293	90,041	90,258	1,459
16	10,00	95,753	95,800	95,704	95,784	95,629	95,761	95,505	95,724	1,478
17	10,00	100,390	100,437	100,340	100,420	100,264	100,397	100,138	100,359	1,482
18	10,00	105,799	105,846	105,748	105,829	105,671	105,805	105,543	105,767	1,497
19	10,00	110,474	110,522	110,423	110,504	110,345	110,480	110,216	110,441	1,501
20	10,00	115,837	115,885	115,784	115,867	115,706	115,841	115,574	115,802	1,514
21	9,50	119,164	119,213	119,111	119,195	119,030	119,168	118,895	119,127	1,544
22	9,50	124,483	124,532	124,429	124,514	124,347	124,487	124,210	124,445	1,555
23	9,50	129,214	129,263	129,159	129,244	129,077	129,217	128,939	129,175	1,557
24	9,50	134,504	134,553	134,448	134,534	134,365	134,506	134,225	134,463	1,566
25	9,50	139,257	139,306	139,201	139,286	139,116	139,258	138,976	139,214	1,568
26	9,50	144,522	144,571	144,465	144,551	144,380	144,522	144,238	144,478	1,576
27	9,50	149,293	149,342	149,236	149,322	149,150	149,292	149,007	149,247	1,578
28	9,50	154,537	154,586	154,479	154,566	154,393	154,536	154,248	154,490	1,585
29	9,50	159,324	159,373	159,266	159,352	159,179	159,322	159,033	159,276	1,587
30	9,50	164,551	164,600	164,492	164,579	164,404	164,548	164,257	164,501	1,593
31	9,50	169,351	169,401	169,292	169,379	169,204	169,348	169,056	169,301	1,595
32	9,50	174,563	174,612	174,503	174,590	174,414	174,559	174,265	174,511	1,601
33	9,50	179,375	179,425	179,316	179,403	179,226	179,371	179,076	179,322	1,602
34	9,50	184,573	184,623	184,513	184,600	184,423	184,568	184,272	184,519	1,607
35	9,50	189,397	189,446	189,336	189,424	189,245	189,391	189,093	189,341	1,608
36	9,50	194,583	194,632	194,522	194,609	194,430	194,576	194,277	194,526	1,613
37	9,50	199,416	199,465	199,355	199,442	199,263	199,409	199,109	199,358	1,614
38	9,50	204,591	204,641	204,530	204,617	204,437	204,584	204,282	204,532	1,618
39	9,50	209,433	209,482	209,371	209,459	209,278	209,425	209,122	209,373	1,620
40	9,50	214,599	214,649	214,537	214,625	214,443	214,590	214,286	214,538	1,623
41	9,50	219,449	219,498	219,386	219,474	219,292	219,439	219,134	219,386	1,624
42	9,50	224,606	224,656	224,543	224,631	224,448	224,596	224,290	224,542	1,628
43	9,50	229,463	229,512	229,399	229,487	229,304	229,452	229,145	229,398	1,629
44	9,50	234,613	234,662	234,549	234,637	234,453	234,601	234,293	234,546	1,632
45	9,50	239,476	239,525	239,411	239,499	239,315	239,463	239,154	239,408	1,633
46	9,50	244,619	244,668	244,554	244,642	244,457	244,606	244,295	244,550	1,636
47	9,50	249,487	249,536	249,422	249,510	249,325	249,474	249,163	249,418	1,637
48	9,50	254,624	254,673	254,559	254,647	254,461	254,610	254,298	254,553	1,639
49	9,50	259,498	259,547	259,432	259,521	259,334	259,483	259,170	259,426	1,640
50	9,50	264,629	264,678	264,563	264,651	264,464	264,614	264,300	264,556	1,643
51	9,50	269,508	269,557	269,442	269,530	269,343	269,492	269,177	269,434	1,643
52	9,50	274,633	274,682	274,567	274,655	274,467	274,617	274,301	274,558	1,646
53	9,50	279,517	279,566	279,450	279,538	279,350	279,500	279,183	279,441	1,646
54	9,50	284,638	284,686	284,571	284,659	284,470	284,620	284,302	284,560	1,648
55	9,50	289,525	289,574	289,458	289,546	289,357	289,507	289,189	289,447	1,649
56	9,50	294,641	294,690	294,574	294,662	294,473	294,623	294,304	294,562	1,651
57	9,50	299,533	299,582	299,465	299,554	299,364	299,514	299,194	299,453	1,652
58	9,50	304,645	304,694	304,577	304,665	304,475	304,625	304,304	304,564	1,654
59	9,50	309,540	309,589	309,472	309,560	309,370	309,520	309,198	309,458	1,654
60	9,50	314,648	314,697	314,580	314,668	314,477	314,627	314,305	314,565	1,656
61	9,50	319,547	319,595	319,478	319,566	319,375	319,525	319,203	319,463	1,657
62	9,50	324,652	324,700	324,582	324,671	324,479	324,629	324,306	324,566	1,658
63	9,50	329,554	329,602	329,484	329,572	329,380	329,531	329,206	329,467	1,659
64	9,50	334,654	334,702	334,585	334,673	334,480	334,631	334,306	334,567	1,660
65	9,50	339,559	339,607	339,490	339,578	339,385	339,535	339,210	339,471	1,661
66	9,50	344,657	344,705	344,587	344,675	344,482	344,632	344,306	344,568	1,662
67	9,50	349,565	349,613	349,495	349,583	349,389	349,540	349,213	349,474	1,663
68	9,50	354,660	354,707	354,589	354,677	354,483	354,634	354,306	354,568	1,664
69	9,50	359,570	359,618	359,499	359,587	359,393	359,544	359,216	359,478	1,665
70	9,50	364,662	364,710	364,591	364,679	364,484	364,635	364,306	364,569	1,666
71	9,50	369,575	369,623	369,504	369,592	369,397	369,548	369,218	369,481	1,667
72	9,50	374,664	374,712	374,593	374,681	374,485	374,636	374,306	374,569	1,668
73	9,50	379,580	379,627	379,508	379,596	379,400	379,551	379,220	379,483	1,668
74	9,50	384,666	384,714	384,594	384,682	384,486	384,637	384,306	384,569	1,669
75	9,50	389,584	389,631	389,512	389,599	389,403	389,554	389,222	389,486	1,670
76	9,50	394,668	394,715	394,596	394,684	394,487	394,638	394,305	394,569	1,671
77	9,50	399,588	399,635	399,515	399,603	399,406	399,557	399,224	399,488	1,671
78	9,50	404,670	404,717	404,597	404,685	404,488	404,639	404,305	404,569	1,672
79	9,50	409,592	409,639	409,519	409,606	409,409	409,560	409,226	409,490	1,673
80	9,50	414,672	414,719	414,598	414,686	414,488	414,640	414,304	414,569	1,674
81	9,50	419,596	419,642	419,522	419,609	419,411	419,563	419,227	419,492	1,674
82	9,50	424,673	424,720	424,600	424,687	424,489	424,640	424,304	424,569	1,675
83	9,50	429,599	429,646	429,525	429,612	429,414	429,565	429,228	429,493	1,675
84	9,50	434,675	434,722	434,601	434,688	434,489	434,641	434,303	434,569	1,676
85	9,50	439,602	439,649	439,528	439,615	439,416	439,567	439,230	439,495	1,677
86	9,50	444,676	444,723	444,602	444,689	444,490	444,641	444,303	444,568	1,678
87	9,50	449,605	449,652	449,530	449,618	449,418	449,570	449,231	449,496	1,678
88	9,50	454,678	454,724	454,603	454,690	454,490	454,641	454,302	454,568	1,679
89	9,50	459,608	459,655	459,533	459,620	459,420	459,571	459,231	459,497	1,679
90	9,50	464,679	464,725	464,604	464,691	464,490	464,642	464,301	464,567	1,680
91	9,50	469,611	469,657	469,535	469,622	469,422	469,573	469,232	469,499	1,680
92	9,50	474,680	474,726	474,604	474,691	474,490	474,642	474,300	474,567	1,681
93	9,50	479,614	479,660	479,538	479,625	479,423	479,575	479,233	479,499	1,681
94	9,50	484,681	484,727	484,605	484,692	484,491	484,642	484,299	484,566	1,682
95	9,50	489,616	489,662	489,540	489,627	489,425	489,576	489,233	489,500	1,682
96	9,50	494,682	494,728	494,606	494,693	494,491	494,642	494,299	494,566	1,683
97	9,50	499,619	499,664	499,542	499,629	499,426	499,578	499,234	499,501	1,683
98	9,50	504,683	504,729	504,606	504,693	504,491	504,642	504,298	504,565	1,684
99	9,50	509,621	509,666	509,544	509,630	509,428	509,579	509,234	509,502	1,684
100	9,50	514,684	514,730	514,607	514,694	514,491	514,642	514,297	514,564	1,685

5.12 30° pressure angle, module 6

Table 45 — Geometry internal spline, $\alpha = 30°$, $m = 6$, flat and fillet root, $E_{v\,min} = 9{,}425$

z	D	D_b	$D_{ei\,max}$ Fillet root	$D_{ei\,max}$ Flat	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
							4H	5H	6H	7H
6	36,00	31,1769	47,17	45,37	43,20	32,58	9,479	9,511	9,559	9,639
7	42,00	36,3731	53,18	51,38	49,20	38,17	9,479	9,512	9,561	9,643
8	48,00	41,5692	59,18	57,38	55,20	43,86	9,480	9,513	9,563	9,646
9	54,00	46,7654	65,19	63,39	61,20	49,63	9,481	9,515	9,565	9,649
10	60,00	51,9615	71,19	69,39	67,20	55,45	9,482	9,516	9,567	9,651
11	66,00	57,1577	77,20	75,40	73,20	61,31	9,482	9,517	9,568	9,654
12	72,00	62,3538	83,20	81,40	79,20	67,19	9,483	9,518	9,570	9,656
13	78,00	67,5500	89,20	87,40	85,20	73,09	9,483	9,518	9,571	9,659
14	84,00	72,7461	95,21	93,41	91,20	79,01	9,484	9,519	9,572	9,661
15	90,00	77,9423	101,21	99,41	97,20	84,93	9,484	9,520	9,574	9,663
16	96,00	83,1384	107,22	105,42	103,20	90,87	9,485	9,521	9,575	9,665
17	102,00	88,3346	113,22	111,42	109,20	96,82	9,485	9,522	9,576	9,667
18	108,00	93,5307	119,22	117,42	115,20	102,77	9,486	9,522	9,577	9,669
19	114,00	98,7269	125,23	123,43	121,20	108,73	9,486	9,523	9,578	9,670
20	120,00	103,9230	131,23	129,43	127,20	114,69	9,487	9,524	9,579	9,672
21	126,00	109,1192	137,23	135,43	133,20	120,65	9,487	9,525	9,581	9,674
22	132,00	114,3154	143,23	141,43	139,20	126,62	9,488	9,525	9,582	9,676
23	138,00	119,5115	149,24	147,44	145,20	132,59	9,488	9,526	9,583	9,677
24	144,00	124,7077	155,24	153,44	151,20	138,57	9,488	9,526	9,584	9,679
25	150,00	129,9038	161,24	159,44	157,20	144,54	9,489	9,527	9,585	9,680
26	156,00	135,1000	167,24	165,44	163,20	150,52	9,489	9,528	9,585	9,682
27	162,00	140,2961	173,25	171,45	169,20	156,50	9,490	9,528	9,586	9,683
28	168,00	145,4923	179,25	177,45	175,20	162,48	9,490	9,529	9,587	9,685
29	174,00	150,6884	185,25	183,45	181,20	168,47	9,490	9,529	9,588	9,686
30	180,00	155,8846	191,25	189,45	187,20	174,45	9,491	9,530	9,589	9,687
31	186,00	161,0807	197,26	195,46	193,20	180,43	9,491	9,531	9,590	9,689
32	192,00	166,2769	203,26	201,46	199,20	186,42	9,491	9,531	9,591	9,690
33	198,00	171,4730	209,26	207,46	205,20	192,41	9,492	9,532	9,592	9,691
34	204,00	176,6692	215,26	213,46	211,20	198,39	9,492	9,532	9,592	9,693
35	210,00	181,8653	221,27	219,47	217,20	204,38	9,492	9,533	9,593	9,694
36	216,00	187,0615	227,27	225,47	223,20	210,37	9,493	9,533	9,594	9,695
37	222,00	192,2576	233,27	231,47	229,20	216,36	9,493	9,534	9,595	9,696
38	228,00	197,4538	239,27	237,47	235,20	222,35	9,493	9,534	9,595	9,698
39	234,00	202,6499	245,27	243,47	241,20	228,34	9,493	9,535	9,596	9,699
40	240,00	207,8461	251,28	249,48	247,20	234,33	9,494	9,535	9,597	9,700
41	246,00	213,0422	257,28	255,48	253,20	240,33	9,494	9,535	9,598	9,701
42	252,00	218,2384	263,28	261,48	259,20	246,32	9,494	9,536	9,598	9,702
43	258,00	223,4346	269,28	267,48	265,20	252,31	9,495	9,536	9,599	9,704
44	264,00	228,6307	275,28	273,48	271,20	258,30	9,495	9,537	9,600	9,705
45	270,00	233,8269	281,29	279,49	277,20	264,30	9,495	9,537	9,600	9,706
46	276,00	239,0230	287,29	285,49	283,20	270,29	9,495	9,538	9,601	9,707
47	282,00	244,2192	293,29	291,49	289,20	276,28	9,496	9,538	9,602	9,708
48	288,00	249,4153	299,29	297,49	295,20	282,28	9,496	9,539	9,602	9,709
49	294,00	254,6115	305,29	303,49	301,20	288,27	9,496	9,539	9,603	9,710
50	300,00	259,8076	311,30	309,50	307,20	294,27	9,497	9,539	9,604	9,711
51	306,00	265,0038	317,30	315,50	313,20	300,26	9,497	9,540	9,604	9,712
52	312,00	270,1999	323,30	321,50	319,20	306,26	9,497	9,540	9,605	9,713
53	318,00	275,3961	329,30	327,50	325,20	312,25	9,497	9,541	9,606	9,714
54	324,00	280,5922	335,30	333,50	331,20	318,25	9,498	9,541	9,606	9,715
55	330,00	285,7884	341,30	339,50	337,20	324,24	9,498	9,541	9,607	9,716
56	336,00	290,9845	347,31	345,51	343,20	330,24	9,498	9,542	9,608	9,717
57	342,00	296,1807	353,31	351,51	349,20	336,23	9,498	9,542	9,608	9,718
58	348,00	301,3768	359,31	357,51	355,20	342,23	9,499	9,543	9,609	9,719
59	354,00	306,5730	365,31	363,51	361,20	348,22	9,499	9,543	9,609	9,720
60	360,00	311,7691	371,31	369,51	367,20	354,22	9,499	9,543	9,610	9,721
61	366,00	316,9653	377,31	375,51	373,20	360,22	9,499	9,544	9,611	9,722
62	372,00	322,1615	383,32	381,52	379,20	366,21	9,499	9,544	9,611	9,723
63	378,00	327,3576	389,32	387,52	385,20	372,21	9,500	9,545	9,612	9,724
64	384,00	332,5538	395,32	393,52	391,20	378,21	9,500	9,545	9,612	9,725
65	390,00	337,7499	401,32	399,52	397,20	384,20	9,500	9,545	9,613	9,726
66	396,00	342,9461	407,32	405,52	403,20	390,20	9,500	9,546	9,614	9,727
67	402,00	348,1422	413,32	411,52	409,20	396,20	9,501	9,546	9,614	9,728
68	408,00	353,3384	419,33	417,53	415,20	402,19	9,501	9,546	9,615	9,728
69	414,00	358,5345	425,33	423,53	421,20	408,19	9,501	9,547	9,615	9,729
70	420,00	363,7307	431,33	429,53	427,20	414,19	9,501	9,547	9,616	9,730
71	426,00	368,9268	437,33	435,53	433,20	420,19	9,502	9,547	9,616	9,731
72	432,00	374,1230	443,33	441,53	439,20	426,18	9,502	9,548	9,617	9,732
73	438,00	379,3191	449,33	447,53	445,20	432,18	9,502	9,548	9,617	9,733
74	444,00	384,5153	455,33	453,53	451,20	438,18	9,502	9,548	9,618	9,734
75	450,00	389,7114	461,34	459,54	457,20	444,18	9,502	9,549	9,618	9,735
76	456,00	394,9076	467,34	465,54	463,20	450,17	9,503	9,549	9,619	9,735
77	462,00	400,1037	473,34	471,54	469,20	456,17	9,503	9,549	9,620	9,736
78	468,00	405,2999	479,34	477,54	475,20	462,17	9,503	9,550	9,620	9,737
79	474,00	410,4960	485,34	483,54	481,20	468,17	9,503	9,550	9,621	9,738
80	480,00	415,6922	491,34	489,54	487,20	474,16	9,503	9,550	9,621	9,739
81	486,00	420,8883	497,34	495,54	493,20	480,16	9,504	9,551	9,622	9,740
82	492,00	426,0845	503,35	501,55	499,20	486,16	9,504	9,551	9,622	9,740
83	498,00	431,2807	509,35	507,55	505,20	492,16	9,504	9,551	9,623	9,741
84	504,00	436,4768	515,35	513,55	511,20	498,16	9,505	9,552	9,624	9,743
85	510,00	441,6730	521,35	519,55	517,20	504,15	9,505	9,553	9,624	9,744
86	516,00	446,8691	527,35	525,55	523,20	510,15	9,505	9,553	9,625	9,745
87	522,00	452,0653	533,36	531,56	529,20	516,15	9,505	9,553	9,626	9,746
88	528,00	457,2614	539,36	537,56	535,20	522,15	9,506	9,554	9,626	9,747
89	534,00	462,4576	545,36	543,56	541,20	528,15	9,506	9,554	9,627	9,748
90	540,00	467,6537	551,36	549,56	547,20	534,15	9,506	9,555	9,627	9,749
91	546,00	472,8499	557,36	555,56	553,20	540,14	9,506	9,555	9,628	9,750
92	552,00	478,0460	563,36	561,56	559,20	546,14	9,506	9,555	9,629	9,751
93	558,00	483,2422	569,37	567,57	565,20	552,14	9,507	9,556	9,629	9,752
94	564,00	488,4383	575,37	573,57	571,20	558,14	9,507	9,556	9,630	9,753
95	570,00	493,6345	581,37	579,57	577,20	564,14	9,507	9,557	9,630	9,754
96	576,00	498,8306	587,37	585,57	583,20	570,14	9,507	9,557	9,631	9,755
97	582,00	504,0268	593,37	591,57	589,20	576,14	9,508	9,557	9,632	9,756
98	588,00	509,2229	599,37	597,57	595,20	582,13	9,508	9,558	9,632	9,757
99	594,00	514,4191	605,38	603,58	601,20	588,13	9,508	9,558	9,633	9,758
100	600,00	519,6152	611,38	609,58	607,20	594,13	9,508	9,558	9,633	9,759

Table 46 — Geometry external spline, $\alpha = 30°$, $m = 6$, flat and fillet root, $S_{v\,max} = 9{,}425$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$ Fillet root	$D_{ie\,min}$ Flat	S_{min}			
							4h	5h	6h	7h
6	36,00	31,1769	42,00	31,38	24,83	26,63	9,371	9,339	9,291	9,211
7	42,00	36,3731	48,00	36,97	30,82	32,62	9,371	9,338	9,289	9,207
8	48,00	41,5692	54,00	42,66	36,82	38,62	9,370	9,337	9,287	9,204
9	54,00	46,7654	60,00	48,43	42,81	44,61	9,369	9,335	9,285	9,201
10	60,00	51,9615	66,00	54,25	48,81	50,61	9,368	9,334	9,283	9,199
11	66,00	57,1577	72,00	60,11	54,80	56,60	9,368	9,333	9,282	9,196
12	72,00	62,3538	78,00	65,99	60,80	62,60	9,367	9,332	9,280	9,194
13	78,00	67,5500	84,00	71,89	66,80	68,60	9,367	9,332	9,279	9,191
14	84,00	72,7461	90,00	77,81	72,79	74,59	9,366	9,331	9,278	9,189
15	90,00	77,9423	96,00	83,73	78,79	80,59	9,366	9,330	9,276	9,187
16	96,00	83,1384	102,00	89,67	84,78	86,58	9,365	9,329	9,275	9,185
17	102,00	88,3346	108,00	95,62	90,78	92,58	9,365	9,328	9,274	9,183
18	108,00	93,5307	114,00	101,57	96,78	98,58	9,364	9,328	9,273	9,181
19	114,00	98,7269	120,00	107,53	102,77	104,57	9,364	9,327	9,272	9,180
20	120,00	103,9230	126,00	113,49	108,77	110,57	9,363	9,326	9,271	9,178
21	126,00	109,1192	132,00	119,45	114,77	116,57	9,363	9,325	9,269	9,176
22	132,00	114,3154	138,00	125,42	120,77	122,57	9,362	9,325	9,268	9,174
23	138,00	119,5115	144,00	131,39	126,76	128,56	9,362	9,324	9,267	9,173
24	144,00	124,7077	150,00	137,37	132,76	134,56	9,362	9,324	9,266	9,171
25	150,00	129,9038	156,00	143,34	138,76	140,56	9,361	9,323	9,265	9,170
26	156,00	135,1000	162,00	149,32	144,76	146,56	9,361	9,322	9,265	9,168
27	162,00	140,2961	168,00	155,30	150,75	152,55	9,360	9,322	9,264	9,167
28	168,00	145,4923	174,00	161,28	156,75	158,55	9,360	9,321	9,263	9,165
29	174,00	150,6884	180,00	167,27	162,75	164,55	9,360	9,321	9,262	9,164
30	180,00	155,8846	186,00	173,25	168,75	170,55	9,359	9,320	9,261	9,163
31	186,00	161,0807	192,00	179,23	174,74	176,54	9,359	9,319	9,260	9,161
32	192,00	166,2769	198,00	185,22	180,74	182,54	9,359	9,319	9,259	9,160
33	198,00	171,4730	204,00	191,21	186,74	188,54	9,358	9,318	9,258	9,159
34	204,00	176,6692	210,00	197,19	192,74	194,54	9,358	9,318	9,258	9,157
35	210,00	181,8653	216,00	203,18	198,73	200,53	9,358	9,317	9,257	9,156
36	216,00	187,0615	222,00	209,17	204,73	206,53	9,357	9,317	9,256	9,155
37	222,00	192,2576	228,00	215,16	210,73	212,53	9,357	9,316	9,255	9,154
38	228,00	197,4538	234,00	221,15	216,73	218,53	9,357	9,316	9,255	9,152
39	234,00	202,6499	240,00	227,14	222,73	224,53	9,357	9,315	9,254	9,151
40	240,00	207,8461	246,00	233,13	228,72	230,52	9,356	9,315	9,253	9,150
41	246,00	213,0422	252,00	239,13	234,72	236,52	9,356	9,315	9,252	9,149
42	252,00	218,2384	258,00	245,12	240,72	242,52	9,356	9,314	9,252	9,148
43	258,00	223,4346	264,00	251,11	246,72	248,52	9,355	9,314	9,251	9,146
44	264,00	228,6307	270,00	257,10	252,72	254,52	9,355	9,313	9,250	9,145
45	270,00	233,8269	276,00	263,10	258,71	260,51	9,355	9,313	9,250	9,144
46	276,00	239,0230	282,00	269,09	264,71	266,51	9,355	9,312	9,249	9,143
47	282,00	244,2192	288,00	275,08	270,71	272,51	9,354	9,312	9,248	9,142
48	288,00	249,4153	294,00	281,08	276,71	278,51	9,354	9,311	9,248	9,141
49	294,00	254,6115	300,00	287,07	282,71	284,51	9,354	9,311	9,247	9,140
50	300,00	259,8076	306,00	293,07	288,70	290,50	9,353	9,311	9,246	9,139
51	306,00	265,0038	312,00	299,06	294,70	296,50	9,353	9,310	9,246	9,138
52	312,00	270,1999	318,00	305,06	300,70	302,50	9,353	9,310	9,245	9,137
53	318,00	275,3961	324,00	311,05	306,70	308,50	9,353	9,309	9,244	9,136
54	324,00	280,5922	330,00	317,05	312,70	314,50	9,352	9,309	9,244	9,135
55	330,00	285,7884	336,00	323,04	318,70	320,50	9,352	9,309	9,243	9,134
56	336,00	290,9845	342,00	329,04	324,69	326,49	9,352	9,308	9,242	9,133
57	342,00	296,1807	348,00	335,03	330,69	332,49	9,352	9,308	9,242	9,132
58	348,00	301,3768	354,00	341,03	336,69	338,49	9,351	9,307	9,241	9,131
59	354,00	306,5730	360,00	347,02	342,69	344,49	9,351	9,307	9,241	9,130
60	360,00	311,7691	366,00	353,02	348,69	350,49	9,351	9,307	9,240	9,129
61	366,00	316,9653	372,00	359,02	354,69	356,49	9,351	9,306	9,239	9,128
62	372,00	322,1615	378,00	365,01	360,68	362,48	9,351	9,306	9,239	9,127
63	378,00	327,3576	384,00	371,01	366,68	368,48	9,350	9,305	9,238	9,126
64	384,00	332,5538	390,00	377,01	372,68	374,48	9,350	9,305	9,238	9,125
65	390,00	337,7499	396,00	383,00	378,68	380,48	9,350	9,305	9,237	9,124
66	396,00	342,9461	402,00	389,00	384,68	386,48	9,350	9,304	9,236	9,123
67	402,00	348,1422	408,00	395,00	390,68	392,48	9,349	9,304	9,236	9,122
68	408,00	353,3384	414,00	400,99	396,67	398,47	9,349	9,304	9,235	9,122
69	414,00	358,5345	420,00	406,99	402,67	404,47	9,349	9,303	9,235	9,121
70	420,00	363,7307	426,00	412,99	408,67	410,47	9,349	9,303	9,234	9,120
71	426,00	368,9268	432,00	418,99	414,67	416,47	9,348	9,303	9,234	9,119
72	432,00	374,1230	438,00	424,98	420,67	422,47	9,348	9,302	9,233	9,118
73	438,00	379,3191	444,00	430,98	426,67	428,47	9,348	9,302	9,233	9,117
74	444,00	384,5153	450,00	436,98	432,67	434,47	9,348	9,302	9,232	9,116
75	450,00	389,7114	456,00	442,98	438,66	440,46	9,348	9,301	9,232	9,115
76	456,00	394,9076	462,00	448,97	444,66	446,46	9,347	9,301	9,231	9,115
77	462,00	400,1037	468,00	454,97	450,66	452,46	9,347	9,301	9,230	9,114
78	468,00	405,2999	474,00	460,97	456,66	458,46	9,347	9,300	9,230	9,113
79	474,00	410,4960	480,00	466,97	462,66	464,46	9,347	9,300	9,229	9,112
80	480,00	415,6922	486,00	472,96	468,66	470,46	9,347	9,300	9,229	9,111
81	486,00	420,8883	492,00	478,96	474,66	476,46	9,346	9,299	9,228	9,110
82	492,00	426,0845	498,00	484,96	480,65	482,45	9,346	9,299	9,228	9,110
83	498,00	431,2807	504,00	490,96	486,65	488,45	9,346	9,299	9,227	9,109
84	504,00	436,4768	510,00	496,96	492,65	494,45	9,345	9,298	9,226	9,107
85	510,00	441,6730	516,00	502,95	498,65	500,45	9,345	9,297	9,226	9,106
86	516,00	446,8691	522,00	508,95	504,65	506,45	9,345	9,297	9,225	9,105
87	522,00	452,0653	528,00	514,95	510,64	512,44	9,345	9,297	9,224	9,104
88	528,00	457,2614	534,00	520,95	516,64	518,44	9,344	9,296	9,224	9,103
89	534,00	462,4576	540,00	526,95	522,64	524,44	9,344	9,296	9,223	9,102
90	540,00	467,6537	546,00	532,95	528,64	530,44	9,344	9,295	9,223	9,101
91	546,00	472,8499	552,00	538,94	534,64	536,44	9,344	9,295	9,222	9,100
92	552,00	478,0460	558,00	544,94	540,64	542,44	9,344	9,295	9,221	9,099
93	558,00	483,2422	564,00	550,94	546,63	548,43	9,343	9,294	9,221	9,098
94	564,00	488,4383	570,00	556,94	552,63	554,43	9,343	9,294	9,220	9,097
95	570,00	493,6345	576,00	562,94	558,63	560,43	9,343	9,293	9,220	9,096
96	576,00	498,8306	582,00	568,94	564,63	566,43	9,343	9,293	9,219	9,095
97	582,00	504,0268	588,00	574,94	570,63	572,43	9,342	9,293	9,218	9,094
98	588,00	509,2229	594,00	580,93	576,63	578,43	9,342	9,292	9,218	9,093
99	594,00	514,4191	600,00	586,93	582,62	584,42	9,342	9,292	9,217	9,092
100	600,00	519,6152	606,00	592,93	588,62	590,42	9,342	9,292	9,217	9,091

Table 47 — Inspection dimensions internal spline, $\alpha = 30°$, $m = 6$, flat and fillet root, Ev min = 9,425

z	D_{Ri}	Measurement over balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—	—
8	10,00	33,603	33,699	33,631	33,791	33,673	33,926	33,739	34,144	2,574
9	10,00	39,005	39,089	39,030	39,171	39,068	39,292	39,126	39,490	2,330
10	10,60	43,403	43,509	43,436	43,613	43,484	43,766	43,560	44,010	2,815
11	10,60	49,013	49,105	49,042	49,196	49,085	49,331	49,151	49,551	2,524
12	10,60	55,771	55,856	55,798	55,942	55,839	56,070	55,902	56,280	2,395
13	10,60	61,346	61,426	61,373	61,508	61,411	61,630	61,472	61,831	2,274
14	10,60	67,953	68,030	67,979	68,111	68,018	68,231	68,077	68,428	2,217
15	10,60	73,552	73,626	73,578	73,705	73,615	73,822	73,674	74,014	2,148
16	10,60	80,066	80,139	80,092	80,217	80,130	80,333	80,188	80,524	2,115
17	10,60	85,696	85,767	85,722	85,844	85,759	85,958	85,817	86,146	2,071
18	10,60	92,145	92,215	92,170	92,291	92,208	92,404	92,266	92,592	2,050
19	10,60	97,804	97,873	97,830	97,948	97,867	98,061	97,925	98,247	2,018
20	10,60	104,202	104,270	104,228	104,346	104,266	104,458	104,324	104,644	2,004
21	10,60	109,888	109,955	109,914	110,030	109,952	110,142	110,010	110,327	1,980
22	10,60	116,247	116,313	116,273	116,388	116,311	116,500	116,369	116,685	1,969
23	10,60	121,956	122,021	121,982	122,096	122,020	122,207	122,079	122,392	1,951
24	10,60	128,282	128,347	128,309	128,422	128,347	128,534	128,406	128,719	1,943
25	10,60	134,012	134,076	134,038	134,150	134,077	134,262	134,136	134,447	1,928
26	10,60	140,311	140,375	140,338	140,450	140,377	140,562	140,437	140,747	1,921
27	10,60	146,059	146,122	146,086	146,197	146,125	146,308	146,185	146,493	1,909
28	10,60	152,336	152,399	152,363	152,474	152,402	152,585	152,463	152,771	1,904
29	10,60	158,099	158,161	158,126	158,236	158,166	158,348	158,227	158,534	1,894
30	10,60	164,356	164,419	164,384	164,494	164,424	164,606	164,485	164,792	1,889
31	10,60	170,133	170,195	170,161	170,270	170,201	170,382	170,263	170,569	1,881
32	10,60	176,374	176,436	176,402	176,511	176,443	176,623	176,505	176,810	1,877
33	10,60	182,164	182,225	182,192	182,300	182,233	182,413	182,295	182,600	1,870
34	11,20	186,469	186,532	186,499	186,609	186,541	186,725	186,606	186,917	1,914
35	11,20	192,276	192,338	192,305	192,415	192,348	192,531	192,413	192,723	1,905
36	11,20	198,491	198,553	198,521	198,631	198,564	198,747	198,629	198,940	1,901
37	11,20	204,307	204,368	204,337	204,446	204,380	204,562	204,446	204,755	1,893
38	11,20	210,511	210,572	210,541	210,650	210,584	210,766	210,651	210,960	1,890
39	11,20	216,335	216,396	216,366	216,474	216,409	216,590	216,476	216,784	1,883
40	11,20	222,528	222,589	222,559	222,667	222,603	222,784	222,670	222,978	1,880
41	11,20	228,360	228,420	228,391	228,498	228,435	228,615	228,503	228,810	1,874
42	11,20	234,544	234,604	234,575	234,682	234,619	234,799	234,687	234,994	1,871
43	11,20	240,383	240,443	240,414	240,521	240,459	240,638	240,527	240,833	1,866
44	11,20	246,558	246,617	246,589	246,696	246,634	246,813	246,703	247,009	1,863
45	11,20	252,404	252,463	252,435	252,541	252,481	252,659	252,550	252,855	1,859
46	11,20	258,571	258,629	258,603	258,708	258,648	258,826	258,718	259,023	1,857
47	11,20	264,423	264,481	264,455	264,560	264,500	264,678	264,570	264,875	1,852
48	11,20	270,582	270,641	270,615	270,720	270,661	270,838	270,731	271,036	1,850
49	11,20	276,440	276,498	276,472	276,577	276,519	276,696	276,590	276,894	1,847
50	11,20	282,593	282,651	282,626	282,730	282,672	282,849	282,744	283,048	1,845
51	11,20	288,456	288,513	288,489	288,593	288,536	288,712	288,607	288,911	1,841
52	11,20	294,603	294,660	294,636	294,740	294,683	294,860	294,755	295,059	1,840
53	11,20	300,470	300,528	300,504	300,608	300,551	300,727	300,624	300,927	1,836
54	11,20	306,612	306,669	306,645	306,749	306,693	306,869	306,766	307,069	1,835
55	11,20	312,484	312,541	312,518	312,621	312,566	312,742	312,639	312,942	1,832
56	11,20	318,620	318,677	318,654	318,757	318,703	318,878	318,776	319,079	1,831
57	11,20	324,497	324,553	324,531	324,634	324,580	324,755	324,654	324,956	1,828
58	11,20	330,628	330,684	330,663	330,765	330,712	330,886	330,786	331,088	1,827
59	11,20	336,509	336,565	336,543	336,646	336,592	336,767	336,667	336,969	1,824
60	11,20	342,636	342,691	342,670	342,773	342,720	342,894	342,795	343,097	1,823
61	11,20	348,520	348,575	348,555	348,657	348,604	348,779	348,680	348,982	1,821
62	11,20	354,642	354,698	354,678	354,779	354,728	354,902	354,804	355,105	1,820
63	11,20	360,530	360,585	360,565	360,667	360,616	360,790	360,692	360,994	1,818
64	11,20	366,649	366,704	366,684	366,786	366,735	366,909	366,812	367,113	1,817
65	11,20	372,540	372,595	372,576	372,677	372,627	372,800	372,704	373,005	1,815
66	11,20	378,655	378,710	378,691	378,792	378,742	378,915	378,820	379,121	1,814
67	11,20	384,549	384,604	384,585	384,686	384,637	384,810	384,715	385,016	1,812
68	11,20	390,661	390,715	390,697	390,798	390,749	390,922	390,828	391,128	1,811
69	11,20	396,558	396,612	396,594	396,695	396,646	396,819	396,725	397,026	1,809
70	11,20	402,666	402,720	402,703	402,803	402,755	402,928	402,835	403,135	1,808
71	11,20	408,566	408,620	408,603	408,703	408,656	408,828	408,735	409,035	1,807
72	11,20	414,671	414,725	414,709	414,809	414,761	414,934	414,842	415,142	1,806
73	11,20	420,574	420,628	420,611	420,711	420,664	420,836	420,745	421,045	1,804
74	11,20	426,676	426,730	426,714	426,814	426,767	426,939	426,848	427,148	1,804
75	11,20	432,581	432,635	432,619	432,719	432,673	432,844	432,754	433,054	1,802
76	11,20	438,681	438,734	438,719	438,818	438,773	438,944	438,855	439,154	1,802
77	11,20	444,588	444,641	444,626	444,726	444,681	444,852	444,763	445,062	1,800
78	11,20	450,685	450,738	450,724	450,823	450,778	450,949	450,861	451,160	1,800
79	11,20	456,595	456,648	456,634	456,733	456,688	456,859	456,771	457,071	1,798
80	11,20	462,690	462,742	462,728	462,827	462,783	462,954	462,867	463,166	1,798
81	11,20	468,602	468,654	468,640	468,739	468,696	468,866	468,779	469,078	1,796
82	11,20	474,694	474,746	474,733	474,831	474,788	474,959	474,873	475,172	1,796
83	11,20	480,608	480,660	480,647	480,745	480,703	480,873	480,787	481,086	1,795
84	11,20	486,698	486,750	486,737	486,836	486,793	486,965	486,878	487,179	1,794
85	11,20	492,614	492,666	492,653	492,752	492,709	492,881	492,795	493,096	1,793
86	11,20	498,702	498,754	498,741	498,840	498,798	498,970	498,883	499,185	1,793
87	11,20	504,619	504,672	504,659	504,758	504,716	504,888	504,802	505,104	1,791
88	11,20	510,705	510,757	510,745	510,844	510,802	510,974	510,889	511,191	1,791
89	11,20	516,625	516,677	516,665	516,764	516,722	516,894	516,809	517,111	1,790
90	11,20	522,709	522,761	522,749	522,848	522,807	522,979	522,894	523,196	1,790
91	11,20	528,630	528,682	528,670	528,769	528,728	528,900	528,816	529,119	1,789
92	11,20	534,712	534,764	534,753	534,852	534,811	534,983	534,899	535,202	1,788
93	11,20	540,635	540,687	540,676	540,775	540,734	540,906	540,822	541,126	1,787
94	11,20	546,715	546,767	546,756	546,855	546,815	546,987	546,904	547,207	1,787
95	11,20	552,640	552,692	552,681	552,780	552,740	552,912	552,829	553,133	1,786
96	11,20	558,718	558,770	558,760	558,859	558,819	558,991	558,908	559,212	1,786
97	11,20	564,644	564,696	564,686	564,785	564,745	564,918	564,835	565,139	1,785
98	11,20	570,721	570,773	570,763	570,862	570,823	570,996	570,913	571,218	1,784
99	11,20	576,649	576,701	576,691	576,790	576,751	576,924	576,841	577,146	1,784
100	11,20	582,724	582,776	582,766	582,865	582,826	583,000	582,917	583,223	1,783

Table 48 — Inspection dimensions external spline, $\alpha = 30°$, $m = 6$, flat or fillet root, $S_{v\,max} = 9{,}425$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	13,20	57,258	57,299	57,218	57,288	57,159	57,270	57,060	57,243	1,231
7	13,20	62,149	62,191	62,109	62,179	62,049	62,161	61,949	62,133	1,230
8	12,50	67,785	67,830	67,742	67,817	67,676	67,797	67,567	67,767	1,320
9	12,50	72,942	72,987	72,898	72,973	72,831	72,953	72,720	72,922	1,324
10	12,50	79,951	79,997	79,905	79,983	79,836	79,962	79,720	79,929	1,365
11	12,50	85,270	85,316	85,223	85,302	85,153	85,280	85,035	85,246	1,370
12	12,50	92,077	92,125	92,029	92,109	91,956	92,087	91,835	92,052	1,401
13	11,80	95,662	95,710	95,612	95,694	95,536	95,671	95,410	95,634	1,439
14	11,80	102,314	102,363	102,262	102,346	102,185	102,322	102,056	102,284	1,463
15	11,80	107,817	107,866	107,765	107,849	107,687	107,824	107,556	107,786	1,467
16	11,80	114,375	114,425	114,322	114,407	114,242	114,381	114,108	114,342	1,486
17	11,80	119,938	119,988	119,884	119,970	119,803	119,944	119,668	119,903	1,490
18	11,80	126,425	126,475	126,370	126,457	126,288	126,430	126,151	126,388	1,505
19	11,80	132,035	132,085	131,980	132,066	131,897	132,039	131,758	131,997	1,509
20	11,80	138,467	138,518	138,411	138,498	138,326	138,470	138,186	138,427	1,522
21	11,80	144,114	144,165	144,058	144,145	143,973	144,117	143,830	144,073	1,525
22	11,80	150,503	150,553	150,445	150,533	150,359	150,504	150,215	150,459	1,536
23	11,80	156,181	156,232	156,123	156,211	156,036	156,182	155,891	156,136	1,539
24	11,80	162,533	162,584	162,474	162,563	162,386	162,533	162,239	162,487	1,548
25	11,80	168,237	168,288	168,178	168,267	168,089	168,237	167,941	168,190	1,551
26	11,80	174,559	174,611	174,500	174,589	174,410	174,558	174,260	174,510	1,559
27	11,80	180,286	180,337	180,226	180,315	180,135	180,284	179,984	180,235	1,562
28	11,80	186,583	186,634	186,522	186,612	186,430	186,580	186,278	186,530	1,569
29	11,80	192,328	192,379	192,267	192,357	192,175	192,324	192,021	192,274	1,571
30	11,80	198,603	198,654	198,541	198,631	198,448	198,598	198,293	198,548	1,578
31	11,80	204,365	204,416	204,303	204,393	204,209	204,360	204,053	204,308	1,580
32	11,80	210,621	210,672	210,558	210,649	210,464	210,615	210,306	210,563	1,585
33	11,20	214,695	214,747	214,631	214,722	214,534	214,688	214,374	214,635	1,608
34	11,20	220,931	220,983	220,866	220,959	220,770	220,923	220,608	220,869	1,613
35	11,20	226,719	226,771	226,654	226,746	226,557	226,711	226,394	226,656	1,614
36	11,20	232,941	232,993	232,876	232,968	232,778	232,932	232,614	232,877	1,619
37	11,20	238,741	238,793	238,675	238,767	238,576	238,731	238,412	238,675	1,620
38	11,20	244,950	245,002	244,884	244,977	244,785	244,940	244,619	244,883	1,624
39	11,20	250,760	250,812	250,694	250,786	250,594	250,749	250,427	250,692	1,625
40	11,20	256,959	257,011	256,892	256,984	256,791	256,947	256,623	256,889	1,629
41	11,20	262,778	262,830	262,711	262,803	262,610	262,765	262,441	262,707	1,630
42	11,20	268,966	269,018	268,899	268,991	268,797	268,953	268,627	268,894	1,633
43	11,20	274,794	274,845	274,726	274,818	274,624	274,780	274,453	274,720	1,634
44	11,20	280,973	281,025	280,905	280,997	280,802	280,958	280,630	280,898	1,637
45	11,20	286,808	286,860	286,740	286,832	286,636	286,793	286,464	286,732	1,638
46	11,20	292,979	293,031	292,910	293,003	292,806	292,963	292,633	292,902	1,641
47	11,20	298,822	298,873	298,752	298,845	298,648	298,805	298,474	298,743	1,641
48	11,20	304,985	305,037	304,915	305,008	304,811	304,967	304,636	304,905	1,644
49	11,20	310,834	310,885	310,764	310,856	310,658	310,815	310,483	310,753	1,645
50	11,20	316,990	317,042	316,920	317,013	316,814	316,971	316,638	316,908	1,647
51	11,20	322,845	322,896	322,774	322,867	322,668	322,825	322,491	322,762	1,648
52	11,20	328,995	329,046	328,924	329,017	328,817	328,975	328,639	328,911	1,650
53	11,20	334,855	334,906	334,784	334,877	334,677	334,834	334,498	334,769	1,651
54	11,20	341,000	341,051	340,928	341,021	340,820	340,978	340,641	340,913	1,653
55	11,20	346,865	346,916	346,793	346,886	346,685	346,842	346,504	346,777	1,653
56	11,20	353,004	353,055	352,932	353,024	352,823	352,981	352,642	352,914	1,655
57	11,20	358,874	358,924	358,801	358,894	358,692	358,850	358,510	358,783	1,656
58	11,20	365,008	365,058	364,935	365,027	364,825	364,983	364,643	364,916	1,658
59	11,20	370,882	370,933	370,809	370,901	370,699	370,857	370,515	370,789	1,658
60	11,20	377,011	377,062	376,938	377,030	376,827	376,985	376,643	376,917	1,660
61	11,20	382,890	382,940	382,816	382,908	382,705	382,863	382,520	382,794	1,661
62	11,20	389,015	389,065	388,940	389,033	388,829	388,988	388,644	388,918	1,662
63	11,20	394,897	394,947	394,822	394,915	394,711	394,869	394,525	394,799	1,663
64	11,20	401,018	401,068	400,943	401,035	400,831	400,989	400,644	400,919	1,664
65	11,20	406,904	406,954	406,829	406,921	406,716	406,875	406,529	406,804	1,665
66	11,20	413,021	413,071	412,945	413,038	412,832	412,991	412,644	412,920	1,666
67	11,20	418,910	418,960	418,834	418,927	418,721	418,880	418,532	418,808	1,666
68	11,20	425,023	425,073	424,947	425,040	424,834	424,992	424,644	424,920	1,668
69	11,20	430,916	430,965	430,840	430,932	430,726	430,884	430,535	430,812	1,668
70	11,20	437,026	437,075	436,949	437,042	436,835	436,994	436,644	436,921	1,670
71	11,20	442,921	442,971	442,845	442,937	442,730	442,889	442,538	442,815	1,670
72	11,20	449,028	449,078	448,951	449,043	448,836	448,995	448,644	448,921	1,671
73	11,20	454,926	454,976	454,849	454,941	454,734	454,893	454,541	454,818	1,672
74	11,20	461,030	461,080	460,953	461,045	460,837	460,996	460,643	460,921	1,673
75	11,20	466,931	466,981	466,854	466,946	466,737	466,896	466,543	466,821	1,673
76	11,20	473,032	473,081	472,954	473,046	472,838	472,997	472,643	472,921	1,674
77	11,20	478,936	478,985	478,858	478,950	478,741	478,900	478,546	478,823	1,675
78	11,20	485,034	485,083	484,956	485,048	484,838	484,997	484,642	484,921	1,676
79	11,20	490,940	490,989	490,862	490,954	490,744	490,903	490,547	490,826	1,676
80	11,20	497,036	497,085	496,957	497,049	496,839	496,998	496,642	496,921	1,677
81	11,20	502,944	502,993	502,865	502,957	502,747	502,906	502,549	502,828	1,677
82	11,20	509,038	509,086	508,959	509,050	508,840	508,999	508,641	508,920	1,678
83	11,20	514,948	514,997	514,869	514,960	514,750	514,909	514,551	514,830	1,678
84	11,20	521,039	521,088	520,959	521,051	520,839	520,999	520,638	520,920	1,679
85	11,20	526,951	527,000	526,871	526,964	526,751	526,911	526,550	526,832	1,680
86	11,20	533,040	533,089	532,960	533,052	532,839	532,999	532,637	532,919	1,681
87	11,20	538,955	539,004	538,874	538,967	538,753	538,913	538,550	538,833	1,681
88	11,20	545,041	545,090	544,960	545,053	544,839	545,000	544,636	544,919	1,682
89	11,20	550,958	551,007	550,877	550,969	550,755	550,916	550,551	550,834	1,682
90	11,20	557,043	557,092	556,961	557,054	556,839	557,000	556,634	556,918	1,683
91	11,20	562,961	563,010	562,879	562,972	562,756	562,918	562,551	562,836	1,683
92	11,20	569,044	569,093	568,962	569,054	568,838	569,000	568,633	568,917	1,684
93	11,20	574,964	575,013	574,881	574,974	574,758	574,920	574,551	574,837	1,684
94	11,20	581,045	581,094	580,962	581,055	580,838	581,000	580,631	580,917	1,685
95	11,20	586,967	587,015	586,884	586,977	586,759	586,921	586,552	586,838	1,685
96	11,20	593,046	593,095	592,963	593,056	592,838	593,000	592,629	592,916	1,686
97	11,20	598,969	599,018	598,886	598,979	598,760	598,923	598,551	598,839	1,686
98	11,20	605,047	605,096	604,963	605,056	604,837	605,000	604,628	604,915	1,687
99	11,20	610,972	611,020	610,888	610,981	610,761	610,925	610,551	610,839	1,687
100	11,20	617,047	617,096	616,963	617,057	616,837	617,000	616,626	616,914	1,687

5.13 30° pressure angle, module 8

Table 49 — Geometry internal spline, $\alpha = 30°$, $m = 8$, flat and fillet root, $E_{v\,min} = 12{,}566$

z	D	D_b	$D_{ei\,max}$ Fillet root	$D_{ei\,max}$ Flat	$D_{Fi\,min}$	$D_{Ii\,min}$	E_{max}			
							4H	5H	6H	7H
6	48,00	41,5692	62,81	60,41	57,60	43,45	12,625	12,661	12,714	12,803
7	56,00	48,4974	70,82	68,42	65,60	50,89	12,626	12,662	12,716	12,807
8	64,00	55,4256	78,82	76,42	73,60	58,48	12,627	12,664	12,718	12,810
9	72,00	62,3538	86,83	84,43	81,60	66,18	12,628	12,665	12,720	12,813
10	80,00	69,2820	94,83	92,43	89,60	73,94	12,629	12,666	12,722	12,816
11	88,00	76,2102	102,84	100,44	97,60	81,74	12,629	12,667	12,724	12,819
12	96,00	83,1384	110,84	108,44	105,60	89,59	12,630	12,668	12,726	12,822
13	104,00	90,0666	118,85	116,45	113,60	97,45	12,631	12,669	12,727	12,824
14	112,00	96,9948	126,85	124,45	121,60	105,34	12,631	12,670	12,729	12,827
15	120,00	103,9230	134,86	132,46	129,60	113,25	12,632	12,671	12,730	12,829
16	128,00	110,8513	142,86	140,46	137,60	121,16	12,632	12,672	12,732	12,831
17	136,00	117,7795	150,86	148,46	145,60	129,09	12,633	12,673	12,733	12,833
18	144,00	124,7077	158,87	156,47	153,60	137,02	12,633	12,674	12,734	12,836
19	152,00	131,6359	166,87	164,47	161,60	144,97	12,634	12,675	12,736	12,838
20	160,00	138,5641	174,87	172,47	169,60	152,92	12,634	12,675	12,737	12,840
21	168,00	145,4923	182,88	180,48	177,60	160,87	12,635	12,676	12,738	12,841
22	176,00	152,4205	190,88	188,48	185,60	168,83	12,635	12,677	12,739	12,843
23	184,00	159,3487	198,88	196,48	193,60	176,79	12,636	12,678	12,740	12,845
24	192,00	166,2769	206,89	204,49	201,60	184,76	12,636	12,678	12,742	12,847
25	200,00	173,2051	214,89	212,49	209,60	192,72	12,637	12,679	12,743	12,849
26	208,00	180,1333	222,89	220,49	217,60	200,70	12,637	12,680	12,744	12,850
27	216,00	187,0615	230,90	228,50	225,60	208,67	12,638	12,680	12,745	12,852
28	224,00	193,9897	238,90	236,50	233,60	216,64	12,638	12,681	12,746	12,854
29	232,00	200,9179	246,90	244,50	241,60	224,62	12,638	12,682	12,747	12,855
30	240,00	207,8461	254,90	252,50	249,60	232,60	12,639	12,682	12,748	12,857
31	248,00	214,7743	262,91	260,51	257,60	240,58	12,639	12,683	12,749	12,858
32	256,00	221,7025	270,91	268,51	265,60	248,56	12,639	12,684	12,750	12,860
33	264,00	228,6307	278,91	276,51	273,60	256,54	12,640	12,684	12,751	12,861
34	272,00	235,5589	286,91	284,51	281,60	264,53	12,640	12,685	12,752	12,863
35	280,00	242,4871	294,92	292,52	289,60	272,51	12,641	12,685	12,752	12,864
36	288,00	249,4153	302,92	300,52	297,60	280,50	12,641	12,686	12,753	12,866
37	296,00	256,3435	310,92	308,52	305,60	288,48	12,641	12,686	12,754	12,867
38	304,00	263,2717	318,92	316,52	313,60	296,47	12,642	12,687	12,755	12,869
39	312,00	270,1999	326,93	324,53	321,60	304,46	12,642	12,688	12,756	12,870
40	320,00	277,1281	334,93	332,53	329,60	312,45	12,642	12,688	12,757	12,871
41	328,00	284,0563	342,93	340,53	337,60	320,43	12,643	12,689	12,758	12,873
42	336,00	290,9845	350,93	348,53	345,60	328,42	12,643	12,689	12,758	12,874
43	344,00	297,9127	358,94	356,54	353,60	336,41	12,643	12,690	12,759	12,875
44	352,00	304,8409	366,94	364,54	361,60	344,40	12,644	12,690	12,760	12,877
45	360,00	311,7691	374,94	372,54	369,60	352,39	12,644	12,691	12,761	12,878
46	368,00	318,6973	382,94	380,54	377,60	360,39	12,644	12,691	12,762	12,879
47	376,00	325,6256	390,94	388,54	385,60	368,38	12,645	12,692	12,762	12,880
48	384,00	332,5538	398,95	396,55	393,60	376,37	12,645	12,692	12,763	12,882
49	392,00	339,4820	406,95	404,55	401,60	384,36	12,645	12,693	12,764	12,883
50	400,00	346,4102	414,95	412,55	409,60	392,35	12,646	12,693	12,765	12,884
51	408,00	353,3384	422,95	420,55	417,60	400,35	12,646	12,694	12,766	12,885
52	416,00	360,2666	430,95	428,55	425,60	408,34	12,646	12,694	12,766	12,886
53	424,00	367,1948	438,96	436,56	433,60	416,33	12,646	12,695	12,767	12,888
54	432,00	374,1230	446,96	444,56	441,60	424,33	12,647	12,695	12,768	12,889
55	440,00	381,0512	454,96	452,56	449,60	432,32	12,647	12,696	12,768	12,890
56	448,00	387,9794	462,96	460,56	457,60	440,32	12,647	12,696	12,769	12,891
57	456,00	394,9076	470,96	468,56	465,60	448,31	12,648	12,696	12,770	12,892
58	464,00	401,8358	478,97	476,57	473,60	456,30	12,648	12,697	12,771	12,893
59	472,00	408,7640	486,97	484,57	481,60	464,30	12,648	12,697	12,771	12,894
60	480,00	415,6922	494,97	492,57	489,60	472,29	12,648	12,698	12,772	12,896
61	488,00	422,6204	502,97	500,57	497,60	480,29	12,649	12,698	12,773	12,897
62	496,00	429,5486	510,97	508,57	505,60	488,28	12,649	12,699	12,773	12,898
63	504,00	436,4768	518,98	516,58	513,60	496,28	12,650	12,700	12,775	12,900
64	512,00	443,4050	526,98	524,58	521,60	504,28	12,650	12,700	12,776	12,901
65	520,00	450,3332	534,98	532,58	529,60	512,27	12,650	12,701	12,776	12,903
66	528,00	457,2614	542,99	540,59	537,60	520,27	12,650	12,701	12,777	12,904
67	536,00	464,1896	550,99	548,59	545,60	528,26	12,651	12,702	12,778	12,905
68	544,00	471,1178	558,99	556,59	553,60	536,26	12,651	12,702	12,779	12,906
69	552,00	478,0460	566,99	564,59	561,60	544,25	12,651	12,703	12,780	12,908
70	560,00	484,9742	574,99	572,59	569,60	552,25	12,652	12,703	12,780	12,909
71	568,00	491,9024	583,00	580,60	577,60	560,25	12,652	12,704	12,781	12,910
72	576,00	498,8306	591,00	588,60	585,60	568,24	12,652	12,704	12,782	12,912
73	584,00	505,7588	599,00	596,60	593,60	576,24	12,653	12,705	12,783	12,913
74	592,00	512,6870	607,00	604,60	601,60	584,24	12,653	12,705	12,784	12,914
75	600,00	519,6152	615,01	612,61	609,60	592,23	12,653	12,706	12,784	12,915
76	608,00	526,5434	623,01	620,61	617,60	600,23	12,654	12,706	12,785	12,917
77	616,00	533,4716	631,01	628,61	625,60	608,23	12,654	12,707	12,786	12,918
78	624,00	540,3999	639,01	636,61	633,60	616,22	12,654	12,707	12,787	12,919
79	632,00	547,3281	647,01	644,61	641,60	624,22	12,655	12,708	12,788	12,921
80	640,00	554,2563	655,02	652,62	649,60	632,22	12,655	12,708	12,788	12,922
81	648,00	561,1845	663,02	660,62	657,60	640,22	12,655	12,709	12,789	12,923
82	656,00	568,1127	671,02	668,62	665,60	648,21	12,656	12,709	12,790	12,924
83	664,00	575,0409	679,02	676,62	673,60	656,21	12,656	12,710	12,791	12,926
84	672,00	581,9691	687,03	684,63	681,60	664,21	12,656	12,710	12,792	12,927
85	680,00	588,8973	695,03	692,63	689,60	672,21	12,657	12,711	12,792	12,928
86	688,00	595,8255	703,03	700,63	697,60	680,20	12,657	12,711	12,793	12,929
87	696,00	602,7537	711,03	708,63	705,60	688,20	12,657	12,712	12,794	12,931
88	704,00	609,6819	719,03	716,63	713,60	696,20	12,658	12,712	12,795	12,932
89	712,00	616,6101	727,04	724,64	721,60	704,20	12,658	12,713	12,796	12,933
90	720,00	623,5383	735,04	732,64	729,60	712,19	12,658	12,713	12,796	12,935
91	728,00	630,4665	743,04	740,64	737,60	720,19	12,658	12,714	12,797	12,936
92	736,00	637,3947	751,04	748,64	745,60	728,19	12,659	12,714	12,798	12,937
93	744,00	644,3229	759,05	756,65	753,60	736,19	12,659	12,715	12,799	12,938
94	752,00	651,2511	767,05	764,65	761,60	744,19	12,659	12,715	12,800	12,940
95	760,00	658,1793	775,05	772,65	769,60	752,18	12,660	12,716	12,800	12,941
96	768,00	665,1075	783,05	780,65	777,60	760,18	12,660	12,717	12,801	12,942
97	776,00	672,0357	791,05	788,65	785,60	768,18	12,660	12,717	12,802	12,944
98	784,00	678,9639	799,06	796,66	793,60	776,18	12,661	12,718	12,803	12,945
99	792,00	685,8921	807,06	804,66	801,60	784,18	12,661	12,718	12,804	12,946
100	800,00	692,8203	815,06	812,66	809,60	792,17	12,661	12,719	12,804	12,947

Table 50 — Geometry external spline, $\alpha = 30°$, $m = 8$, flat and fillet root, $S_{v\,max} = 12{,}566$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$ Fillet root	$D_{ie\,min}$ Flat	S_{min}			
							4h	5h	6h	7h
6	48,00	41,5692	56,00	41,85	33,19	35,59	12,507	12,471	12,418	12,329
7	56,00	48,4974	64,00	49,29	41,18	43,58	12,506	12,470	12,416	12,325
8	64,00	55,4256	72,00	56,88	49,18	51,58	12,505	12,468	12,414	12,322
9	72,00	62,3538	80,00	64,58	57,17	59,57	12,504	12,467	12,412	12,319
10	80,00	69,2820	88,00	72,34	65,17	67,57	12,503	12,466	12,410	12,316
11	88,00	76,2102	96,00	80,14	73,16	75,56	12,503	12,465	12,408	12,313
12	96,00	83,1384	104,00	87,99	81,16	83,56	12,502	12,464	12,406	12,310
13	104,00	90,0666	112,00	95,85	89,15	91,55	12,501	12,463	12,405	12,308
14	112,00	96,9948	120,00	103,74	97,15	99,55	12,501	12,462	12,403	12,305
15	120,00	103,9230	128,00	111,65	105,14	107,54	12,500	12,461	12,402	12,303
16	128,00	110,8513	136,00	119,56	113,14	115,54	12,500	12,460	12,400	12,301
17	136,00	117,7795	144,00	127,49	121,14	123,54	12,499	12,459	12,399	12,299
18	144,00	124,7077	152,00	135,42	129,13	131,53	12,499	12,458	12,398	12,296
19	152,00	131,6359	160,00	143,37	137,13	139,53	12,498	12,457	12,396	12,294
20	160,00	138,5641	168,00	151,32	145,13	147,53	12,498	12,457	12,395	12,292
21	168,00	145,4923	176,00	159,27	153,12	155,52	12,497	12,456	12,394	12,291
22	176,00	152,4205	184,00	167,23	161,12	163,52	12,497	12,455	12,393	12,289
23	184,00	159,3487	192,00	175,19	169,12	171,52	12,496	12,454	12,392	12,287
24	192,00	166,2769	200,00	183,16	177,11	179,51	12,496	12,454	12,390	12,285
25	200,00	173,2051	208,00	191,12	185,11	187,51	12,495	12,453	12,389	12,283
26	208,00	180,1333	216,00	199,10	193,11	195,51	12,495	12,452	12,388	12,282
27	216,00	187,0615	224,00	207,07	201,10	203,50	12,494	12,452	12,387	12,280
28	224,00	193,9897	232,00	215,04	209,10	211,50	12,494	12,451	12,386	12,278
29	232,00	200,9179	240,00	223,02	217,10	219,50	12,494	12,450	12,385	12,277
30	240,00	207,8461	248,00	231,00	225,10	227,50	12,493	12,450	12,384	12,275
31	248,00	214,7743	256,00	238,98	233,09	235,49	12,493	12,449	12,383	12,274
32	256,00	221,7025	264,00	246,96	241,09	243,49	12,493	12,448	12,382	12,272
33	264,00	228,6307	272,00	254,94	249,09	251,49	12,492	12,448	12,381	12,271
34	272,00	235,5589	280,00	262,93	257,09	259,49	12,492	12,447	12,380	12,269
35	280,00	242,4871	288,00	270,91	265,08	267,48	12,491	12,447	12,380	12,268
36	288,00	249,4153	296,00	278,90	273,08	275,48	12,491	12,446	12,379	12,266
37	296,00	256,3435	304,00	286,88	281,08	283,48	12,491	12,446	12,378	12,265
38	304,00	263,2717	312,00	294,87	289,08	291,48	12,490	12,445	12,377	12,263
39	312,00	270,1999	320,00	302,86	297,07	299,47	12,490	12,444	12,376	12,262
40	320,00	277,1281	328,00	310,85	305,07	307,47	12,490	12,444	12,375	12,261
41	328,00	284,0563	336,00	318,83	313,07	315,47	12,489	12,443	12,374	12,259
42	336,00	290,9845	344,00	326,82	321,07	323,47	12,489	12,443	12,374	12,258
43	344,00	297,9127	352,00	334,81	329,06	331,46	12,489	12,442	12,373	12,257
44	352,00	304,8409	360,00	342,80	337,06	339,46	12,488	12,442	12,372	12,255
45	360,00	311,7691	368,00	350,79	345,06	347,46	12,488	12,441	12,371	12,254
46	368,00	318,6973	376,00	358,79	353,06	355,46	12,488	12,441	12,370	12,253
47	376,00	325,6256	384,00	366,78	361,06	363,46	12,487	12,440	12,370	12,252
48	384,00	332,5538	392,00	374,77	369,05	371,45	12,487	12,440	12,369	12,250
49	392,00	339,4820	400,00	382,76	377,05	379,45	12,487	12,439	12,368	12,249
50	400,00	346,4102	408,00	390,75	385,05	387,45	12,486	12,439	12,367	12,248
51	408,00	353,3384	416,00	398,75	393,05	395,45	12,486	12,438	12,366	12,247
52	416,00	360,2666	424,00	406,74	401,05	403,45	12,486	12,438	12,366	12,246
53	424,00	367,1948	432,00	414,73	409,04	411,44	12,486	12,437	12,365	12,244
54	432,00	374,1230	440,00	422,73	417,04	419,44	12,485	12,437	12,364	12,243
55	440,00	381,0512	448,00	430,72	425,04	427,44	12,485	12,436	12,364	12,242
56	448,00	387,9794	456,00	438,72	433,04	435,44	12,485	12,436	12,363	12,241
57	456,00	394,9076	464,00	446,71	441,04	443,44	12,484	12,436	12,362	12,240
58	464,00	401,8358	472,00	454,70	449,03	451,43	12,484	12,435	12,361	12,239
59	472,00	408,7640	480,00	462,70	457,03	459,43	12,484	12,435	12,361	12,238
60	480,00	415,6922	488,00	470,69	465,03	467,43	12,484	12,434	12,360	12,236
61	488,00	422,6204	496,00	478,69	473,03	475,43	12,483	12,434	12,359	12,235
62	496,00	429,5486	504,00	486,68	481,03	483,43	12,483	12,433	12,359	12,234
63	504,00	436,4768	512,00	494,68	489,02	491,42	12,482	12,432	12,357	12,232
64	512,00	443,4050	520,00	502,68	497,02	499,42	12,482	12,432	12,356	12,231
65	520,00	450,3332	528,00	510,67	505,02	507,42	12,482	12,431	12,356	12,229
66	528,00	457,2614	536,00	518,67	513,01	515,41	12,482	12,431	12,355	12,228
67	536,00	464,1896	544,00	526,66	521,01	523,41	12,481	12,430	12,354	12,227
68	544,00	471,1178	552,00	534,66	529,01	531,41	12,481	12,430	12,353	12,226
69	552,00	478,0460	560,00	542,65	537,01	539,41	12,481	12,429	12,352	12,224
70	560,00	484,9742	568,00	550,65	545,01	547,41	12,480	12,429	12,352	12,223
71	568,00	491,9024	576,00	558,65	553,00	555,40	12,480	12,428	12,351	12,222
72	576,00	498,8306	584,00	566,64	561,00	563,40	12,480	12,428	12,350	12,220
73	584,00	505,7588	592,00	574,64	569,00	571,40	12,479	12,427	12,349	12,219
74	592,00	512,6870	600,00	582,64	577,00	579,40	12,479	12,427	12,348	12,218
75	600,00	519,6152	608,00	590,63	584,99	587,39	12,479	12,426	12,348	12,217
76	608,00	526,5434	616,00	598,63	592,99	595,39	12,478	12,426	12,347	12,215
77	616,00	533,4716	624,00	606,63	600,99	603,39	12,478	12,425	12,346	12,214
78	624,00	540,3999	632,00	614,62	608,99	611,39	12,478	12,425	12,345	12,213
79	632,00	547,3281	640,00	622,62	616,99	619,39	12,477	12,424	12,344	12,211
80	640,00	554,2563	648,00	630,62	624,98	627,38	12,477	12,424	12,344	12,210
81	648,00	561,1845	656,00	638,62	632,98	635,38	12,477	12,423	12,343	12,209
82	656,00	568,1127	664,00	646,61	640,98	643,38	12,476	12,423	12,342	12,208
83	664,00	575,0409	672,00	654,61	648,98	651,38	12,476	12,422	12,341	12,206
84	672,00	581,9691	680,00	662,61	656,97	659,37	12,476	12,422	12,340	12,205
85	680,00	588,8973	688,00	670,61	664,97	667,37	12,475	12,421	12,340	12,204
86	688,00	595,8255	696,00	678,60	672,97	675,37	12,475	12,421	12,339	12,203
87	696,00	602,7537	704,00	686,60	680,97	683,37	12,475	12,420	12,338	12,201
88	704,00	609,6819	712,00	694,60	688,97	691,37	12,474	12,420	12,337	12,200
89	712,00	616,6101	720,00	702,60	696,96	699,36	12,474	12,419	12,336	12,199
90	720,00	623,5383	728,00	710,59	704,96	707,36	12,474	12,419	12,336	12,197
91	728,00	630,4665	736,00	718,59	712,96	715,36	12,474	12,418	12,335	12,196
92	736,00	637,3947	744,00	726,59	720,96	723,36	12,473	12,418	12,334	12,195
93	744,00	644,3229	752,00	734,59	728,95	731,35	12,473	12,417	12,333	12,194
94	752,00	651,2511	760,00	742,59	736,95	739,35	12,473	12,417	12,332	12,192
95	760,00	658,1793	768,00	750,58	744,95	747,35	12,472	12,416	12,332	12,191
96	768,00	665,1075	776,00	758,58	752,95	755,35	12,472	12,415	12,331	12,190
97	776,00	672,0357	784,00	766,58	760,95	763,35	12,472	12,415	12,330	12,188
98	784,00	678,9639	792,00	774,58	768,94	771,34	12,471	12,414	12,329	12,187
99	792,00	685,8921	800,00	782,58	776,94	779,34	12,471	12,414	12,328	12,186
100	800,00	692,8203	808,00	790,57	784,94	787,34	12,471	12,413	12,328	12,185

Table 51 — Inspection dimensions internal spline, $\alpha = 30°$, $m = 8$, flat or fillet root, $E_{v\,min} = 12{,}566$

z	D_{Ri}	Measurement over balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—	—
8	13,20	45,352	45,450	45,383	45,546	45,428	45,688	45,499	45,920	2,489
9	14,00	49,058	49,193	49,102	49,324	49,165	49,514	49,263	49,814	3,135
10	14,00	58,461	58,569	58,497	58,677	58,549	58,837	58,630	59,096	2,717
11	14,00	65,882	65,977	65,914	66,074	65,961	66,219	66,034	66,455	2,465
12	14,00	74,866	74,955	74,897	75,048	74,942	75,186	75,012	75,414	2,353
13	14,00	82,278	82,362	82,307	82,451	82,351	82,584	82,419	82,802	2,243
14	14,00	91,076	91,158	91,106	91,246	91,149	91,376	91,216	91,591	2,191
15	14,00	98,530	98,609	98,559	98,694	98,601	98,822	98,667	99,032	2,127
16	14,00	107,209	107,287	107,239	107,372	107,281	107,498	107,347	107,708	2,098
17	14,00	114,708	114,784	114,737	114,867	114,780	114,992	114,845	115,199	2,055
18	14,00	123,302	123,377	123,331	123,460	123,374	123,585	123,440	123,791	2,036
19	14,00	130,842	130,916	130,872	130,999	130,914	131,122	130,980	131,327	2,006
20	14,00	139,371	139,444	139,401	139,526	139,443	139,650	139,510	139,855	1,993
21	14,00	146,948	147,019	146,978	147,102	147,021	147,225	147,087	147,429	1,970
22	14,00	155,424	155,495	155,454	155,578	155,498	155,701	155,564	155,905	1,960
23	14,00	163,033	163,103	163,063	163,185	163,107	163,308	163,174	163,512	1,942
24	15,00	168,148	168,222	168,180	168,309	168,227	168,438	168,298	168,654	2,040
25	15,00	175,808	175,880	175,840	175,966	175,886	176,096	175,958	176,310	2,017
26	15,00	184,218	184,290	184,250	184,376	184,297	184,505	184,369	184,719	2,005
27	15,00	191,897	191,968	191,929	192,054	191,976	192,182	192,048	192,396	1,987
28	15,00	200,275	200,345	200,307	200,431	200,354	200,560	200,427	200,774	1,978
29	15,00	207,972	208,042	208,005	208,127	208,052	208,256	208,125	208,469	1,963
30	15,00	216,322	216,391	216,355	216,477	216,403	216,606	216,476	216,820	1,955
31	15,00	224,036	224,105	224,069	224,190	224,117	224,319	224,191	224,532	1,943
32	15,00	232,363	232,431	232,396	232,517	232,444	232,645	232,519	232,859	1,937
33	15,00	240,091	240,159	240,125	240,245	240,174	240,374	240,248	240,587	1,926
34	15,00	248,398	248,465	248,432	248,551	248,480	248,680	248,555	248,894	1,921
35	15,00	256,140	256,207	256,174	256,293	256,223	256,422	256,299	256,636	1,912
36	15,00	264,428	264,494	264,462	264,581	264,512	264,710	264,588	264,925	1,908
37	15,00	272,183	272,249	272,217	272,335	272,267	272,464	272,344	272,679	1,900
38	15,00	280,455	280,520	280,490	280,607	280,540	280,736	280,617	280,952	1,896
39	15,00	288,221	288,286	288,256	288,373	288,307	288,502	288,384	288,718	1,889
40	15,00	296,479	296,543	296,514	296,630	296,565	296,760	296,643	296,976	1,886
41	15,00	304,255	304,320	304,291	304,406	304,342	304,537	304,420	304,753	1,880
42	15,00	312,500	312,564	312,536	312,651	312,587	312,782	312,666	312,999	1,877
43	15,00	320,286	320,350	320,322	320,437	320,374	320,568	320,453	320,785	1,871
44	15,00	328,519	328,583	328,556	328,670	328,608	328,801	328,687	329,019	1,869
45	15,00	336,314	336,377	336,351	336,465	336,403	336,596	336,483	336,814	1,864
46	15,00	344,537	344,600	344,573	344,687	344,626	344,819	344,707	345,038	1,861
47	15,00	352,339	352,402	352,377	352,490	352,430	352,622	352,511	352,841	1,857
48	15,00	360,553	360,615	360,590	360,703	360,643	360,835	360,725	361,055	1,855
49	15,00	368,363	368,425	368,400	368,513	368,454	368,645	368,536	368,866	1,851
50	15,00	376,567	376,629	376,605	376,717	376,659	376,850	376,742	377,071	1,849
51	15,00	384,384	384,446	384,422	384,535	384,477	384,667	384,560	384,889	1,845
52	15,00	392,580	392,642	392,619	392,731	392,674	392,864	392,757	393,086	1,844
53	15,00	400,404	400,465	400,443	400,554	400,498	400,688	400,582	400,910	1,840
54	15,00	408,593	408,654	408,632	408,743	408,687	408,877	408,772	409,100	1,839
55	15,00	416,423	416,483	416,462	416,573	416,518	416,707	416,603	416,930	1,836
56	15,00	424,604	424,665	424,644	424,754	424,700	424,889	424,785	425,113	1,834
57	15,00	432,440	432,500	432,479	432,590	432,536	432,724	432,622	432,949	1,832
58	15,00	440,615	440,675	440,655	440,765	440,712	440,900	440,798	441,125	1,830
59	15,00	448,456	448,515	448,496	448,606	448,553	448,741	448,640	448,966	1,828
60	15,00	456,625	456,684	456,665	456,775	456,723	456,911	456,810	457,137	1,827
61	15,00	464,471	464,530	464,511	464,621	464,569	464,757	464,657	464,983	1,824
62	15,00	472,634	472,693	472,675	472,784	472,733	472,921	472,822	473,148	1,823
63	15,00	480,485	480,544	480,526	480,635	480,584	480,773	480,673	481,001	1,821
64	15,00	488,643	488,702	488,684	488,794	488,743	488,932	488,833	489,161	1,820
65	15,00	496,498	496,557	496,539	496,649	496,598	496,787	496,688	497,016	1,818
66	15,00	504,651	504,710	504,693	504,803	504,752	504,941	504,843	505,171	1,817
67	15,00	512,510	512,569	512,552	512,662	512,612	512,800	512,703	513,031	1,815
68	15,00	520,659	520,718	520,701	520,811	520,761	520,950	520,853	521,182	1,814
69	15,00	528,522	528,581	528,564	528,674	528,625	528,813	528,717	529,046	1,812
70	15,00	536,666	536,725	536,709	536,818	536,770	536,959	536,862	537,192	1,811
71	15,00	544,533	544,592	544,576	544,685	544,637	544,826	544,730	545,059	1,809
72	15,00	552,673	552,732	552,716	552,826	552,778	552,967	552,871	553,201	1,809
73	15,00	560,543	560,602	560,587	560,696	560,648	560,837	560,742	561,073	1,807
74	15,00	568,680	568,738	568,723	568,833	568,785	568,975	568,880	569,211	1,806
75	15,00	576,553	576,612	576,597	576,707	576,659	576,849	576,754	577,085	1,805
76	15,00	584,686	584,745	584,730	584,840	584,793	584,982	584,888	585,220	1,804
77	15,00	592,563	592,621	592,607	592,716	592,670	592,859	592,766	593,098	1,803
78	15,00	600,692	600,750	600,736	600,846	600,800	600,990	600,896	601,228	1,802
79	15,00	608,572	608,630	608,616	608,726	608,680	608,870	608,777	609,109	1,801
80	15,00	616,698	616,756	616,743	616,852	616,807	616,997	616,904	617,237	1,800
81	15,00	624,580	624,639	624,625	624,735	624,690	624,880	624,787	625,121	1,799
82	15,00	632,703	632,762	632,749	632,858	632,813	633,004	632,911	633,245	1,798
83	15,00	640,589	640,647	640,634	640,744	640,699	640,890	640,797	641,132	1,797
84	15,00	648,709	648,767	648,754	648,864	648,819	649,010	648,918	649,254	1,796
85	15,00	656,596	656,655	656,642	656,752	656,708	656,899	656,807	657,143	1,795
86	15,00	664,714	664,772	664,760	664,870	664,825	665,017	664,925	665,262	1,795
87	15,00	672,604	672,662	672,650	672,760	672,716	672,908	672,817	673,153	1,794
88	15,00	680,718	680,777	680,765	680,875	680,831	681,023	680,932	681,269	1,793
89	15,00	688,611	688,669	688,658	688,768	688,725	688,917	688,826	689,164	1,792
90	15,00	696,723	696,781	696,770	696,880	696,837	697,029	696,939	697,277	1,792
91	15,00	704,618	704,676	704,665	704,776	704,732	704,925	704,835	705,173	1,791
92	15,00	712,727	712,786	712,775	712,885	712,842	713,035	712,945	713,285	1,790
93	15,00	720,625	720,683	720,672	720,783	720,740	720,933	720,843	721,183	1,789
94	15,00	728,732	728,790	728,779	728,890	728,848	729,041	728,951	729,292	1,789
95	15,00	736,631	736,689	736,679	736,790	736,748	736,941	736,851	737,193	1,788
96	15,00	744,736	744,794	744,784	744,895	744,853	745,047	744,957	745,299	1,788
97	15,00	752,637	752,695	752,686	752,797	752,755	752,949	752,859	753,202	1,787
98	15,00	760,740	760,798	760,788	760,900	760,858	761,052	760,963	761,306	1,786
99	15,00	768,643	768,701	768,692	768,803	768,762	768,956	768,867	769,211	1,785
100	15,00	776,744	776,802	776,793	776,904	776,863	777,058	776,969	777,313	1,785

Table 52 — Inspection dimensions external spline, $\alpha = 30°$, $m = 8$, flat or fillet root, $S_{V\,max} = 12{,}566$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	18,00	77,322	77,367	77,279	77,353	77,214	77,334	77,106	77,303	1,218
7	17,00	81,426	81,472	81,381	81,458	81,314	81,437	81,202	81,405	1,248
8	17,00	91,234	91,281	91,186	91,267	91,114	91,244	90,995	91,210	1,307
9	17,00	98,111	98,159	98,062	98,143	97,990	98,121	97,868	98,085	1,311
10	17,00	107,473	107,523	107,423	107,506	107,347	107,482	107,220	107,445	1,352
11	16,00	111,987	112,038	111,934	112,020	111,855	111,995	111,723	111,956	1,392
12	16,00	121,040	121,092	120,986	121,074	120,904	121,048	120,768	121,007	1,423
13	16,00	128,274	128,326	128,219	128,308	128,136	128,281	127,998	128,239	1,428
14	16,00	137,151	137,204	137,095	137,185	137,010	137,157	136,868	137,114	1,451
15	16,00	144,490	144,543	144,433	144,524	144,347	144,495	144,204	144,451	1,456
16	16,00	153,240	153,294	153,182	153,274	153,094	153,244	152,948	153,199	1,475
17	16,00	160,659	160,713	160,600	160,692	160,511	160,662	160,363	160,616	1,479
18	16,00	169,314	169,368	169,254	169,347	169,163	169,316	169,012	169,268	1,495
19	16,00	176,795	176,849	176,734	176,827	176,643	176,796	176,490	176,748	1,498
20	16,00	185,376	185,430	185,314	185,408	185,221	185,376	185,066	185,326	1,512
21	16,00	192,907	192,961	192,844	192,938	192,751	192,906	192,594	192,856	1,515
22	16,00	201,428	201,482	201,365	201,459	201,270	201,426	201,111	201,375	1,526
23	16,00	209,000	209,055	208,936	209,031	208,841	208,997	208,681	208,945	1,529
24	16,00	217,473	217,528	217,408	217,504	217,311	217,469	217,149	217,416	1,539
25	16,00	225,080	225,134	225,015	225,110	224,917	225,075	224,753	225,021	1,542
26	16,00	233,512	233,567	233,446	233,542	233,347	233,506	233,182	233,452	1,550
27	16,00	241,148	241,203	241,082	241,178	240,982	241,142	240,816	241,086	1,553
28	16,00	249,546	249,601	249,479	249,576	249,378	249,539	249,210	249,482	1,560
29	15,00	254,393	254,449	254,325	254,423	254,221	254,385	254,049	254,327	1,590
30	15,00	262,755	262,811	262,685	262,784	262,581	262,746	262,407	262,686	1,597
31	15,00	270,436	270,492	270,366	270,465	270,261	270,426	270,086	270,366	1,598
32	15,00	278,773	278,829	278,702	278,801	278,597	278,762	278,420	278,701	1,604
33	15,00	286,473	286,529	286,402	286,501	286,296	286,461	286,118	286,400	1,605
34	15,00	294,789	294,845	294,718	294,817	294,610	294,776	294,431	294,714	1,610
35	15,00	302,507	302,562	302,435	302,534	302,327	302,493	302,147	302,430	1,611
36	15,00	310,803	310,859	310,731	310,830	310,622	310,789	310,441	310,725	1,616
37	15,00	318,536	318,592	318,464	318,563	318,354	318,521	318,172	318,456	1,617
38	15,00	326,816	326,872	326,743	326,842	326,633	326,800	326,449	326,735	1,621
39	15,00	334,563	334,618	334,489	334,589	334,379	334,546	334,194	334,480	1,622
40	15,00	342,828	342,884	342,754	342,853	342,642	342,810	342,456	342,743	1,626
41	15,00	350,587	350,642	350,512	350,612	350,400	350,568	350,214	350,501	1,627
42	15,00	358,839	358,894	358,764	358,863	358,651	358,819	358,463	358,751	1,630
43	15,00	366,609	366,664	366,534	366,633	366,420	366,588	366,231	366,520	1,631
44	15,00	374,848	374,904	374,773	374,872	374,659	374,827	374,468	374,757	1,634
45	15,00	382,629	382,684	382,553	382,652	382,438	382,606	382,247	382,536	1,635
46	15,00	390,857	390,912	390,781	390,880	390,665	390,834	390,473	390,763	1,638
47	15,00	398,647	398,702	398,570	398,669	398,454	398,623	398,261	398,552	1,639
48	15,00	406,865	406,920	406,788	406,887	406,672	406,840	406,477	406,768	1,641
49	15,00	414,664	414,718	414,586	414,685	414,469	414,638	414,274	414,565	1,642
50	15,00	422,873	422,928	422,795	422,894	422,677	422,846	422,481	422,773	1,645
51	15,00	430,679	430,734	430,601	430,700	430,483	430,652	430,286	430,578	1,645
52	15,00	438,880	438,934	438,801	438,900	438,682	438,851	438,484	438,777	1,648
53	15,00	446,693	446,748	446,614	446,713	446,495	446,664	446,296	446,589	1,648
54	15,00	454,886	454,940	454,806	454,906	454,687	454,856	454,487	454,781	1,650
55	15,00	462,707	462,761	462,627	462,726	462,506	462,676	462,306	462,600	1,651
56	15,00	470,892	470,946	470,812	470,911	470,691	470,861	470,490	470,784	1,653
57	15,00	478,719	478,773	478,638	478,737	478,517	478,686	478,315	478,609	1,654
58	15,00	486,898	486,951	486,816	486,916	486,695	486,864	486,492	486,787	1,656
59	15,00	494,730	494,784	494,649	494,748	494,527	494,696	494,323	494,618	1,656
60	15,00	502,903	502,956	502,821	502,920	502,698	502,868	502,493	502,789	1,658
61	15,00	510,741	510,794	510,659	510,758	510,535	510,705	510,330	510,626	1,658
62	15,00	518,907	518,961	518,825	518,924	518,701	518,871	518,495	518,791	1,660
63	15,00	526,750	526,804	526,667	526,767	526,542	526,714	526,335	526,633	1,661
64	15,00	534,911	534,965	534,828	534,928	534,703	534,874	534,494	534,793	1,662
65	15,00	542,759	542,813	542,675	542,775	542,550	542,721	542,340	542,639	1,663
66	15,00	550,915	550,969	550,831	550,931	550,705	550,877	550,494	550,794	1,664
67	15,00	558,768	558,821	558,683	558,783	558,556	558,729	558,345	558,646	1,665
68	15,00	566,919	566,973	566,834	566,934	566,707	566,879	566,494	566,796	1,666
69	15,00	574,776	574,829	574,690	574,791	574,562	574,735	574,349	574,651	1,666
70	15,00	582,922	582,976	582,837	582,937	582,708	582,881	582,494	582,797	1,668
71	15,00	590,783	590,837	590,697	590,798	590,568	590,741	590,353	590,656	1,668
72	15,00	598,926	598,979	598,839	598,940	598,710	598,883	598,493	598,798	1,669
73	15,00	606,790	606,844	606,703	606,804	606,573	606,747	606,356	606,661	1,670
74	15,00	614,929	614,982	614,841	614,942	614,711	614,885	614,493	614,798	1,671
75	15,00	622,797	622,850	622,709	622,810	622,578	622,753	622,359	622,665	1,671
76	15,00	630,931	630,985	630,843	630,945	630,712	630,887	630,492	630,799	1,672
77	15,00	638,803	638,857	638,715	638,816	638,582	638,758	638,362	638,669	1,673
78	15,00	646,934	646,988	646,845	646,947	646,712	646,888	646,491	646,799	1,674
79	15,00	654,809	654,862	654,720	654,821	654,586	654,762	654,364	654,673	1,674
80	15,00	662,936	662,990	662,847	662,949	662,713	662,889	662,490	662,799	1,675
81	15,00	670,814	670,868	670,724	670,826	670,590	670,767	670,366	670,676	1,676
82	15,00	678,939	678,993	678,849	678,951	678,714	678,891	678,488	678,799	1,677
83	15,00	686,819	686,873	686,729	686,831	686,593	686,771	686,367	686,679	1,677
84	15,00	694,941	694,995	694,850	694,952	694,714	694,892	694,487	694,799	1,678
85	15,00	702,824	702,878	702,733	702,836	702,597	702,775	702,369	702,682	1,678
86	15,00	710,943	710,997	710,851	710,954	710,714	710,892	710,485	710,799	1,679
87	15,00	718,829	718,883	718,737	718,840	718,599	718,778	718,370	718,685	1,679
88	15,00	726,944	726,999	726,852	726,955	726,714	726,893	726,484	726,799	1,680
89	15,00	734,833	734,887	734,741	734,844	734,602	734,781	734,371	734,687	1,680
90	15,00	742,946	743,000	742,853	742,957	742,714	742,894	742,482	742,799	1,681
91	15,00	750,837	750,892	750,744	750,848	750,604	750,785	750,371	750,689	1,681
92	15,00	758,948	759,002	758,854	758,958	758,714	758,894	758,480	758,798	1,682
93	15,00	766,841	766,896	766,747	766,851	766,606	766,787	766,372	766,691	1,683
94	15,00	774,949	775,004	774,855	774,959	774,714	774,895	774,478	774,798	1,683
95	15,00	782,845	782,899	782,750	782,855	782,608	782,790	782,372	782,693	1,684
96	15,00	790,951	791,005	790,856	790,960	790,713	790,895	790,476	790,797	1,684
97	15,00	798,848	798,903	798,753	798,858	798,610	798,793	798,372	798,694	1,685
98	15,00	806,952	807,007	806,856	806,961	806,713	806,896	806,473	806,797	1,685
99	15,00	814,852	814,907	814,756	814,861	814,612	814,795	814,372	814,696	1,685
100	15,00	822,953	823,008	822,857	822,962	822,712	822,896	822,471	822,796	1,686

5.14 30° pressure angle, module 10

Table 53 — Geometry internal spline, $\alpha = 30°$, $m = 10$, flat and fillet root, $E_{v\,min} = 15{,}708$

z	D	D_b	$D_{ei\,max}$ Fillet root	$D_{ei\,max}$ Flat	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
							4H	5H	6H	7H
6	60,00	51,9615	78,44	75,44	72,00	54,31	15,772	15,810	15,868	15,964
7	70,00	60,6218	88,45	85,45	82,00	63,61	15,773	15,812	15,870	15,968
8	80,00	69,2820	98,46	95,46	92,00	73,11	15,774	15,813	15,873	15,972
9	90,00	77,9423	108,46	105,46	102,00	82,72	15,775	15,815	15,875	15,975
10	100,00	86,6025	118,47	115,47	112,00	92,42	15,776	15,816	15,877	15,978
11	110,00	95,2628	128,47	125,47	122,00	102,18	15,776	15,817	15,879	15,981
12	120,00	103,9230	138,48	135,48	132,00	111,98	15,777	15,819	15,881	15,984
13	130,00	112,5833	148,48	145,48	142,00	121,82	15,778	15,820	15,883	15,987
14	140,00	121,2436	158,49	155,49	152,00	131,68	15,778	15,821	15,884	15,990
15	150,00	129,9038	168,49	165,49	162,00	141,56	15,779	15,822	15,886	15,992
16	160,00	138,5641	178,50	175,50	172,00	151,45	15,780	15,823	15,887	15,995
17	170,00	147,2243	188,50	185,50	182,00	161,36	15,780	15,824	15,889	15,997
18	180,00	155,8846	198,51	195,51	192,00	171,28	15,781	15,825	15,890	16,000
19	190,00	164,5448	208,51	205,51	202,00	181,21	15,781	15,826	15,892	16,002
20	200,00	173,2051	218,51	215,51	212,00	191,15	15,782	15,826	15,893	16,004
21	210,00	181,8653	228,52	225,52	222,00	201,09	15,783	15,827	15,894	16,006
22	220,00	190,5256	238,52	235,52	232,00	211,04	15,783	15,828	15,896	16,008
23	230,00	199,1858	248,52	245,52	242,00	220,99	15,784	15,829	15,897	16,010
24	240,00	207,8461	258,53	255,53	252,00	230,95	15,784	15,830	15,898	16,012
25	250,00	216,5064	268,53	265,53	262,00	240,91	15,785	15,830	15,899	16,014
26	260,00	225,1666	278,53	275,53	272,00	250,87	15,785	15,831	15,901	16,016
27	270,00	233,8269	288,54	285,54	282,00	260,84	15,785	15,832	15,902	16,018
28	280,00	242,4871	298,54	295,54	292,00	270,80	15,786	15,833	15,903	16,020
29	290,00	251,1474	308,54	305,54	302,00	280,78	15,786	15,833	15,904	16,022
30	300,00	259,8076	318,55	315,55	312,00	290,75	15,787	15,834	15,905	16,023
31	310,00	268,4679	328,55	325,55	322,00	300,72	15,787	15,835	15,906	16,025
32	320,00	277,1281	338,55	335,55	332,00	310,70	15,788	15,835	15,907	16,027
33	330,00	285,7884	348,55	345,55	342,00	320,68	15,788	15,836	15,908	16,028
34	340,00	294,4486	358,56	355,56	352,00	330,66	15,789	15,837	15,909	16,030
35	350,00	303,1089	368,56	365,56	362,00	340,64	15,789	15,837	15,910	16,032
36	360,00	311,7691	378,56	375,56	372,00	350,62	15,789	15,838	15,911	16,033
37	370,00	320,4294	388,57	385,57	382,00	360,60	15,790	15,839	15,912	16,035
38	380,00	329,0897	398,57	395,57	392,00	370,59	15,790	15,839	15,913	16,036
39	390,00	337,7499	408,57	405,57	402,00	380,57	15,790	15,840	15,914	16,038
40	400,00	346,4102	418,57	415,57	412,00	390,56	15,791	15,841	15,915	16,039
41	410,00	355,0704	428,58	425,58	422,00	400,54	15,791	15,841	15,916	16,041
42	420,00	363,7307	438,58	435,58	432,00	410,53	15,792	15,842	15,917	16,042
43	430,00	372,3909	448,58	445,58	442,00	420,52	15,792	15,842	15,918	16,044
44	440,00	381,0512	458,58	455,58	452,00	430,50	15,792	15,843	15,919	16,045
45	450,00	389,7114	468,59	465,59	462,00	440,49	15,793	15,844	15,920	16,047
46	460,00	398,3717	478,59	475,59	472,00	450,48	15,793	15,844	15,921	16,048
47	470,00	407,0319	488,59	485,59	482,00	460,47	15,793	15,845	15,921	16,050
48	480,00	415,6922	498,59	495,59	492,00	470,46	15,794	15,845	15,922	16,051
49	490,00	424,3524	508,60	505,60	502,00	480,45	15,794	15,846	15,923	16,052
50	500,00	433,0127	518,60	515,60	512,00	490,44	15,794	15,846	15,924	16,054
51	510,00	441,6730	528,60	525,60	522,00	500,43	15,795	15,847	15,926	16,056
52	520,00	450,3332	538,61	535,61	532,00	510,43	15,796	15,848	15,927	16,058
53	530,00	458,9935	548,61	545,61	542,00	520,42	15,796	15,849	15,928	16,060
54	540,00	467,6537	558,61	555,61	552,00	530,41	15,796	15,849	15,929	16,061
55	550,00	476,3140	568,61	565,61	562,00	540,40	15,797	15,850	15,930	16,063
56	560,00	484,9742	578,62	575,62	572,00	550,39	15,797	15,851	15,931	16,064
57	570,00	493,6345	588,62	585,62	582,00	560,39	15,798	15,851	15,932	16,066
58	580,00	502,2947	598,62	595,62	592,00	570,38	15,798	15,852	15,933	16,068
59	590,00	510,9550	608,63	605,63	602,00	580,37	15,798	15,852	15,934	16,069
60	600,00	519,6152	618,63	615,63	612,00	590,37	15,799	15,853	15,935	16,071
61	610,00	528,2755	628,63	625,63	622,00	600,36	15,799	15,854	15,936	16,072
62	620,00	536,9358	638,63	635,63	632,00	610,36	15,800	15,854	15,937	16,074
63	630,00	545,5960	648,64	645,64	642,00	620,35	15,800	15,855	15,938	16,076
64	640,00	554,2563	658,64	655,64	652,00	630,34	15,800	15,856	15,939	16,077
65	650,00	562,9165	668,64	665,64	662,00	640,34	15,801	15,856	15,940	16,079
66	660,00	571,5768	678,65	675,65	672,00	650,33	15,801	15,857	15,941	16,080
67	670,00	580,2370	688,65	685,65	682,00	660,33	15,802	15,858	15,942	16,082
68	680,00	588,8973	698,65	695,65	692,00	670,32	15,802	15,858	15,943	16,084
69	690,00	597,5575	708,65	705,65	702,00	680,32	15,802	15,859	15,944	16,085
70	700,00	606,2178	718,66	715,66	712,00	690,31	15,803	15,860	15,945	16,087
71	710,00	614,8780	728,66	725,66	722,00	700,31	15,803	15,860	15,946	16,088
72	720,00	623,5383	738,66	735,66	732,00	710,31	15,804	15,861	15,947	16,090
73	730,00	632,1985	748,66	745,66	742,00	720,30	15,804	15,861	15,948	16,092
74	740,00	640,8588	758,67	755,67	752,00	730,30	15,804	15,862	15,949	16,093
75	750,00	649,5191	768,67	765,67	762,00	740,29	15,805	15,863	15,950	16,095
76	760,00	658,1793	778,67	775,67	772,00	750,29	15,805	15,863	15,951	16,096
77	770,00	666,8396	788,68	785,68	782,00	760,28	15,806	15,864	15,952	16,098
78	780,00	675,4998	798,68	795,68	792,00	770,28	15,806	15,865	15,953	16,100
79	790,00	684,1601	808,68	805,68	802,00	780,28	15,806	15,865	15,954	16,101
80	800,00	692,8203	818,68	815,68	812,00	790,27	15,807	15,866	15,955	16,103
81	810,00	701,4806	828,69	825,69	822,00	800,27	15,807	15,867	15,956	16,104
82	820,00	710,1408	838,69	835,69	832,00	810,27	15,808	15,867	15,957	16,106
83	830,00	718,8011	848,69	845,69	842,00	820,26	15,808	15,868	15,958	16,108
84	840,00	727,4613	858,69	855,69	852,00	830,26	15,808	15,868	15,959	16,109
85	850,00	736,1216	868,70	865,70	862,00	840,26	15,809	15,869	15,960	16,111
86	860,00	744,7818	878,70	875,70	872,00	850,25	15,809	15,870	15,961	16,112
87	870,00	753,4421	888,70	885,70	882,00	860,25	15,810	15,870	15,962	16,114
88	880,00	762,1024	898,71	895,71	892,00	870,25	15,810	15,871	15,963	16,116
89	890,00	770,7626	908,71	905,71	902,00	880,25	15,810	15,872	15,964	16,117
90	900,00	779,4229	918,71	915,71	912,00	890,24	15,811	15,872	15,965	16,119
91	910,00	788,0831	928,71	925,71	922,00	900,24	15,811	15,873	15,966	16,120
92	920,00	796,7434	938,72	935,72	932,00	910,24	15,812	15,874	15,967	16,122
93	930,00	805,4036	948,72	945,72	942,00	920,24	15,812	15,874	15,968	16,124
94	940,00	814,0639	958,72	955,72	952,00	930,23	15,812	15,875	15,969	16,125
95	950,00	822,7241	968,73	965,73	962,00	940,23	15,813	15,876	15,970	16,127
96	960,00	831,3844	978,73	975,73	972,00	950,23	15,813	15,876	15,971	16,128
97	970,00	840,0446	988,73	985,73	982,00	960,23	15,814	15,877	15,972	16,130
98	980,00	848,7049	998,73	995,73	992,00	970,22	15,814	15,877	15,973	16,132
99	990,00	857,3651	1008,74	1005,74	1002,00	980,22	15,814	15,878	15,974	16,133
100	1000,00	866,0254	1018,74	1015,74	1012,00	990,22	15,815	15,879	15,975	16,135

Table 54 — Geometry external spline, $\alpha = 30°$, $m = 10$, flat and fillet root, $S_{v\,max} = 15{,}708$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$ Fillet root	$D_{ie\,min}$ Flat	S_{min}			
							4h	5h	6h	7h
6	60,00	51,9615	70,00	52,31	41,56	44,56	15,644	15,606	15,548	15,452
7	70,00	60,6218	80,00	61,61	51,55	54,55	15,643	15,604	15,546	15,448
8	80,00	69,2820	90,00	71,11	61,54	64,54	15,642	15,603	15,543	15,444
9	90,00	77,9423	100,00	80,72	71,54	74,54	15,641	15,601	15,541	15,441
10	100,00	86,6025	110,00	90,42	81,53	84,53	15,640	15,600	15,539	15,438
11	110,00	95,2628	120,00	100,18	91,53	94,53	15,640	15,599	15,537	15,435
12	120,00	103,9230	130,00	109,98	101,52	104,52	15,639	15,597	15,535	15,432
13	130,00	112,5833	140,00	119,82	111,52	114,52	15,638	15,596	15,533	15,429
14	140,00	121,2436	150,00	129,68	121,51	124,51	15,638	15,595	15,532	15,426
15	150,00	129,9038	160,00	139,56	131,51	134,51	15,637	15,594	15,530	15,424
16	160,00	138,5641	170,00	149,45	141,50	144,50	15,636	15,593	15,529	15,421
17	170,00	147,2243	180,00	159,36	151,50	154,50	15,636	15,592	15,527	15,419
18	180,00	155,8846	190,00	169,28	161,49	164,49	15,635	15,591	15,526	15,416
19	190,00	164,5448	200,00	179,21	171,49	174,49	15,635	15,590	15,524	15,414
20	200,00	173,2051	210,00	189,15	181,49	184,49	15,634	15,590	15,523	15,412
21	210,00	181,8653	220,00	199,09	191,48	194,48	15,633	15,589	15,522	15,410
22	220,00	190,5256	230,00	209,04	201,48	204,48	15,633	15,588	15,520	15,408
23	230,00	199,1858	240,00	218,99	211,48	214,48	15,632	15,587	15,519	15,406
24	240,00	207,8461	250,00	228,95	221,47	224,47	15,632	15,586	15,518	15,404
25	250,00	216,5064	260,00	238,91	231,47	234,47	15,631	15,586	15,517	15,402
26	260,00	225,1666	270,00	248,87	241,47	244,47	15,631	15,585	15,515	15,400
27	270,00	233,8269	280,00	258,84	251,46	254,46	15,631	15,584	15,514	15,398
28	280,00	242,4871	290,00	268,80	261,46	264,46	15,630	15,583	15,513	15,396
29	290,00	251,1474	300,00	278,78	271,46	274,46	15,630	15,583	15,512	15,394
30	300,00	259,8076	310,00	288,75	281,45	284,45	15,629	15,582	15,511	15,393
31	310,000	268,4679	320,00	298,72	291,45	294,45	15,629	15,581	15,510	15,391
32	320,00	277,1281	330,00	308,70	301,45	304,45	15,628	15,581	15,509	15,389
33	330,00	285,7884	340,00	318,68	311,45	314,45	15,628	15,580	15,508	15,388
34	340,00	294,4486	350,00	328,66	321,44	324,44	15,627	15,579	15,507	15,386
35	350,00	303,1089	360,00	338,64	331,44	334,44	15,627	15,579	15,506	15,384
36	360,00	311,7691	370,00	348,62	341,44	344,44	15,627	15,578	15,505	15,383
37	370,00	320,4294	380,00	358,60	351,43	354,43	15,626	15,577	15,504	15,381
38	380,00	329,0897	390,00	368,59	361,43	364,43	15,626	15,577	15,503	15,380
39	390,00	337,7499	400,00	378,57	371,43	374,43	15,626	15,576	15,502	15,378
40	400,00	346,4102	410,00	388,56	381,43	384,43	15,625	15,575	15,501	15,377
41	410,00	355,0704	420,00	398,54	391,42	394,42	15,625	15,575	15,500	15,375
42	420,00	363,7307	430,00	408,53	401,42	404,42	15,624	15,574	15,499	15,374
43	430,00	372,3909	440,00	418,52	411,42	414,42	15,624	15,574	15,498	15,372
44	440,00	381,0512	450,00	428,50	421,42	424,42	15,624	15,573	15,497	15,371
45	450,00	389,7114	460,00	438,49	431,41	434,41	15,623	15,572	15,496	15,369
46	460,00	398,3717	470,00	448,48	441,41	444,41	15,623	15,572	15,495	15,368
47	470,00	407,0319	480,00	458,47	451,41	454,41	15,623	15,571	15,495	15,366
48	480,00	415,6922	490,00	468,46	461,41	464,41	15,622	15,571	15,494	15,365
49	490,00	424,3524	500,00	478,45	471,40	474,40	15,622	15,570	15,493	15,364
50	500,00	433,0127	510,00	488,44	481,40	484,40	15,622	15,570	15,492	15,362
51	510,00	441,6730	520,00	498,43	491,40	494,40	15,621	15,569	15,490	15,360
52	520,00	450,3332	530,00	508,43	501,39	504,39	15,620	15,568	15,489	15,358
53	530,00	458,9935	540,00	518,42	511,39	514,39	15,620	15,567	15,488	15,356
54	540,00	467,6537	550,00	528,41	521,39	524,39	15,620	15,567	15,487	15,355
55	550,00	476,3140	560,00	538,40	531,39	534,39	15,619	15,566	15,486	15,353
56	560,00	484,9742	570,00	548,39	541,38	544,38	15,619	15,565	15,485	15,352
57	570,00	493,6345	580,00	558,39	551,38	554,38	15,618	15,565	15,484	15,350
58	580,00	502,2947	590,00	568,38	561,38	564,38	15,618	15,564	15,483	15,348
59	590,00	510,9550	600,00	578,37	571,37	574,37	15,618	15,564	15,482	15,347
60	600,00	519,6152	610,00	588,37	581,37	584,37	15,617	15,563	15,481	15,345
61	610,00	528,2755	620,00	598,36	591,37	594,37	15,617	15,562	15,480	15,344
62	620,00	536,9358	630,00	608,36	601,37	604,37	15,616	15,562	15,479	15,342
63	630,00	545,5960	640,00	618,35	611,36	614,36	15,616	15,561	15,478	15,340
64	640,00	554,2563	650,00	628,34	621,36	624,36	15,616	15,560	15,477	15,339
65	650,00	562,9165	660,00	638,34	631,36	634,36	15,615	15,560	15,476	15,337
66	660,00	571,5768	670,00	648,33	641,35	644,35	15,615	15,559	15,475	15,336
67	670,00	580,2370	680,00	658,33	651,35	654,35	15,614	15,558	15,474	15,334
68	680,00	588,8973	690,00	668,32	661,35	664,35	15,614	15,558	15,473	15,332
69	690,00	597,5575	700,00	678,32	671,35	674,35	15,614	15,557	15,472	15,331
70	700,00	606,2178	710,00	688,31	681,34	684,34	15,613	15,556	15,471	15,329
71	710,00	614,8780	720,00	698,31	691,34	694,34	15,613	15,556	15,470	15,328
72	720,00	623,5383	730,00	708,31	701,34	704,34	15,612	15,555	15,469	15,326
73	730,00	632,1985	740,00	718,30	711,34	714,34	15,612	15,555	15,468	15,324
74	740,00	640,8588	750,00	728,30	721,33	724,33	15,612	15,554	15,467	15,323
75	750,00	649,5191	760,00	738,29	731,33	734,33	15,611	15,553	15,466	15,321
76	760,00	658,1793	770,00	748,29	741,33	744,33	15,611	15,553	15,465	15,320
77	770,00	666,8396	780,00	758,28	751,32	754,32	15,610	15,552	15,464	15,318
78	780,00	675,4998	790,00	768,28	761,32	764,32	15,610	15,551	15,463	15,316
79	790,00	684,1601	800,00	778,28	771,32	774,32	15,610	15,551	15,462	15,315
80	800,00	692,8203	810,00	788,27	781,32	784,32	15,609	15,550	15,461	15,313
81	810,00	701,4806	820,00	798,27	791,31	794,31	15,609	15,549	15,460	15,312
82	820,00	710,1408	830,00	808,27	801,31	804,31	15,608	15,549	15,459	15,310
83	830,00	718,8011	840,00	818,26	811,31	814,31	15,608	15,548	15,458	15,308
84	840,00	727,4613	850,00	828,26	821,31	824,31	15,608	15,548	15,457	15,307
85	850,00	736,1216	860,00	838,26	831,30	834,30	15,607	15,547	15,456	15,305
86	860,00	744,7818	870,00	848,25	841,30	844,30	15,607	15,546	15,455	15,304
87	870,00	753,4421	880,00	858,25	851,30	854,30	15,606	15,546	15,454	15,302
88	880,00	762,1024	890,00	868,25	861,29	864,29	15,606	15,545	15,453	15,300
89	890,00	770,7626	900,00	878,25	871,29	874,29	15,606	15,544	15,452	15,299
90	900,00	779,4229	910,00	888,24	881,29	884,29	15,605	15,544	15,451	15,297
91	910,00	788,0831	920,00	898,24	891,29	894,29	15,605	15,543	15,450	15,296
92	920,00	796,7434	930,00	908,24	901,28	904,28	15,604	15,542	15,449	15,294
93	930,00	805,4036	940,00	918,24	911,28	914,28	15,604	15,542	15,448	15,292
94	940,00	814,0639	950,00	928,23	921,28	924,28	15,604	15,541	15,447	15,291
95	950,00	822,7241	960,00	938,23	931,27	934,27	15,603	15,540	15,446	15,289
96	960,00	831,3844	970,00	948,23	941,27	944,27	15,603	15,540	15,445	15,288
97	970,00	840,0446	980,00	958,23	951,27	954,27	15,602	15,539	15,444	15,286
98	980,00	848,7049	990,00	968,22	961,27	964,27	15,602	15,539	15,443	15,284
99	990,00	857,3651	1000,00	978,22	971,26	974,26	15,602	15,538	15,442	15,283
100	1000,00	866,0254	1010,00	988,22	981,26	984,26	15,601	15,537	15,441	15,281

Table 55 — Inspection dimensions internal spline, $\alpha = 30°$, $m = 10$, flat or fillet root, $E_{v\,min} = 15{,}708$

z	D_{Ri}	Measurement over balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—	—
8	17,00	54,427	54,563	54,472	54,698	54,539	54,894	54,642	55,206	3,075
9	17,00	63,639	63,747	63,676	63,856	63,730	64,018	63,814	64,281	2,593
10	17,00	75,139	75,237	75,173	75,339	75,224	75,490	75,302	75,737	2,421
11	17,00	84,268	84,359	84,300	84,455	84,348	84,597	84,423	84,831	2,270
12	17,00	95,433	95,521	95,465	95,614	95,512	95,754	95,586	95,984	2,207
13	18,00	100,947	101,044	100,983	101,148	101,036	101,303	101,119	101,558	2,420
14	18,00	111,995	112,088	112,030	112,188	112,082	112,339	112,163	112,586	2,331
15	18,00	121,363	121,451	121,397	121,548	121,448	121,694	121,526	121,934	2,242
16	18,00	132,239	132,325	132,273	132,421	132,323	132,564	132,401	132,801	2,195
17	18,00	141,644	141,727	141,678	141,821	141,728	141,962	141,804	142,195	2,139
18	18,00	152,403	152,485	152,437	152,578	152,486	152,718	152,563	152,949	2,110
19	18,00	161,850	161,930	161,884	162,022	161,934	162,161	162,010	162,389	2,071
20	18,00	172,522	172,601	172,556	172,693	172,605	172,830	172,682	173,059	2,052
21	18,00	182,009	182,086	182,043	182,178	182,093	182,315	182,169	182,541	2,023
22	18,00	192,612	192,689	192,647	192,780	192,697	192,917	192,774	193,144	2,009
23	18,00	202,136	202,211	202,170	202,302	202,220	202,438	202,297	202,664	1,987
24	18,00	212,684	212,759	212,719	212,850	212,769	212,986	212,847	213,212	1,977
25	18,00	222,239	222,313	222,274	222,404	222,325	222,540	222,403	222,765	1,960
26	18,00	232,742	232,816	232,777	232,906	232,828	233,042	232,907	233,268	1,951
27	18,00	242,326	242,399	242,361	242,489	242,413	242,625	242,492	242,851	1,937
28	18,00	252,790	252,863	252,826	252,953	252,878	253,089	252,957	253,316	1,931
29	18,00	262,400	262,471	262,436	262,562	262,488	262,698	262,568	262,924	1,919
30	18,00	272,831	272,902	272,867	272,993	272,920	273,130	273,000	273,356	1,913
31	18,00	282,463	282,534	282,500	282,625	282,552	282,761	282,633	282,988	1,904
32	18,00	292,866	292,936	292,903	293,027	292,956	293,164	293,038	293,391	1,899
33	18,00	302,518	302,588	302,555	302,679	302,609	302,816	302,691	303,043	1,891
34	18,00	312,896	312,966	312,934	313,057	312,988	313,194	313,071	313,423	1,887
35	18,00	322,567	322,636	322,605	322,727	322,659	322,865	322,742	323,093	1,879
36	18,00	332,923	332,991	332,961	333,083	333,016	333,221	333,100	333,450	1,876
37	18,00	342,610	342,678	342,648	342,770	342,703	342,908	342,788	343,137	1,870
38	18,00	352,947	353,014	352,985	353,107	353,041	353,245	353,126	353,475	1,867
39	18,00	362,649	362,716	362,687	362,808	362,743	362,947	362,829	363,177	1,861
40	18,00	372,968	373,035	373,007	373,127	373,063	373,266	373,150	373,498	1,859
41	18,00	382,683	382,750	382,723	382,843	382,779	382,982	382,866	383,214	1,854
42	18,00	392,987	393,053	393,026	393,146	393,084	393,286	393,171	393,518	1,852
43	18,00	402,715	402,781	402,755	402,874	402,812	403,014	402,900	403,247	1,847
44	18,00	413,004	413,069	413,044	413,163	413,102	413,304	413,191	413,537	1,845
45	18,00	422,743	422,808	422,784	422,902	422,842	423,043	422,931	423,277	1,841
46	18,00	433,019	433,084	433,060	433,179	433,119	433,320	433,209	433,555	1,839
47	18,00	442,769	442,834	442,810	442,928	442,870	443,070	442,960	443,305	1,836
48	18,00	453,034	453,098	453,075	453,193	453,135	453,335	453,226	453,571	1,834
49	18,00	462,793	462,857	462,835	462,952	462,895	463,094	462,987	463,331	1,831
50	18,00	473,047	473,111	473,089	473,206	473,149	473,349	473,242	473,586	1,829
51	18,00	482,815	482,880	482,858	482,975	482,919	483,119	483,011	483,358	1,826
52	18,00	493,059	493,123	493,102	493,219	493,163	493,363	493,256	493,603	1,825
53	18,00	502,836	502,900	502,879	502,996	502,940	503,141	503,034	503,381	1,822
54	18,00	513,070	513,134	513,113	513,231	513,175	513,376	513,270	513,617	1,821
55	18,00	522,855	522,919	522,898	523,016	522,961	523,161	523,056	523,403	1,818
56	18,00	533,081	533,144	533,124	533,242	533,187	533,388	533,283	533,631	1,817
57	18,00	542,873	542,936	542,916	543,034	542,980	543,180	543,076	543,424	1,815
58	18,00	553,090	553,154	553,135	553,252	553,198	553,399	553,295	553,644	1,814
59	18,00	562,889	562,952	562,934	563,051	562,998	563,198	563,095	563,444	1,812
60	18,00	573,100	573,163	573,144	573,262	573,209	573,410	573,307	573,656	1,811
61	18,00	582,905	582,968	582,950	583,067	583,014	583,216	583,113	583,463	1,809
62	18,00	593,108	593,171	593,153	593,271	593,219	593,420	593,318	593,668	1,808
63	18,00	602,919	602,982	602,965	603,082	603,030	603,232	603,130	603,481	1,806
64	18,00	613,116	613,179	613,162	613,280	613,228	613,430	613,328	613,680	1,805
65	18,00	622,933	622,996	622,979	623,096	623,045	623,247	623,146	623,498	1,804
66	18,00	633,124	633,187	633,170	633,288	633,237	633,439	633,338	633,691	1,803
67	18,00	642,946	643,009	642,992	643,110	643,059	643,262	643,161	643,515	1,801
68	18,00	653,131	653,194	653,178	653,296	653,245	653,448	653,348	653,702	1,800
69	18,00	662,958	663,021	663,005	663,123	663,073	663,276	663,176	663,531	1,799
70	18,00	673,138	673,201	673,185	673,303	673,253	673,457	673,357	673,712	1,798
71	18,00	682,969	683,032	683,017	683,135	683,086	683,289	683,190	683,546	1,797
72	18,00	693,144	693,207	693,192	693,310	693,261	693,465	693,366	693,723	1,796
73	18,00	702,980	703,043	703,029	703,147	703,098	703,302	703,203	703,560	1,795
74	18,00	713,150	713,213	713,199	713,317	713,269	713,473	713,375	713,732	1,794
75	18,00	722,991	723,054	723,040	723,158	723,110	723,314	723,216	723,575	1,793
76	18,00	733,156	733,219	733,205	733,324	733,276	733,481	733,383	733,742	1,792
77	18,00	743,001	743,064	743,050	743,169	743,121	743,326	743,228	743,588	1,791
78	18,00	753,162	753,225	753,211	753,330	753,283	753,488	753,391	753,752	1,791
79	18,00	763,010	763,073	763,060	763,179	763,132	763,338	763,240	763,602	1,790
80	18,00	773,167	773,231	773,217	773,337	773,289	773,496	773,398	773,761	1,789
81	18,00	783,019	783,082	783,069	783,189	783,142	783,349	783,251	783,615	1,788
82	18,00	793,172	793,236	793,223	793,343	793,296	793,503	793,406	793,770	1,788
83	18,00	803,028	803,091	803,079	803,199	803,152	803,359	803,262	803,627	1,786
84	18,00	813,177	813,241	813,228	813,348	813,302	813,510	813,413	813,779	1,786
85	18,00	823,036	823,100	823,087	823,208	823,161	823,370	823,273	823,639	1,785
86	18,00	833,182	833,246	833,234	833,354	833,308	833,517	833,420	833,788	1,785
87	18,00	843,044	843,108	843,096	843,216	843,170	843,380	843,283	843,651	1,784
88	18,00	853,187	853,250	853,239	853,360	853,313	853,523	853,427	853,796	1,783
89	18,00	863,052	863,115	863,104	863,225	863,179	863,389	863,293	863,663	1,782
90	18,00	873,191	873,255	873,243	873,365	873,319	873,530	873,433	873,805	1,782
91	18,00	883,059	883,123	883,112	883,233	883,187	883,399	883,302	883,674	1,781
92	18,00	893,195	893,259	893,248	893,370	893,324	893,536	893,440	893,813	1,781
93	18,00	903,066	903,130	903,119	903,241	903,196	903,408	903,312	903,685	1,780
94	18,00	913,199	913,264	913,253	913,375	913,330	913,542	913,446	913,821	1,780
95	18,00	923,073	923,137	923,126	923,249	923,204	923,417	923,321	923,696	1,779
96	18,00	933,203	933,268	933,257	933,380	933,335	933,549	933,452	933,829	1,779
97	18,00	943,079	943,144	943,133	943,256	943,211	943,425	943,329	943,707	1,778
98	18,00	953,207	953,272	953,261	953,385	953,340	953,554	953,458	953,837	1,778
99	18,00	963,085	963,150	963,140	963,264	963,219	963,434	963,338	963,717	1,777
100	18,00	973,211	973,276	973,266	973,390	973,345	973,560	973,464	973,845	1,777

Table 56 — Inspection dimensions external spline, $\alpha = 30°$, $m = 10$, flat or fillet root, $S_{v\,max} = 15{,}708$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	22,40	96,425	96,472	96,378	96,457	96,308	96,435	96,191	96,400	1,220
7	22,40	104,577	104,624	104,530	104,609	104,458	104,586	104,340	104,551	1,219
8	21,20	113,930	113,981	113,879	113,964	113,801	113,939	113,672	113,900	1,308
9	21,20	122,527	122,578	122,474	122,560	122,396	122,535	122,265	122,495	1,311
10	21,20	134,228	134,280	134,173	134,262	134,091	134,235	133,954	134,193	1,352
11	20,00	139,998	140,052	139,941	140,033	139,856	140,004	139,713	139,960	1,391
12	20,00	151,315	151,370	151,257	151,350	151,168	151,321	151,021	151,275	1,422
13	20,00	160,358	160,413	160,299	160,393	160,209	160,362	160,060	160,315	1,426
14	20,00	171,455	171,510	171,394	171,489	171,302	171,458	171,149	171,409	1,450
15	20,00	180,629	180,685	180,567	180,663	180,474	180,631	180,319	180,581	1,455
16	20,00	191,567	191,623	191,504	191,601	191,409	191,568	191,250	191,517	1,474
17	20,00	200,840	200,897	200,777	200,874	200,681	200,840	200,520	200,788	1,478
18	20,00	211,659	211,716	211,594	211,693	211,496	211,658	211,333	211,604	1,494
19	20,00	221,011	221,068	220,945	221,043	220,846	221,008	220,681	220,954	1,497
20	20,00	231,737	231,794	231,670	231,769	231,569	231,733	231,402	231,677	1,510
21	19,00	238,394	238,452	238,325	238,426	238,222	238,389	238,050	238,331	1,540
22	19,00	249,033	249,091	248,963	249,065	248,858	249,027	248,684	248,968	1,551
23	19,00	258,495	258,553	258,425	258,527	258,319	258,488	258,143	258,428	1,553
24	19,00	269,075	269,133	269,004	269,106	268,897	269,067	268,719	269,006	1,562
25	19,00	278,580	278,639	278,509	278,611	278,401	278,571	278,222	278,510	1,565
26	19,00	289,111	289,170	289,039	289,142	288,930	289,101	288,748	289,038	1,573
27	19,00	298,654	298,712	298,581	298,684	298,471	298,643	298,288	298,579	1,575
28	19,00	309,143	309,202	309,069	309,173	308,959	309,131	308,774	309,066	1,582
29	19,00	318,718	318,776	318,643	318,747	318,532	318,704	318,346	318,639	1,584
30	19,00	329,171	329,230	329,096	329,200	328,984	329,157	328,796	329,090	1,590
31	19,00	338,773	338,832	338,698	338,801	338,584	338,758	338,395	338,690	1,592
32	19,00	349,196	349,255	349,120	349,224	349,006	349,180	348,815	349,111	1,597
33	19,00	358,822	358,881	358,746	358,850	358,631	358,805	358,439	358,736	1,599
34	19,00	369,219	369,277	369,141	369,245	369,025	369,200	368,832	369,130	1,604
35	19,00	378,866	378,924	378,788	378,892	378,672	378,846	378,477	378,776	1,605
36	19,00	389,238	389,297	389,160	389,264	389,042	389,218	388,846	389,146	1,610
37	19,00	398,905	398,963	398,826	398,931	398,708	398,883	398,511	398,811	1,611
38	19,00	409,256	409,315	409,177	409,281	409,058	409,234	408,859	409,160	1,615
39	19,00	418,940	418,998	418,860	418,965	418,741	418,916	418,541	418,842	1,617
40	19,00	429,273	429,331	429,192	429,297	429,072	429,248	428,870	429,173	1,620
41	19,00	438,972	439,030	438,891	438,996	438,770	438,946	438,568	438,871	1,621
42	19,00	449,288	449,345	449,206	449,311	449,084	449,261	448,881	449,184	1,625
43	19,00	459,001	459,058	458,919	459,023	458,796	458,973	458,592	458,896	1,626
44	19,00	469,301	469,359	469,219	469,323	469,095	469,272	468,889	469,195	1,629
45	19,00	479,027	479,084	478,944	479,049	478,820	478,997	478,613	478,919	1,630
46	19,00	489,314	489,371	489,230	489,335	489,106	489,283	488,897	489,204	1,633
47	19,00	499,051	499,108	498,968	499,072	498,842	499,020	498,633	498,939	1,634
48	19,00	509,325	509,382	509,241	509,345	509,115	509,292	508,904	509,212	1,637
49	19,00	519,073	519,130	518,989	519,093	518,862	519,040	518,651	518,958	1,637
50	19,00	529,335	529,392	529,251	529,355	529,123	529,301	528,911	529,219	1,640
51	19,00	539,093	539,150	539,007	539,113	538,879	539,058	538,665	538,975	1,641
52	19,00	549,344	549,402	549,258	549,364	549,129	549,309	548,914	549,225	1,643
53	19,00	559,112	559,169	559,025	559,131	558,895	559,075	558,679	558,991	1,644
54	19,00	569,353	569,411	569,266	569,372	569,135	569,316	568,918	569,231	1,646
55	19,00	579,129	579,186	579,041	579,147	578,910	579,091	578,691	579,005	1,647
56	19,00	589,361	589,419	589,273	589,379	589,141	589,323	588,921	589,236	1,649
57	19,00	599,145	599,202	599,056	599,162	598,924	599,105	598,702	599,018	1,649
58	19,00	609,369	609,426	609,280	609,386	609,146	609,328	608,924	609,241	1,651
59	19,00	619,159	619,217	619,070	619,177	618,936	619,119	618,712	619,030	1,652
60	19,00	629,376	629,433	629,286	629,393	629,151	629,334	628,926	629,245	1,654
61	19,00	639,173	639,231	639,083	639,190	638,947	639,131	638,721	639,041	1,654
62	19,00	649,382	649,440	649,291	649,398	649,155	649,339	648,928	649,248	1,656
63	19,00	659,186	659,244	659,095	659,202	658,958	659,142	658,730	659,051	1,657
64	19,00	669,388	669,446	669,296	669,404	669,159	669,344	668,929	669,252	1,658
65	19,00	679,198	679,256	679,106	679,214	678,968	679,153	678,737	679,060	1,659
66	19,00	689,394	689,451	689,301	689,409	689,162	689,348	688,930	689,255	1,660
67	19,00	699,209	699,267	699,116	699,224	698,977	699,163	698,744	699,069	1,661
68	19,00	709,399	709,457	709,305	709,414	709,165	709,352	708,931	709,257	1,662
69	19,00	719,220	719,278	719,126	719,234	718,985	719,172	718,750	719,077	1,663
70	19,00	729,404	729,462	729,309	729,418	729,168	729,355	728,931	729,259	1,664
71	19,00	739,230	739,288	739,135	739,244	738,993	739,180	738,755	739,084	1,665
72	19,00	749,408	749,466	749,313	749,422	749,170	749,358	748,931	749,261	1,666
73	19,00	759,239	759,297	759,143	759,253	759,000	759,188	758,760	759,091	1,666
74	19,00	769,412	769,471	769,316	769,426	769,172	769,361	768,931	769,263	1,667
75	19,00	779,248	779,306	779,151	779,261	779,006	779,196	778,764	779,097	1,668
76	19,00	789,416	789,475	789,319	789,429	789,174	789,364	788,931	789,265	1,669
77	19,00	799,256	799,314	799,158	799,269	799,012	799,203	798,768	799,103	1,669
78	19,00	809,420	809,479	809,322	809,433	809,175	809,366	808,930	809,266	1,671
79	19,00	819,264	819,322	819,165	819,276	819,017	819,209	818,771	819,108	1,671
80	19,00	829,423	829,482	829,325	829,436	829,176	829,369	828,929	829,267	1,672
81	19,00	839,271	839,330	839,172	839,283	839,023	839,216	838,774	839,113	1,672
82	19,00	849,427	849,486	849,327	849,439	849,177	849,371	848,928	849,268	1,673
83	19,00	859,278	859,337	859,178	859,290	859,027	859,221	858,776	859,118	1,674
84	19,00	869,430	869,489	869,329	869,441	869,178	869,373	868,926	869,269	1,675
85	19,00	879,284	879,344	879,183	879,296	879,031	879,227	878,779	879,122	1,675
86	19,00	889,433	889,492	889,331	889,444	889,179	889,374	888,925	889,269	1,676
87	19,00	899,290	899,350	899,188	899,302	899,035	899,232	898,780	899,126	1,676
88	19,00	909,435	909,495	909,333	909,446	909,179	909,376	908,923	909,270	1,677
89	19,00	919,296	919,356	919,193	919,307	919,039	919,237	918,782	919,130	1,677
90	19,00	929,438	929,498	929,334	929,448	929,179	929,377	928,921	929,270	1,678
91	19,00	939,302	939,362	939,198	939,312	939,042	939,241	938,783	939,133	1,679
92	19,00	949,440	949,500	949,336	949,450	949,179	949,379	948,919	949,270	1,679
93	19,00	959,307	959,367	959,202	959,317	959,045	959,245	958,784	959,136	1,680
94	19,00	969,442	969,503	969,337	969,452	969,179	969,380	968,917	969,270	1,680
95	19,00	979,312	979,372	979,206	979,322	979,048	979,249	978,784	979,139	1,681
96	19,00	989,444	989,505	989,338	989,454	989,179	989,381	988,914	989,270	1,682
97	19,00	999,317	999,377	999,210	999,326	999,051	999,253	998,785	999,141	1,682
98	19,00	1009,446	1009,507	1009,339	1009,456	1009,179	1009,382	1008,912	1009,270	1,682
99	19,00	1019,321	1019,382	1019,214	1019,331	1019,053	1019,256	1018,785	1019,144	1,683
100	19,00	1029,448	1029,509	1029,340	1029,457	1029,179	1029,383	1028,909	1029,270	1,683

5.15 37,5° pressure angle, module 0,5

Table 57 — Geometry internal spline, $\alpha = 37{,}5$, $m = 0{,}5$, fillet root, $E_{v\,min} = 0{,}785$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	3,00	2,3801	3,82	3,55	2,65	0,808	0,822	0,843	0,878
7	3,50	2,7767	4,32	4,05	3,14	0,809	0,823	0,844	0,879
8	4,00	3,1734	4,82	4,55	3,62	0,809	0,823	0,845	0,880
9	4,50	3,5701	5,33	5,05	4,11	0,809	0,824	0,845	0,881
10	5,00	3,9668	5,83	5,55	4,61	0,809	0,824	0,846	0,883
11	5,50	4,3634	6,33	6,05	5,10	0,810	0,824	0,847	0,884
12	6,00	4,7601	6,83	6,55	5,60	0,810	0,825	0,847	0,884
13	6,50	5,1568	7,33	7,05	6,09	0,810	0,825	0,848	0,885
14	7,00	5,5535	7,83	7,55	6,59	0,810	0,826	0,848	0,886
15	7,50	5,9502	8,33	8,05	7,09	0,811	0,826	0,849	0,887
16	8,00	6,3468	8,83	8,55	7,58	0,811	0,826	0,849	0,888
17	8,50	6,7435	9,34	9,05	8,08	0,811	0,826	0,850	0,889
18	9,00	7,1402	9,84	9,55	8,58	0,811	0,827	0,850	0,889
19	9,50	7,5369	10,34	10,05	9,08	0,811	0,827	0,851	0,890
20	10,00	7,9335	10,84	10,55	9,58	0,811	0,827	0,851	0,891
21	10,50	8,3302	11,34	11,05	10,08	0,812	0,828	0,851	0,891
22	11,00	8,7269	11,84	11,55	10,57	0,812	0,828	0,852	0,892
23	11,50	9,1236	12,34	12,05	11,07	0,812	0,828	0,852	0,893
24	12,00	9,5202	12,84	12,55	11,57	0,812	0,828	0,853	0,893
25	12,50	9,9169	13,34	13,05	12,07	0,812	0,829	0,853	0,894
26	13,00	10,3136	13,84	13,55	12,57	0,812	0,829	0,853	0,894
27	13,50	10,7103	14,34	14,05	13,07	0,812	0,829	0,854	0,895
28	14,00	11,1069	14,84	14,55	13,57	0,813	0,829	0,854	0,895
29	14,50	11,5036	15,34	15,05	14,07	0,813	0,829	0,854	0,896
30	15,00	11,9003	15,85	15,55	14,57	0,813	0,830	0,855	0,897
31	15,50	12,2970	16,35	16,05	15,07	0,813	0,830	0,855	0,897
32	16,00	12,6937	16,85	16,55	15,57	0,813	0,830	0,855	0,898
33	16,50	13,0903	17,35	17,05	16,07	0,813	0,830	0,856	0,898
34	17,00	13,4870	17,85	17,55	16,57	0,813	0,830	0,856	0,899
35	17,50	13,8837	18,35	18,05	17,07	0,813	0,831	0,856	0,899
36	18,00	14,2804	18,85	18,55	17,56	0,814	0,831	0,857	0,899
37	18,50	14,6770	19,35	19,05	18,06	0,814	0,831	0,857	0,900
38	19,00	15,0737	19,85	19,55	18,56	0,814	0,831	0,857	0,900
39	19,50	15,4704	20,35	20,05	19,06	0,814	0,831	0,857	0,901
40	20,00	15,8671	20,85	20,55	19,56	0,814	0,831	0,858	0,901
41	20,50	16,2637	21,35	21,05	20,06	0,814	0,832	0,858	0,902
42	21,00	16,6604	21,85	21,55	20,56	0,814	0,832	0,858	0,902
43	21,50	17,0571	22,35	22,05	21,06	0,814	0,832	0,858	0,902
44	22,00	17,4538	22,85	22,55	21,56	0,814	0,832	0,859	0,903
45	22,50	17,8505	23,35	23,05	22,06	0,815	0,832	0,859	0,903
46	23,00	18,2471	23,85	23,55	22,56	0,815	0,832	0,859	0,904
47	23,50	18,6438	24,36	24,05	23,06	0,815	0,833	0,859	0,904
48	24,00	19,0405	24,86	24,55	23,56	0,815	0,833	0,860	0,904
49	24,50	19,4372	25,36	25,05	24,06	0,815	0,833	0,860	0,905
50	25,00	19,8338	25,86	25,55	24,56	0,815	0,833	0,860	0,905
51	25,50	20,2305	26,36	26,05	25,06	0,815	0,833	0,860	0,906
52	26,00	20,6272	26,86	26,55	25,56	0,815	0,833	0,861	0,906
53	26,50	21,0239	27,36	27,05	26,06	0,815	0,834	0,861	0,906
54	27,00	21,4205	27,86	27,55	26,56	0,815	0,834	0,861	0,907
55	27,50	21,8172	28,36	28,05	27,06	0,815	0,834	0,861	0,907
56	28,00	22,2139	28,86	28,55	27,56	0,816	0,834	0,861	0,907
57	28,50	22,6106	29,36	29,05	28,06	0,816	0,834	0,862	0,908
58	29,00	23,0072	29,86	29,55	28,56	0,816	0,834	0,862	0,908
59	29,50	23,4039	30,36	30,05	29,06	0,816	0,834	0,862	0,908
60	30,00	23,8006	30,86	30,55	29,56	0,816	0,834	0,862	0,909
61	30,50	24,1973	31,36	31,05	30,06	0,816	0,835	0,863	0,909
62	31,00	24,5940	31,86	31,55	30,56	0,816	0,835	0,863	0,909
63	31,50	24,9906	32,36	32,05	31,06	0,816	0,835	0,863	0,910
64	32,00	25,3873	32,86	32,55	31,56	0,816	0,835	0,863	0,910
65	32,50	25,7840	33,36	33,05	32,06	0,816	0,835	0,863	0,910
66	33,00	26,1807	33,86	33,55	32,56	0,816	0,835	0,863	0,911
67	33,50	26,5773	34,36	34,05	33,06	0,816	0,835	0,864	0,911
68	34,00	26,9740	34,86	34,55	33,56	0,817	0,835	0,864	0,911
69	34,50	27,3707	35,36	35,05	34,06	0,817	0,836	0,864	0,912
70	35,00	27,7674	35,87	35,55	34,56	0,817	0,836	0,864	0,912
71	35,50	28,1640	36,37	36,05	35,06	0,817	0,836	0,864	0,912
72	36,00	28,5607	36,87	36,55	35,56	0,817	0,836	0,865	0,912
73	36,50	28,9574	37,37	37,05	36,06	0,817	0,836	0,865	0,913
74	37,00	29,3541	37,87	37,55	36,56	0,817	0,836	0,865	0,913
75	37,50	29,7508	38,37	38,05	37,06	0,817	0,836	0,865	0,913
76	38,00	30,1474	38,87	38,55	37,56	0,817	0,836	0,865	0,914
77	38,50	30,5441	39,37	39,05	38,06	0,817	0,837	0,866	0,914
78	39,00	30,9408	39,87	39,55	38,56	0,817	0,837	0,866	0,914
79	39,50	31,3375	40,37	40,05	39,06	0,817	0,837	0,866	0,914
80	40,00	31,7341	40,87	40,55	39,56	0,817	0,837	0,866	0,915
81	40,50	32,1308	41,37	41,05	40,06	0,817	0,837	0,866	0,915
82	41,00	32,5275	41,87	41,55	40,56	0,818	0,837	0,866	0,915
83	41,50	32,9242	42,37	42,05	41,06	0,818	0,837	0,867	0,916
84	42,00	33,3208	42,87	42,55	41,56	0,818	0,837	0,867	0,916
85	42,50	33,7175	43,37	43,05	42,06	0,818	0,837	0,867	0,916
86	43,00	34,1142	43,87	43,55	42,56	0,818	0,838	0,867	0,916
87	43,50	34,5109	44,37	44,05	43,06	0,818	0,838	0,867	0,917
88	44,00	34,9075	44,87	44,55	43,56	0,818	0,838	0,867	0,917
89	44,50	35,3042	45,37	45,05	44,06	0,818	0,838	0,868	0,917
90	45,00	35,7009	45,87	45,55	44,56	0,818	0,838	0,868	0,917
91	45,50	36,0976	46,37	46,05	45,06	0,818	0,838	0,868	0,918
92	46,00	36,4943	46,87	46,55	45,56	0,818	0,838	0,868	0,918
93	46,50	36,8909	47,37	47,05	46,06	0,818	0,838	0,868	0,918
94	47,00	37,2876	47,87	47,55	46,56	0,818	0,838	0,868	0,918
95	47,50	37,6843	48,37	48,05	47,06	0,818	0,838	0,869	0,919
96	48,00	38,0810	48,87	48,55	47,56	0,818	0,839	0,869	0,919
97	48,50	38,4776	49,37	49,05	48,06	0,819	0,839	0,869	0,919
98	49,00	38,8743	49,88	49,55	48,56	0,819	0,839	0,869	0,919
99	49,50	39,2710	50,38	50,05	49,06	0,819	0,839	0,869	0,920
100	50,00	39,6677	50,88	50,55	49,56	0,819	0,839	0,869	0,920

Table 58 — Geometry external spline, $\alpha = 37{,}5$, $m = 0{,}5$, fillet root, $S_{v\,max} = 0{,}785$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	3,00	2,3801	3,45	2,55	2,18	0,762	0,748	0,727	0,692
7	3,50	2,7767	3,95	3,04	2,68	0,761	0,747	0,726	0,691
8	4,00	3,1734	4,45	3,52	3,18	0,761	0,747	0,725	0,690
9	4,50	3,5701	4,95	4,01	3,67	0,761	0,746	0,725	0,689
10	5,00	3,9668	5,45	4,51	4,17	0,761	0,746	0,724	0,687
11	5,50	4,3634	5,95	5,00	4,67	0,760	0,746	0,723	0,686
12	6,00	4,7601	6,45	5,50	5,17	0,760	0,745	0,723	0,686
13	6,50	5,1568	6,95	5,99	5,67	0,760	0,745	0,722	0,685
14	7,00	5,5535	7,45	6,49	6,17	0,760	0,744	0,722	0,684
15	7,50	5,9502	7,95	6,99	6,67	0,759	0,744	0,721	0,683
16	8,00	6,3468	8,45	7,48	7,17	0,759	0,744	0,721	0,682
17	8,50	6,7435	8,95	7,98	7,66	0,759	0,744	0,720	0,681
18	9,00	7,1402	9,45	8,48	8,16	0,759	0,743	0,720	0,681
19	9,50	7,5369	9,95	8,98	8,66	0,759	0,743	0,719	0,680
20	10,00	7,9335	10,45	9,48	9,16	0,759	0,743	0,719	0,679
21	10,50	8,3302	10,95	9,98	9,66	0,758	0,742	0,719	0,679
22	11,00	8,7269	11,45	10,47	10,16	0,758	0,742	0,718	0,678
23	11,50	9,1236	11,95	10,97	10,66	0,758	0,742	0,718	0,677
24	12,00	9,5202	12,45	11,47	11,16	0,758	0,742	0,717	0,677
25	12,50	9,9169	12,95	11,97	11,66	0,758	0,741	0,717	0,676
26	13,00	10,3136	13,45	12,47	12,16	0,758	0,741	0,717	0,676
27	13,50	10,7103	13,95	12,97	12,66	0,758	0,741	0,716	0,675
28	14,00	11,1069	14,45	13,47	13,16	0,757	0,741	0,716	0,675
29	14,50	11,5036	14,95	13,97	13,66	0,757	0,741	0,716	0,674
30	15,00	11,9003	15,45	14,47	14,15	0,757	0,740	0,715	0,673
31	15,50	12,2970	15,95	14,97	14,65	0,757	0,740	0,715	0,673
32	16,00	12,6937	16,45	15,47	15,15	0,757	0,740	0,715	0,672
33	16,50	13,0903	16,95	15,97	15,65	0,757	0,740	0,714	0,672
34	17,00	13,4870	17,45	16,47	16,15	0,757	0,740	0,714	0,671
35	17,50	13,8837	17,95	16,97	16,65	0,757	0,739	0,714	0,671
36	18,00	14,2804	18,45	17,46	17,15	0,756	0,739	0,713	0,671
37	18,50	14,6770	18,95	17,96	17,65	0,756	0,739	0,713	0,670
38	19,00	15,0737	19,45	18,46	18,15	0,756	0,739	0,713	0,670
39	19,50	15,4704	19,95	18,96	18,65	0,756	0,739	0,713	0,669
40	20,00	15,8671	20,45	19,46	19,15	0,756	0,739	0,712	0,669
41	20,50	16,2637	20,95	19,96	19,65	0,756	0,738	0,712	0,668
42	21,00	16,6604	21,45	20,46	20,15	0,756	0,738	0,712	0,668
43	21,50	17,0571	21,95	20,96	20,65	0,756	0,738	0,712	0,668
44	22,00	17,4538	22,45	21,46	21,15	0,756	0,738	0,711	0,667
45	22,50	17,8505	22,95	21,96	21,65	0,755	0,738	0,711	0,667
46	23,00	18,2471	23,45	22,46	22,15	0,755	0,738	0,711	0,666
47	23,50	18,6438	23,95	22,96	22,64	0,755	0,737	0,711	0,666
48	24,00	19,0405	24,45	23,46	23,14	0,755	0,737	0,710	0,666
49	24,50	19,4372	24,95	23,96	23,64	0,755	0,737	0,710	0,665
50	25,00	19,8338	25,45	24,46	24,14	0,755	0,737	0,710	0,665
51	25,50	20,2305	25,95	24,96	24,64	0,755	0,737	0,710	0,664
52	26,00	20,6272	26,45	25,46	25,14	0,755	0,737	0,709	0,664
53	26,50	21,0239	26,95	25,96	25,64	0,755	0,736	0,709	0,664
54	27,00	21,4205	27,45	26,46	26,14	0,755	0,736	0,709	0,663
55	27,50	21,8172	27,95	26,96	26,64	0,755	0,736	0,709	0,663
56	28,00	22,2139	28,45	27,46	27,14	0,754	0,736	0,709	0,663
57	28,50	22,6106	28,95	27,96	27,64	0,754	0,736	0,708	0,662
58	29,00	23,0072	29,45	28,46	28,14	0,754	0,736	0,708	0,662
59	29,50	23,4039	29,95	28,96	28,64	0,754	0,736	0,708	0,662
60	30,00	23,8006	30,45	29,46	29,14	0,754	0,736	0,708	0,661
61	30,50	24,1973	30,95	29,96	29,64	0,754	0,735	0,707	0,661
62	31,00	24,5940	31,45	30,46	30,14	0,754	0,735	0,707	0,661
63	31,50	24,9906	31,95	30,96	30,64	0,754	0,735	0,707	0,660
64	32,00	25,3873	32,45	31,46	31,14	0,754	0,735	0,707	0,660
65	32,50	25,7840	32,95	31,96	31,64	0,754	0,735	0,707	0,660
66	33,00	26,1807	33,45	32,46	32,14	0,754	0,735	0,707	0,659
67	33,50	26,5773	33,95	32,96	32,64	0,754	0,735	0,706	0,659
68	34,00	26,9740	34,45	33,46	33,14	0,753	0,735	0,706	0,659
69	34,50	27,3707	34,95	33,96	33,64	0,753	0,734	0,706	0,658
70	35,00	27,7674	35,45	34,46	34,13	0,753	0,734	0,706	0,658
71	35,50	28,1640	35,95	34,96	34,63	0,753	0,734	0,706	0,658
72	36,00	28,5607	36,45	35,46	35,13	0,753	0,734	0,705	0,658
73	36,50	28,9574	36,95	35,96	35,63	0,753	0,734	0,705	0,657
74	37,00	29,3541	37,45	36,46	36,13	0,753	0,734	0,705	0,657
75	37,50	29,7508	37,95	36,96	36,63	0,753	0,734	0,705	0,657
76	38,00	30,1474	38,45	37,46	37,13	0,753	0,734	0,705	0,656
77	38,50	30,5441	38,95	37,96	37,63	0,753	0,733	0,704	0,656
78	39,00	30,9408	39,45	38,46	38,13	0,753	0,733	0,704	0,656
79	39,50	31,3375	39,95	38,96	38,63	0,753	0,733	0,704	0,656
80	40,00	31,7341	40,45	39,46	39,13	0,753	0,733	0,704	0,655
81	40,50	32,1308	40,95	39,96	39,63	0,753	0,733	0,704	0,655
82	41,00	32,5275	41,45	40,46	40,13	0,752	0,733	0,704	0,655
83	41,50	32,9242	41,95	40,96	40,63	0,752	0,733	0,703	0,654
84	42,00	33,3208	42,45	41,46	41,13	0,752	0,733	0,703	0,654
85	42,50	33,7175	42,95	41,96	41,63	0,752	0,733	0,703	0,654
86	43,00	34,1142	43,45	42,46	42,13	0,752	0,732	0,703	0,654
87	43,50	34,5109	43,95	42,96	42,63	0,752	0,732	0,703	0,653
88	44,00	34,9075	44,45	43,46	43,13	0,752	0,732	0,703	0,653
89	44,50	35,3042	44,95	43,96	43,63	0,752	0,732	0,702	0,653
90	45,00	35,7009	45,45	44,46	44,13	0,752	0,732	0,702	0,653
91	45,50	36,0976	45,95	44,96	44,63	0,752	0,732	0,702	0,652
92	46,00	36,4943	46,45	45,46	45,13	0,752	0,732	0,702	0,652
93	46,50	36,8909	46,95	45,96	45,63	0,752	0,732	0,702	0,652
94	47,00	37,2876	47,45	46,46	46,13	0,752	0,732	0,702	0,652
95	47,50	37,6843	47,95	46,96	46,63	0,752	0,732	0,701	0,651
96	48,00	38,0810	48,45	47,46	47,13	0,752	0,731	0,701	0,651
97	48,50	38,4776	48,95	47,96	47,63	0,751	0,731	0,701	0,651
98	49,00	38,8743	49,45	48,46	48,12	0,751	0,731	0,701	0,651
99	49,50	39,2710	49,95	48,96	48,62	0,751	0,731	0,701	0,650
100	50,00	39,6677	50,45	49,46	49,12	0,751	0,731	0,701	0,650

Table 59 — Inspection dimensions internal spline, $\alpha = 37{,}5$, $m = 0{,}5$, $E_{v\,min} = 0{,}785$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	0,85	1,722	1,749	1,732	1,775	1,746	1,813	1,769	1,872	1,634
7	0,90	1,990	2,018	2,000	2,046	2,016	2,086	2,040	2,148	1,683
8	0,90	2,588	2,613	2,597	2,639	2,611	2,677	2,633	2,736	1,625
9	0,90	3,041	3,064	3,050	3,088	3,062	3,123	3,082	3,180	1,540
10	0,90	3,611	3,633	3,619	3,657	3,632	3,692	3,651	3,749	1,522
11	0,90	4,066	4,088	4,075	4,111	4,086	4,145	4,106	4,200	1,476
12	0,95	4,471	4,494	4,480	4,518	4,492	4,554	4,512	4,612	1,534
13	0,95	4,935	4,956	4,943	4,980	4,955	5,015	4,975	5,072	1,495
14	0,95	5,483	5,505	5,491	5,528	5,503	5,563	5,523	5,620	1,485
15	0,95	5,949	5,971	5,958	5,994	5,969	6,028	5,989	6,085	1,459
16	0,95	6,491	6,512	6,499	6,535	6,511	6,570	6,530	6,626	1,453
17	0,95	6,960	6,981	6,968	7,004	6,980	7,038	6,999	7,094	1,435
18	0,95	7,497	7,517	7,505	7,540	7,517	7,575	7,536	7,631	1,430
19	0,95	7,968	7,989	7,977	8,012	7,988	8,046	8,007	8,102	1,417
20	0,95	8,501	8,522	8,509	8,545	8,521	8,579	8,540	8,635	1,414
21	0,95	8,975	8,995	8,983	9,018	8,995	9,052	9,014	9,109	1,403
22	0,95	9,504	9,525	9,513	9,548	9,524	9,582	9,544	9,639	1,401
23	0,95	9,980	10,001	9,989	10,024	10,000	10,058	10,019	10,114	1,392
24	0,95	10,507	10,528	10,515	10,551	10,527	10,585	10,547	10,642	1,391
25	0,95	10,985	11,005	10,993	11,028	11,005	11,062	11,024	11,119	1,384
26	0,95	11,509	11,530	11,518	11,553	11,530	11,587	11,549	11,644	1,382
27	0,95	11,989	12,009	11,997	12,032	12,009	12,066	12,028	12,123	1,376
28	1,00	12,372	12,393	12,381	12,416	12,393	12,451	12,413	12,509	1,394
29	1,00	12,853	12,874	12,862	12,897	12,874	12,932	12,894	12,990	1,388
30	1,00	13,375	13,395	13,383	13,419	13,396	13,454	13,415	13,512	1,386
31	1,00	13,857	13,877	13,865	13,901	13,878	13,936	13,897	13,994	1,381
32	1,00	14,377	14,397	14,385	14,421	14,398	14,456	14,418	14,514	1,380
33	1,00	14,860	14,880	14,868	14,904	14,881	14,939	14,901	14,997	1,375
34	1,00	15,378	15,399	15,387	15,422	15,400	15,458	15,420	15,517	1,374
35	1,00	15,862	15,882	15,871	15,906	15,884	15,942	15,903	16,000	1,371
36	1,00	16,380	16,400	16,389	16,424	16,401	16,460	16,421	16,519	1,370
37	1,00	16,865	16,885	16,874	16,909	16,886	16,944	16,906	17,003	1,366
38	1,00	17,381	17,402	17,390	17,426	17,403	17,461	17,423	17,520	1,365
39	1,00	17,867	17,887	17,876	17,911	17,888	17,947	17,909	18,006	1,362
40	1,00	18,383	18,403	18,392	18,427	18,404	18,463	18,425	18,522	1,362
41	1,00	18,869	18,889	18,878	18,913	18,890	18,949	18,911	19,008	1,359
42	1,00	19,384	19,404	19,393	19,428	19,406	19,464	19,426	19,524	1,358
43	1,00	19,870	19,891	19,880	19,915	19,892	19,951	19,913	20,011	1,356
44	1,00	20,385	20,405	20,394	20,429	20,407	20,465	20,428	20,525	1,356
45	1,00	20,872	20,892	20,881	20,916	20,894	20,953	20,915	21,013	1,353
46	1,00	21,386	21,406	21,395	21,430	21,408	21,467	21,429	21,527	1,353
47	1,00	21,874	21,894	21,883	21,918	21,896	21,954	21,917	22,015	1,351
48	1,00	22,387	22,407	22,396	22,431	22,409	22,468	22,430	22,528	1,350
49	1,00	22,875	22,895	22,884	22,919	22,897	22,956	22,918	23,017	1,349
50	1,00	23,388	23,408	23,397	23,432	23,410	23,469	23,431	23,530	1,348
51	1,00	23,876	23,896	23,886	23,921	23,899	23,958	23,920	24,019	1,347
52	1,00	24,388	24,408	24,398	24,433	24,411	24,470	24,432	24,531	1,346
53	1,00	24,877	24,897	24,887	24,922	24,900	24,959	24,921	25,020	1,345
54	1,00	25,389	25,409	25,399	25,434	25,412	25,471	25,433	25,532	1,344
55	1,00	25,879	25,898	25,888	25,923	25,902	25,960	25,923	26,022	1,343
56	1,00	26,390	26,410	26,399	26,435	26,413	26,472	26,434	26,534	1,343
57	1,00	26,880	26,900	26,889	26,924	26,903	26,962	26,924	27,023	1,341
58	1,00	27,391	27,410	27,400	27,435	27,414	27,473	27,435	27,535	1,341
59	1,00	27,881	27,900	27,890	27,925	27,904	27,963	27,926	28,025	1,340
60	1,00	28,391	28,411	28,401	28,436	28,415	28,474	28,436	28,536	1,340
61	1,00	28,882	28,901	28,891	28,926	28,905	28,964	28,927	29,026	1,339
62	1,00	29,392	29,412	29,402	29,437	29,415	29,474	29,437	29,537	1,338
63	1,00	29,882	29,902	29,892	29,927	29,906	29,965	29,928	30,028	1,337
64	1,00	30,392	30,412	30,402	30,437	30,416	30,475	30,438	30,538	1,337
65	1,00	30,883	30,903	30,893	30,928	30,907	30,966	30,929	31,029	1,336
66	1,00	31,393	31,413	31,403	31,438	31,417	31,476	31,439	31,539	1,336
67	1,00	31,884	31,904	31,894	31,929	31,908	31,967	31,930	32,030	1,335
68	1,00	32,393	32,413	32,403	32,439	32,417	32,477	32,440	32,540	1,335
69	1,00	32,885	32,905	32,895	32,930	32,909	32,968	32,931	33,032	1,334
70	1,00	33,394	33,414	33,404	33,439	33,418	33,477	33,441	33,541	1,334
71	1,00	33,886	33,905	33,896	33,931	33,910	33,969	33,932	34,033	1,333
72	1,00	34,394	34,414	34,404	34,440	34,419	34,478	34,441	34,542	1,333
73	1,00	34,886	34,906	34,896	34,932	34,911	34,970	34,933	35,034	1,332
74	1,00	35,395	35,415	35,405	35,440	35,419	35,479	35,442	35,543	1,332
75	1,00	35,887	35,907	35,897	35,932	35,912	35,971	35,934	36,035	1,331
76	1,00	36,395	36,415	36,406	36,441	36,420	36,479	36,443	36,544	1,331
77	1,00	36,888	36,907	36,898	36,933	36,912	36,972	36,935	37,036	1,330
78	1,00	37,396	37,415	37,406	37,441	37,421	37,480	37,443	37,545	1,330
79	1,00	37,888	37,908	37,899	37,934	37,913	37,973	37,936	38,037	1,330
80	1,00	38,396	38,416	38,406	38,442	38,421	38,481	38,444	38,545	1,330
81	1,00	38,889	38,908	38,899	38,934	38,914	38,973	38,937	39,038	1,329
82	1,00	39,396	39,416	39,407	39,442	39,422	39,481	39,445	39,546	1,329
83	1,00	39,889	39,909	39,900	39,935	39,915	39,974	39,938	40,039	1,328
84	1,00	40,397	40,416	40,407	40,443	40,422	40,482	40,446	40,547	1,328
85	1,00	40,890	40,909	40,900	40,936	40,915	40,975	40,939	41,040	1,328
86	1,00	41,397	41,417	41,408	41,443	41,423	41,482	41,446	41,548	1,328
87	1,00	41,890	41,910	41,901	41,936	41,916	41,976	41,940	42,041	1,327
88	1,00	42,398	42,417	42,408	42,444	42,423	42,483	42,447	42,549	1,327
89	1,00	42,891	42,910	42,902	42,937	42,917	42,976	42,940	43,042	1,326
90	1,00	43,398	43,417	43,409	43,444	43,424	43,484	43,447	43,550	1,326
91	1,00	43,891	43,911	43,902	43,937	43,917	43,977	43,941	44,043	1,326
92	1,00	44,398	44,418	44,409	44,444	44,424	44,484	44,448	44,550	1,326
93	1,00	44,892	44,911	44,903	44,938	44,918	44,978	44,942	45,044	1,325
94	1,00	45,399	45,418	45,409	45,445	45,425	45,485	45,449	45,551	1,325
95	1,00	45,892	45,912	45,903	45,939	45,919	45,978	45,943	46,045	1,325
96	1,00	46,399	46,418	46,410	46,445	46,425	46,485	46,449	46,552	1,325
97	1,00	46,893	46,912	46,904	46,939	46,919	46,979	46,943	47,046	1,324
98	1,00	47,399	47,419	47,410	47,445	47,426	47,486	47,450	47,552	1,324
99	1,00	47,893	47,913	47,904	47,940	47,920	47,980	47,944	48,047	1,324
100	1,00	48,400	48,419	48,411	48,446	48,426	48,486	48,451	48,553	1,324

Table 60 — Inspection dimensions external spline, $\alpha = 37{,}5$, $m = 0{,}5$, $S_{v\,max} = 0{,}785$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	1,32	5,263	5,276	5,249	5,271	5,228	5,264	5,193	5,252	1,006
7	1,25	5,507	5,520	5,492	5,515	5,471	5,508	5,435	5,496	1,014
8	1,25	6,126	6,140	6,111	6,135	6,088	6,127	6,051	6,115	1,057
9	1,18	6,390	6,404	6,374	6,399	6,351	6,391	6,313	6,378	1,072
10	1,18	6,976	6,991	6,960	6,985	6,936	6,977	6,896	6,964	1,102
11	1,18	7,417	7,432	7,401	7,426	7,377	7,418	7,336	7,405	1,102
12	1,12	7,842	7,857	7,825	7,851	7,799	7,843	7,757	7,829	1,138
13	1,12	8,292	8,308	8,275	8,302	8,250	8,293	8,207	8,279	1,139
14	1,12	8,848	8,864	8,830	8,857	8,804	8,849	8,761	8,834	1,155
15	1,12	9,305	9,321	9,288	9,315	9,261	9,306	9,217	9,292	1,156
16	1,12	9,853	9,869	9,835	9,863	9,808	9,854	9,763	9,839	1,169
17	1,12	10,315	10,332	10,297	10,325	10,270	10,316	10,225	10,301	1,170
18	1,12	10,857	10,873	10,838	10,867	10,811	10,857	10,765	10,842	1,180
19	1,06	11,175	11,191	11,156	11,185	11,128	11,175	11,081	11,160	1,194
20	1,06	11,711	11,727	11,692	11,721	11,663	11,711	11,616	11,695	1,203
21	1,06	12,180	12,197	12,161	12,191	12,133	12,181	12,085	12,165	1,203
22	1,06	12,713	12,730	12,693	12,723	12,665	12,713	12,616	12,697	1,210
23	1,06	13,185	13,202	13,166	13,195	13,137	13,185	13,088	13,169	1,211
24	1,06	13,714	13,732	13,695	13,725	13,665	13,715	13,616	13,698	1,217
25	1,06	14,189	14,207	14,170	14,199	14,140	14,189	14,090	14,173	1,217
26	1,06	14,716	14,733	14,696	14,726	14,666	14,716	14,616	14,699	1,222
27	1,06	15,193	15,210	15,173	15,203	15,143	15,193	15,092	15,176	1,223
28	1,06	15,717	15,735	15,697	15,727	15,667	15,717	15,616	15,700	1,227
29	1,06	16,196	16,213	16,175	16,206	16,145	16,195	16,094	16,178	1,228
30	1,06	16,718	16,736	16,698	16,729	16,667	16,718	16,616	16,701	1,232
31	1,06	17,198	17,216	17,178	17,208	17,147	17,198	17,095	17,180	1,232
32	1,06	17,719	17,737	17,699	17,729	17,668	17,719	17,615	17,701	1,236
33	1,06	18,200	18,218	18,180	18,210	18,148	18,200	18,096	18,182	1,236
34	1,06	18,720	18,738	18,699	18,730	18,668	18,719	18,615	18,702	1,239
35	1,06	19,202	19,220	19,181	19,212	19,150	19,201	19,097	19,184	1,240
36	1,06	19,721	19,739	19,700	19,731	19,668	19,720	19,615	19,702	1,243
37	1,06	20,204	20,222	20,183	20,214	20,151	20,203	20,097	20,185	1,243
38	1,06	20,722	20,740	20,700	20,732	20,668	20,720	20,614	20,702	1,245
39	1,06	21,205	21,224	21,184	21,216	21,152	21,204	21,098	21,186	1,246
40	1,06	21,722	21,740	21,701	21,732	21,668	21,721	21,614	21,702	1,248
41	1,06	22,207	22,225	22,185	22,217	22,153	22,205	22,098	22,187	1,248
42	1,06	22,723	22,741	22,701	22,733	22,668	22,721	22,613	22,703	1,251
43	1,06	23,208	23,226	23,186	23,218	23,153	23,206	23,098	23,188	1,251
44	1,06	23,723	23,741	23,701	23,733	23,668	23,721	23,613	23,703	1,253
45	1,06	24,209	24,227	24,187	24,219	24,154	24,207	24,098	24,188	1,253
46	1,06	24,723	24,742	24,701	24,733	24,668	24,721	24,612	24,703	1,255
47	1,06	25,210	25,228	25,188	25,220	25,154	25,208	25,098	25,189	1,255
48	1,06	25,724	25,742	25,701	25,734	25,668	25,722	25,612	25,703	1,257
49	1,06	26,211	26,229	26,189	26,221	26,155	26,209	26,098	26,190	1,257
50	1,06	26,724	26,742	26,702	26,734	26,668	26,722	26,611	26,702	1,258
51	1,06	27,212	27,230	27,189	27,222	27,155	27,209	27,098	27,190	1,259
52	1,06	27,724	27,743	27,702	27,734	27,668	27,722	27,611	27,702	1,260
53	1,06	28,213	28,231	28,190	28,222	28,156	28,210	28,098	28,190	1,260
54	1,06	28,725	28,743	28,702	28,734	28,667	28,722	28,610	28,702	1,262
55	1,06	29,213	29,232	29,190	29,223	29,156	29,210	29,098	29,191	1,262
56	1,06	29,725	29,743	29,702	29,734	29,667	29,722	29,609	29,702	1,263
57	1,06	30,214	30,232	30,191	30,223	30,156	30,211	30,098	30,191	1,263
58	1,06	30,725	30,744	30,702	30,735	30,667	30,722	30,609	30,702	1,264
59	1,06	31,215	31,233	31,191	31,224	31,156	31,211	31,098	31,191	1,264
60	1,06	31,725	31,744	31,702	31,735	31,667	31,722	31,608	31,702	1,266
61	1,06	32,215	32,234	32,192	32,224	32,156	32,212	32,098	32,191	1,266
62	1,06	32,725	32,744	32,702	32,735	32,667	32,722	32,608	32,702	1,267
63	1,06	33,216	33,234	33,192	33,225	33,157	33,212	33,097	33,191	1,267
64	1,06	33,726	33,744	33,702	33,735	33,666	33,722	33,607	33,701	1,268
65	1,06	34,216	34,234	34,192	34,225	34,157	34,212	34,097	34,192	1,268
66	1,06	34,726	34,744	34,702	34,735	34,666	34,722	34,606	34,701	1,269
67	1,06	35,216	35,235	35,193	35,226	35,157	35,212	35,097	35,192	1,269
68	1,06	35,726	35,744	35,702	35,735	35,666	35,722	35,606	35,701	1,270
69	1,06	36,217	36,235	36,193	36,226	36,157	36,213	36,097	36,192	1,270
70	1,06	36,726	36,744	36,702	36,735	36,666	36,722	36,605	36,701	1,271
71	1,06	37,217	37,236	37,193	37,226	37,157	37,213	37,096	37,192	1,271
72	1,06	37,726	37,745	37,702	37,735	37,665	37,722	37,605	37,700	1,272
73	1,06	38,217	38,236	38,193	38,226	38,157	38,213	38,096	38,192	1,272
74	1,06	38,726	38,745	38,702	38,735	38,665	38,721	38,604	38,700	1,272
75	1,06	39,218	39,236	39,193	39,227	39,157	39,213	39,096	39,192	1,273
76	1,06	39,726	39,745	39,702	39,735	39,665	39,721	39,604	39,700	1,273
77	1,06	40,218	40,237	40,194	40,227	40,157	40,213	40,095	40,191	1,273
78	1,06	40,726	40,745	40,702	40,735	40,665	40,721	40,603	40,699	1,274
79	1,06	41,218	41,237	41,194	41,227	41,157	41,213	41,095	41,191	1,274
80	1,06	41,726	41,745	41,702	41,735	41,664	41,721	41,603	41,699	1,275
81	1,06	42,219	42,237	42,194	42,227	42,157	42,213	42,095	42,191	1,275
82	1,06	42,726	42,745	42,701	42,735	42,664	42,721	42,602	42,699	1,275
83	1,06	43,219	43,237	43,194	43,227	43,157	43,213	43,094	43,191	1,276
84	1,06	43,726	43,745	43,701	43,735	43,664	43,721	43,601	43,699	1,276
85	1,06	44,219	44,238	44,194	44,228	44,156	44,213	44,094	44,191	1,276
86	1,06	44,726	44,745	44,701	44,735	44,664	44,721	44,601	44,698	1,277
87	1,06	45,219	45,238	45,194	45,228	45,156	45,213	45,093	45,191	1,277
88	1,06	45,726	45,745	45,701	45,735	45,663	45,720	45,600	45,698	1,277
89	1,06	46,219	46,238	46,194	46,228	46,156	46,213	46,093	46,191	1,277
90	1,06	46,726	46,745	46,701	46,735	46,663	46,720	46,600	46,698	1,278
91	1,06	47,219	47,238	47,194	47,228	47,156	47,213	47,093	47,191	1,278
92	1,06	47,726	47,745	47,701	47,735	47,663	47,720	47,599	47,697	1,278
93	1,06	48,220	48,238	48,194	48,228	48,156	48,213	48,092	48,190	1,279
94	1,06	48,726	48,745	48,701	48,735	48,663	48,720	48,599	48,697	1,279
95	1,06	49,220	49,238	49,194	49,228	49,156	49,213	49,092	49,190	1,279
96	1,06	49,726	49,745	49,701	49,735	49,662	49,720	49,598	49,697	1,279
97	1,06	50,220	50,239	50,194	50,228	50,156	50,213	50,091	50,190	1,280
98	1,06	50,726	50,745	50,701	50,734	50,662	50,720	50,598	50,696	1,280
99	1,06	51,220	51,239	51,194	51,228	51,156	51,213	51,091	51,190	1,280
100	1,06	51,726	51,745	51,701	51,734	51,662	51,719	51,597	51,696	1,280

5.16 37,5° pressure angle, module 0,75

Table 61 — Geometry internal spline, $\alpha = 37{,}5°$, $m = 0{,}75$, fillet root, $E_{v\,min} = 1{,}178$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	4,50	3,5701	5,69	5,33	3,98	1,205	1,220	1,244	1,284
7	5,25	4,1651	6,44	6,08	4,70	1,205	1,221	1,245	1,286
8	6,00	4,7601	7,19	6,83	5,44	1,205	1,222	1,246	1,287
9	6,75	5,3551	7,94	7,58	6,17	1,206	1,222	1,247	1,289
10	7,50	5,9502	8,70	8,33	6,91	1,206	1,223	1,248	1,290
11	8,25	6,5452	9,45	9,08	7,65	1,206	1,223	1,249	1,291
12	9,00	7,1402	10,20	9,83	8,40	1,207	1,224	1,249	1,292
13	9,75	7,7352	10,95	10,58	9,14	1,207	1,224	1,250	1,293
14	10,50	8,3302	11,70	11,33	9,88	1,207	1,224	1,251	1,294
15	11,25	8,9252	12,45	12,08	10,63	1,207	1,225	1,251	1,295
16	12,00	9,5202	13,20	12,83	11,38	1,207	1,225	1,252	1,296
17	12,75	10,1153	13,95	13,58	12,12	1,208	1,226	1,252	1,297
18	13,50	10,7103	14,71	14,33	12,87	1,208	1,226	1,253	1,298
19	14,25	11,3053	15,46	15,08	13,62	1,208	1,226	1,253	1,298
20	15,00	11,9003	16,21	15,83	14,37	1,208	1,226	1,254	1,299
21	15,75	12,4953	16,96	16,58	15,11	1,208	1,227	1,254	1,300
22	16,50	13,0903	17,71	17,33	15,86	1,209	1,227	1,255	1,301
23	17,25	13,6853	18,46	18,08	16,61	1,209	1,227	1,255	1,301
24	18,00	14,2804	19,21	18,83	17,36	1,209	1,228	1,256	1,302
25	18,75	14,8754	19,96	19,58	18,11	1,209	1,228	1,256	1,303
26	19,50	15,4704	20,71	20,33	18,86	1,209	1,228	1,256	1,303
27	20,25	16,0654	21,46	21,08	19,60	1,210	1,228	1,257	1,304
28	21,00	16,6604	22,22	21,83	20,35	1,210	1,229	1,257	1,305
29	21,75	17,2554	22,97	22,58	21,10	1,210	1,229	1,258	1,305
30	22,50	17,8505	23,72	23,33	21,85	1,210	1,229	1,258	1,306
31	23,25	18,4455	24,47	24,08	22,60	1,210	1,229	1,258	1,307
32	24,00	19,0405	25,22	24,83	23,35	1,210	1,230	1,259	1,307
33	24,75	19,6355	25,97	25,58	24,10	1,210	1,230	1,259	1,308
34	25,50	20,2305	26,72	26,33	24,85	1,211	1,230	1,259	1,308
35	26,25	20,8255	27,47	27,08	25,60	1,211	1,230	1,260	1,309
36	27,00	21,4205	28,22	27,83	26,35	1,211	1,231	1,260	1,309
37	27,75	22,0156	28,97	28,58	27,10	1,211	1,231	1,260	1,310
38	28,50	22,6106	29,72	29,33	27,85	1,211	1,231	1,261	1,310
39	29,25	23,2056	30,47	30,08	28,60	1,211	1,231	1,261	1,311
40	30,00	23,8006	31,22	30,83	29,34	1,211	1,231	1,261	1,311
41	30,75	24,3956	31,97	31,58	30,09	1,211	1,232	1,262	1,312
42	31,50	24,9906	32,73	32,33	30,84	1,212	1,232	1,262	1,312
43	32,25	25,5856	33,48	33,08	31,59	1,212	1,232	1,262	1,313
44	33,00	26,1807	34,23	33,83	32,34	1,212	1,232	1,263	1,313
45	33,75	26,7757	34,98	34,58	33,09	1,212	1,232	1,263	1,314
46	34,50	27,3707	35,73	35,33	33,84	1,212	1,232	1,263	1,314
47	35,25	27,9657	36,48	36,08	34,59	1,212	1,233	1,263	1,315
48	36,00	28,5607	37,23	36,83	35,34	1,212	1,233	1,264	1,315
49	36,75	29,1557	37,98	37,58	36,09	1,212	1,233	1,264	1,316
50	37,50	29,7508	38,73	38,33	36,84	1,212	1,233	1,264	1,316
51	38,25	30,3458	39,48	39,08	37,59	1,213	1,233	1,265	1,316
52	39,00	30,9408	40,23	39,83	38,34	1,213	1,234	1,265	1,317
53	39,75	31,5358	40,98	40,58	39,09	1,213	1,234	1,265	1,317
54	40,50	32,1308	41,73	41,33	39,84	1,213	1,234	1,265	1,318
55	41,25	32,7258	42,48	42,08	40,59	1,213	1,234	1,266	1,318
56	42,00	33,3208	43,23	42,83	41,34	1,213	1,234	1,266	1,318
57	42,75	33,9159	43,98	43,58	42,09	1,213	1,234	1,266	1,319
58	43,50	34,5109	44,73	44,33	42,84	1,213	1,235	1,266	1,319
59	44,25	35,1059	45,48	45,08	43,59	1,213	1,235	1,267	1,320
60	45,00	35,7009	46,24	45,83	44,34	1,214	1,235	1,267	1,320
61	45,75	36,2959	46,99	46,58	45,09	1,214	1,235	1,267	1,320
62	46,50	36,8909	47,74	47,33	45,84	1,214	1,235	1,267	1,321
63	47,25	37,4859	48,49	48,08	46,59	1,214	1,235	1,267	1,321
64	48,00	38,0810	49,24	48,83	47,34	1,214	1,235	1,268	1,322
65	48,75	38,6760	49,99	49,58	48,09	1,214	1,236	1,268	1,322
66	49,50	39,2710	50,74	50,33	48,84	1,214	1,236	1,268	1,322
67	50,25	39,8660	51,49	51,08	49,59	1,214	1,236	1,268	1,323
68	51,00	40,4610	52,24	51,83	50,34	1,214	1,236	1,269	1,323
69	51,75	41,0560	52,99	52,58	51,09	1,214	1,236	1,269	1,323
70	52,50	41,6511	53,74	53,33	51,84	1,214	1,236	1,269	1,324
71	53,25	42,2461	54,49	54,08	52,59	1,215	1,236	1,269	1,324
72	54,00	42,8411	55,24	54,83	53,34	1,215	1,237	1,270	1,324
73	54,75	43,4361	55,99	55,58	54,09	1,215	1,237	1,270	1,325
74	55,50	44,0311	56,74	56,33	54,84	1,215	1,237	1,270	1,325
75	56,25	44,6261	57,49	57,08	55,59	1,215	1,237	1,270	1,325
76	57,00	45,2211	58,24	57,83	56,34	1,215	1,237	1,270	1,326
77	57,75	45,8162	58,99	58,58	57,09	1,215	1,237	1,271	1,326
78	58,50	46,4112	59,74	59,33	57,84	1,215	1,237	1,271	1,326
79	59,25	47,0062	60,49	60,08	58,58	1,215	1,238	1,271	1,327
80	60,00	47,6012	61,24	60,83	59,33	1,215	1,238	1,271	1,327
81	60,75	48,1962	61,99	61,58	60,08	1,215	1,238	1,271	1,327
82	61,50	48,7912	62,75	62,33	60,83	1,215	1,238	1,272	1,328
83	62,25	49,3862	63,50	63,08	61,58	1,216	1,238	1,272	1,328
84	63,00	49,9813	64,25	63,83	62,33	1,216	1,238	1,272	1,328
85	63,75	50,5763	65,00	64,58	63,08	1,216	1,238	1,272	1,329
86	64,50	51,1713	65,75	65,33	63,83	1,216	1,238	1,272	1,329
87	65,25	51,7663	66,50	66,08	64,58	1,216	1,239	1,273	1,329
88	66,00	52,3613	67,25	66,83	65,33	1,216	1,239	1,273	1,330
89	66,75	52,9563	68,00	67,58	66,08	1,216	1,239	1,273	1,330
90	67,50	53,5514	68,75	68,33	66,83	1,216	1,239	1,273	1,330
91	68,25	54,1464	69,50	69,08	67,58	1,216	1,239	1,273	1,331
92	69,00	54,7414	70,25	69,83	68,33	1,216	1,239	1,274	1,331
93	69,75	55,3364	71,00	70,58	69,08	1,216	1,239	1,274	1,331
94	70,50	55,9314	71,75	71,33	69,83	1,216	1,239	1,274	1,331
95	71,25	56,5264	72,50	72,08	70,58	1,216	1,239	1,274	1,332
96	72,00	57,1214	73,25	72,83	71,33	1,216	1,240	1,274	1,332
97	72,75	57,7165	74,00	73,58	72,08	1,217	1,240	1,274	1,332
98	73,50	58,3115	74,75	74,33	72,83	1,217	1,240	1,275	1,333
99	74,25	58,9065	75,50	75,08	73,58	1,217	1,240	1,275	1,333
100	75,00	59,5015	76,25	75,83	74,33	1,217	1,240	1,275	1,333

Table 62 — Geometry external spline, $\alpha = 37{,}5°$, $m = 0{,}75$, fillet root, $S_{v\,max} = 1{,}178$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	4,50	3,5701	5,18	3,83	3,31	1,151	1,136	1,112	1,072
7	5,25	4,1651	5,93	4,55	4,06	1,151	1,135	1,111	1,070
8	6,00	4,7601	6,68	5,29	4,81	1,151	1,134	1,110	1,069
9	6,75	5,3551	7,43	6,02	5,56	1,150	1,134	1,109	1,067
10	7,50	5,9502	8,18	6,76	6,30	1,150	1,133	1,108	1,066
11	8,25	6,5452	8,93	7,50	7,05	1,150	1,133	1,107	1,065
12	9,00	7,1402	9,68	8,25	7,80	1,149	1,132	1,107	1,064
13	9,75	7,7352	10,43	8,99	8,55	1,149	1,132	1,106	1,063
14	10,50	8,3302	11,18	9,73	9,30	1,149	1,132	1,105	1,062
15	11,25	8,9252	11,93	10,48	10,05	1,149	1,131	1,105	1,061
16	12,00	9,5202	12,68	11,23	10,80	1,149	1,131	1,104	1,060
17	12,75	10,1153	13,43	11,97	11,55	1,148	1,130	1,104	1,059
18	13,50	10,7103	14,18	12,72	12,29	1,148	1,130	1,103	1,058
19	14,25	11,3053	14,93	13,47	13,04	1,148	1,130	1,103	1,058
20	15,00	11,9003	15,68	14,22	13,79	1,148	1,130	1,102	1,057
21	15,75	12,4953	16,43	14,96	14,54	1,148	1,129	1,102	1,056
22	16,50	13,0903	17,18	15,71	15,29	1,147	1,129	1,101	1,055
23	17,25	13,6853	17,93	16,46	16,04	1,147	1,129	1,101	1,055
24	18,00	14,2804	18,68	17,21	16,79	1,147	1,128	1,100	1,054
25	18,75	14,8754	19,43	17,96	17,54	1,147	1,128	1,100	1,053
26	19,50	15,4704	20,18	18,71	18,29	1,147	1,128	1,100	1,053
27	20,25	16,0654	20,93	19,45	19,04	1,146	1,128	1,099	1,052
28	21,00	16,6604	21,68	20,20	19,78	1,146	1,127	1,099	1,051
29	21,75	17,2554	22,43	20,95	20,53	1,146	1,127	1,098	1,051
30	22,50	17,8505	23,18	21,70	21,28	1,146	1,127	1,098	1,050
31	23,25	18,4455	23,93	22,45	22,03	1,146	1,127	1,098	1,049
32	24,00	19,0405	24,68	23,20	22,78	1,146	1,126	1,097	1,049
33	24,75	19,6355	25,43	23,95	23,53	1,146	1,126	1,097	1,048
34	25,50	20,2305	26,18	24,70	24,28	1,145	1,126	1,097	1,048
35	26,25	20,8255	26,93	25,45	25,03	1,145	1,126	1,096	1,047
36	27,00	21,4205	27,68	26,20	25,78	1,145	1,125	1,096	1,047
37	27,75	22,0156	28,43	26,95	26,53	1,145	1,125	1,096	1,046
38	28,50	22,6106	29,18	27,70	27,28	1,145	1,125	1,095	1,046
39	29,25	23,2056	29,93	28,45	28,03	1,145	1,125	1,095	1,045
40	30,00	23,8006	30,68	29,19	28,78	1,145	1,125	1,095	1,045
41	30,75	24,3956	31,43	29,94	29,53	1,145	1,124	1,094	1,044
42	31,50	24,9906	32,18	30,69	30,27	1,144	1,124	1,094	1,044
43	32,25	25,5856	32,93	31,44	31,02	1,144	1,124	1,094	1,043
44	33,00	26,1807	33,68	32,19	31,77	1,144	1,124	1,093	1,043
45	33,75	26,7757	34,43	32,94	32,52	1,144	1,124	1,093	1,042
46	34,50	27,3707	35,18	33,69	33,27	1,144	1,124	1,093	1,042
47	35,25	27,9657	35,93	34,44	34,02	1,144	1,123	1,093	1,041
48	36,00	28,5607	36,68	35,19	34,77	1,144	1,123	1,092	1,041
49	36,75	29,1557	37,43	35,94	35,52	1,144	1,123	1,092	1,040
50	37,50	29,7508	38,18	36,69	36,27	1,144	1,123	1,092	1,040
51	38,25	30,3458	38,93	37,44	37,02	1,143	1,123	1,091	1,040
52	39,00	30,9408	39,68	38,19	37,77	1,143	1,122	1,091	1,039
53	39,75	31,5358	40,43	38,94	38,52	1,143	1,122	1,091	1,039
54	40,50	32,1308	41,18	39,69	39,27	1,143	1,122	1,091	1,038
55	41,25	32,7258	41,93	40,44	40,02	1,143	1,122	1,090	1,038
56	42,00	33,3208	42,68	41,19	40,77	1,143	1,122	1,090	1,038
57	42,75	33,9159	43,43	41,94	41,52	1,143	1,122	1,090	1,037
58	43,50	34,5109	44,18	42,69	42,27	1,143	1,121	1,090	1,037
59	44,25	35,1059	44,93	43,44	43,02	1,143	1,121	1,089	1,036
60	45,00	35,7009	45,68	44,19	43,76	1,142	1,121	1,089	1,036
61	45,75	36,2959	46,43	44,94	44,51	1,142	1,121	1,089	1,036
62	46,50	36,8909	47,18	45,69	45,26	1,142	1,121	1,089	1,035
63	47,25	37,4859	47,93	46,44	46,01	1,142	1,121	1,089	1,035
64	48,00	38,0810	48,68	47,19	46,76	1,142	1,121	1,088	1,034
65	48,75	38,6760	49,43	47,94	47,51	1,142	1,120	1,088	1,034
66	49,50	39,2710	50,18	48,69	48,26	1,142	1,120	1,088	1,034
67	50,25	39,8660	50,93	49,44	49,01	1,142	1,120	1,088	1,033
68	51,00	40,4610	51,68	50,19	49,76	1,142	1,120	1,087	1,033
69	51,75	41,0560	52,43	50,94	50,51	1,142	1,120	1,087	1,033
70	52,50	41,6511	53,18	51,69	51,26	1,142	1,120	1,087	1,032
71	53,25	42,2461	53,93	52,44	52,01	1,141	1,120	1,087	1,032
72	54,00	42,8411	54,68	53,19	52,76	1,141	1,119	1,086	1,032
73	54,75	43,4361	55,43	53,94	53,51	1,141	1,119	1,086	1,031
74	55,50	44,0311	56,18	54,69	54,26	1,141	1,119	1,086	1,031
75	56,25	44,6261	56,93	55,44	55,01	1,141	1,119	1,086	1,031
76	57,00	45,2211	57,68	56,19	55,76	1,141	1,119	1,086	1,030
77	57,75	45,8162	58,43	56,94	56,51	1,141	1,119	1,085	1,030
78	58,50	46,4112	59,18	57,69	57,26	1,141	1,119	1,085	1,030
79	59,25	47,0062	59,93	58,43	58,01	1,141	1,118	1,085	1,029
80	60,00	47,6012	60,68	59,18	58,76	1,141	1,118	1,085	1,029
81	60,75	48,1962	61,43	59,93	59,51	1,141	1,118	1,085	1,029
82	61,50	48,7912	62,18	60,68	60,25	1,141	1,118	1,084	1,028
83	62,25	49,3862	62,93	61,43	61,00	1,140	1,118	1,084	1,028
84	63,00	49,9813	63,68	62,18	61,75	1,140	1,118	1,084	1,028
85	63,75	50,5763	64,43	62,93	62,50	1,140	1,118	1,084	1,027
86	64,50	51,1713	65,18	63,68	63,25	1,140	1,118	1,084	1,027
87	65,25	51,7663	65,93	64,43	64,00	1,140	1,117	1,083	1,027
88	66,00	52,3613	66,68	65,18	64,75	1,140	1,117	1,083	1,026
89	66,75	52,9563	67,43	65,93	65,50	1,140	1,117	1,083	1,026
90	67,50	53,5514	68,18	66,68	66,25	1,140	1,117	1,083	1,026
91	68,25	54,1464	68,93	67,43	67,00	1,140	1,117	1,083	1,025
92	69,00	54,7414	69,68	68,18	67,75	1,140	1,117	1,082	1,025
93	69,75	55,3364	70,43	68,93	68,50	1,140	1,117	1,082	1,025
94	70,50	55,9314	71,18	69,68	69,25	1,140	1,117	1,082	1,025
95	71,25	56,5264	71,93	70,43	70,00	1,140	1,117	1,082	1,024
96	72,00	57,1214	72,68	71,18	70,75	1,140	1,116	1,082	1,024
97	72,75	57,7165	73,43	71,93	71,50	1,139	1,116	1,082	1,024
98	73,50	58,3115	74,18	72,68	72,25	1,139	1,116	1,081	1,023
99	74,25	58,9065	74,93	73,43	73,00	1,139	1,116	1,081	1,023
100	75,00	59,5015	75,68	74,18	73,75	1,139	1,116	1,081	1,023

Table 63 — Inspection dimensions internal spline, $\alpha = 37{,}5°$, $m = 0{,}75$, $E_{v\,min} = 1{,}178$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	1,32	2,391	2,434	2,406	2,473	2,426	2,526	2,457	2,606	1,906
7	1,32	3,085	3,116	3,095	3,146	3,110	3,190	3,134	3,260	1,672
8	1,32	3,974	4,003	3,984	4,031	3,998	4,073	4,020	4,141	1,619
9	1,40	4,389	4,420	4,400	4,450	4,414	4,494	4,438	4,565	1,672
10	1,40	5,250	5,279	5,260	5,308	5,274	5,351	5,297	5,420	1,624
11	1,40	5,940	5,967	5,949	5,994	5,962	6,035	5,984	6,102	1,557
12	1,40	6,776	6,803	6,785	6,830	6,798	6,871	6,820	6,937	1,537
13	1,40	7,469	7,495	7,479	7,522	7,491	7,562	7,512	7,627	1,498
14	1,40	8,291	8,317	8,300	8,344	8,313	8,383	8,334	8,449	1,487
15	1,40	8,990	9,015	8,999	9,041	9,012	9,081	9,032	9,145	1,461
16	1,40	9,802	9,827	9,811	9,853	9,824	9,893	9,844	9,957	1,455
17	1,40	10,505	10,530	10,514	10,556	10,527	10,595	10,547	10,659	1,437
18	1,40	11,309	11,334	11,318	11,360	11,331	11,399	11,352	11,464	1,432
19	1,40	12,016	12,041	12,025	12,067	12,038	12,106	12,059	12,170	1,418
20	1,50	12,529	12,554	12,539	12,582	12,552	12,622	12,573	12,688	1,457
21	1,50	13,242	13,267	13,251	13,294	13,264	13,334	13,286	13,400	1,443
22	1,50	14,037	14,061	14,046	14,088	14,059	14,129	14,080	14,195	1,438
23	1,50	14,752	14,776	14,761	14,803	14,774	14,843	14,795	14,910	1,427
24	1,50	15,543	15,567	15,552	15,594	15,565	15,634	15,586	15,701	1,423
25	1,50	16,260	16,284	16,269	16,311	16,283	16,351	16,304	16,418	1,414
26	1,50	17,047	17,072	17,057	17,098	17,070	17,139	17,091	17,205	1,411
27	1,50	17,767	17,791	17,776	17,818	17,790	17,858	17,811	17,925	1,404
28	1,50	18,551	18,575	18,561	18,602	18,574	18,643	18,596	18,710	1,402
29	1,50	19,273	19,297	19,282	19,324	19,296	19,364	19,317	19,431	1,395
30	1,50	20,055	20,079	20,064	20,106	20,078	20,146	20,100	20,213	1,393
31	1,50	20,778	20,802	20,787	20,829	20,801	20,869	20,823	20,936	1,388
32	1,50	21,558	21,582	21,567	21,609	21,581	21,649	21,603	21,717	1,387
33	1,50	22,282	22,306	22,292	22,333	22,306	22,374	22,327	22,441	1,382
34	1,50	23,060	23,084	23,070	23,111	23,084	23,152	23,106	23,220	1,381
35	1,50	23,786	23,810	23,796	23,837	23,810	23,878	23,832	23,945	1,377
36	1,50	24,563	24,586	24,573	24,614	24,586	24,655	24,609	24,723	1,375
37	1,50	25,290	25,313	25,299	25,341	25,313	25,382	25,336	25,450	1,372
38	1,50	26,065	26,088	26,075	26,116	26,089	26,157	26,111	26,225	1,371
39	1,50	26,793	26,816	26,803	26,844	26,817	26,885	26,839	26,953	1,368
40	1,50	27,567	27,590	27,577	27,618	27,591	27,659	27,613	27,727	1,367
41	1,50	28,296	28,319	28,306	28,347	28,320	28,388	28,342	28,457	1,364
42	1,50	29,068	29,092	29,078	29,119	29,093	29,161	29,115	29,230	1,363
43	1,50	29,798	29,822	29,808	29,849	29,823	29,891	29,845	29,960	1,361
44	1,50	30,570	30,593	30,580	30,621	30,595	30,663	30,617	30,732	1,360
45	1,50	31,301	31,324	31,311	31,352	31,325	31,394	31,348	31,463	1,358
46	1,50	32,071	32,095	32,082	32,123	32,096	32,164	32,119	32,234	1,357
47	1,50	32,803	32,826	32,813	32,854	32,828	32,896	32,851	32,966	1,355
48	1,50	33,573	33,596	33,583	33,624	33,598	33,666	33,621	33,736	1,355
49	1,50	34,305	34,328	34,315	34,356	34,330	34,398	34,353	34,468	1,353
50	1,50	35,074	35,097	35,084	35,125	35,099	35,167	35,123	35,238	1,352
51	1,50	35,807	35,830	35,817	35,858	35,832	35,900	35,856	35,971	1,351
52	1,50	36,575	36,598	36,586	36,626	36,601	36,669	36,624	36,739	1,350
53	1,50	37,308	37,332	37,319	37,360	37,334	37,402	37,358	37,473	1,349
54	1,50	38,076	38,099	38,087	38,128	38,102	38,170	38,126	38,241	1,348
55	1,50	38,810	38,833	38,821	38,862	38,836	38,904	38,860	38,975	1,347
56	1,50	39,577	39,600	39,588	39,629	39,603	39,671	39,627	39,742	1,346
57	1,50	40,312	40,335	40,323	40,363	40,338	40,406	40,362	40,477	1,345
58	1,50	41,078	41,101	41,089	41,130	41,104	41,173	41,128	41,244	1,345
59	1,50	41,813	41,836	41,824	41,865	41,839	41,908	41,864	41,979	1,343
60	1,50	42,579	42,602	42,590	42,631	42,605	42,674	42,630	42,745	1,343
61	1,50	43,314	43,337	43,326	43,366	43,341	43,409	43,365	43,481	1,342
62	1,50	44,080	44,103	44,091	44,132	44,106	44,175	44,131	44,247	1,342
63	1,50	44,816	44,839	44,827	44,868	44,843	44,911	44,867	44,983	1,340
64	1,50	45,581	45,603	45,592	45,632	45,607	45,676	45,632	45,748	1,340
65	1,50	46,317	46,340	46,328	46,369	46,344	46,412	46,369	46,485	1,339
66	1,50	47,081	47,104	47,093	47,133	47,108	47,177	47,133	47,249	1,339
67	1,50	47,818	47,841	47,829	47,870	47,845	47,914	47,870	47,987	1,338
68	1,50	48,582	48,605	48,593	48,634	48,609	48,678	48,634	48,751	1,338
69	1,50	49,319	49,342	49,331	49,371	49,347	49,415	49,372	49,488	1,337
70	1,50	50,083	50,105	50,094	50,135	50,110	50,179	50,136	50,252	1,337
71	1,50	50,820	50,843	50,832	50,872	50,848	50,916	50,873	50,990	1,336
72	1,50	51,583	51,606	51,595	51,636	51,611	51,680	51,637	51,753	1,336
73	1,50	52,321	52,344	52,333	52,373	52,349	52,418	52,375	52,491	1,335
74	1,50	53,084	53,107	53,096	53,136	53,112	53,181	53,138	53,254	1,335
75	1,50	53,822	53,845	53,834	53,874	53,850	53,919	53,876	53,993	1,334
76	1,50	54,585	54,607	54,596	54,637	54,613	54,681	54,639	54,755	1,334
77	1,50	55,323	55,346	55,335	55,375	55,351	55,420	55,377	55,494	1,333
78	1,50	56,085	56,108	56,097	56,138	56,114	56,182	56,140	56,257	1,333
79	1,50	56,824	56,847	56,836	56,876	56,853	56,921	56,878	56,996	1,332
80	1,50	57,586	57,608	57,598	57,638	57,614	57,683	57,641	57,758	1,332
81	1,50	58,325	58,347	58,337	58,377	58,354	58,422	58,380	58,497	1,331
82	1,50	59,086	59,109	59,098	59,139	59,115	59,184	59,141	59,259	1,331
83	1,50	59,826	59,848	59,838	59,878	59,855	59,923	59,881	59,998	1,331
84	1,50	60,587	60,609	60,599	60,639	60,616	60,685	60,642	60,760	1,331
85	1,50	61,326	61,349	61,339	61,379	61,356	61,424	61,382	61,500	1,330
86	1,50	62,087	62,110	62,100	62,140	62,117	62,185	62,143	62,261	1,330
87	1,50	62,827	62,850	62,839	62,880	62,857	62,925	62,883	63,001	1,329
88	1,50	63,588	63,610	63,600	63,641	63,617	63,686	63,644	63,762	1,329
89	1,50	64,328	64,350	64,340	64,381	64,357	64,426	64,384	64,502	1,329
90	1,50	65,088	65,111	65,101	65,141	65,118	65,187	65,145	65,263	1,329
91	1,50	65,829	65,851	65,841	65,881	65,858	65,927	65,885	66,003	1,328
92	1,50	66,589	66,611	66,601	66,642	66,619	66,688	66,646	66,764	1,328
93	1,50	67,329	67,352	67,342	67,382	67,359	67,428	67,386	67,504	1,327
94	1,50	68,089	68,112	68,102	68,142	68,119	68,188	68,147	68,265	1,327
95	1,50	68,830	68,852	68,842	68,883	68,860	68,929	68,887	69,005	1,327
96	1,50	69,590	69,612	69,602	69,643	69,620	69,689	69,647	69,766	1,327
97	1,50	70,331	70,353	70,343	70,384	70,361	70,430	70,388	70,507	1,326
98	1,50	71,090	71,112	71,103	71,143	71,121	71,189	71,148	71,266	1,326
99	1,50	71,831	71,853	71,844	71,884	71,862	71,931	71,889	72,008	1,326
100	1,50	72,591	72,613	72,603	72,644	72,621	72,690	72,649	72,767	1,326

Table 64 — Inspection dimensions external spline, $\alpha = 37{,}5°$, $m = 0{,}75$, $S_{v\,max} = 1{,}178$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	2,00	7,947	7,963	7,931	7,958	7,907	7,950	7,868	7,938	1,000
7	1,90	8,325	8,341	8,309	8,335	8,284	8,328	8,244	8,315	1,007
8	1,80	9,023	9,040	9,006	9,035	8,980	9,027	8,937	9,013	1,065
9	1,80	9,664	9,681	9,646	9,675	9,620	9,667	9,576	9,653	1,063
10	1,80	10,545	10,562	10,527	10,556	10,499	10,548	10,454	10,534	1,093
11	1,70	10,969	10,987	10,950	10,981	10,922	10,972	10,876	10,958	1,109
12	1,70	11,820	11,839	11,801	11,832	11,772	11,823	11,724	11,808	1,130
13	1,70	12,497	12,515	12,477	12,508	12,448	12,499	12,399	12,484	1,131
14	1,70	13,331	13,349	13,311	13,343	13,281	13,333	13,231	13,318	1,147
15	1,70	14,017	14,036	13,997	14,029	13,967	14,020	13,917	14,004	1,148
16	1,70	14,839	14,858	14,818	14,851	14,788	14,841	14,736	14,825	1,161
17	1,70	15,533	15,552	15,512	15,545	15,481	15,535	15,430	15,519	1,162
18	1,60	16,098	16,117	16,077	16,110	16,045	16,100	15,992	16,084	1,188
19	1,60	16,798	16,818	16,777	16,810	16,745	16,800	16,691	16,783	1,188
20	1,60	17,602	17,622	17,580	17,614	17,548	17,604	17,494	17,587	1,197
21	1,60	18,307	18,327	18,285	18,319	18,252	18,309	18,198	18,292	1,198
22	1,60	19,105	19,125	19,083	19,118	19,050	19,107	18,995	19,090	1,205
23	1,60	19,814	19,834	19,792	19,827	19,759	19,816	19,703	19,799	1,205
24	1,60	20,608	20,629	20,586	20,621	20,552	20,610	20,496	20,592	1,211
25	1,60	21,321	21,341	21,298	21,333	21,264	21,322	21,208	21,304	1,212
26	1,60	22,111	22,131	22,088	22,123	22,054	22,112	21,997	22,094	1,217
27	1,60	22,826	22,846	22,803	22,838	22,769	22,827	22,711	22,809	1,218
28	1,60	23,613	23,634	23,590	23,625	23,555	23,614	23,497	23,596	1,223
29	1,60	24,331	24,351	24,307	24,343	24,273	24,331	24,214	24,313	1,223
30	1,60	25,115	25,136	25,092	25,127	25,056	25,116	24,998	25,097	1,227
31	1,60	25,835	25,855	25,811	25,847	25,776	25,835	25,717	25,816	1,228
32	1,60	26,617	26,637	26,593	26,629	26,557	26,617	26,498	26,598	1,231
33	1,60	27,338	27,359	27,314	27,350	27,279	27,338	27,219	27,319	1,232
34	1,60	28,118	28,139	28,094	28,130	28,058	28,118	27,998	28,099	1,235
35	1,60	28,841	28,862	28,817	28,853	28,781	28,841	28,720	28,822	1,235
36	1,60	29,619	29,640	29,595	29,632	29,559	29,619	29,498	29,600	1,238
37	1,60	30,344	30,365	30,320	30,356	30,283	30,344	30,222	30,324	1,239
38	1,60	31,120	31,141	31,096	31,133	31,059	31,120	30,998	31,100	1,241
39	1,60	31,846	31,867	31,822	31,858	31,785	31,846	31,723	31,826	1,242
40	1,60	32,621	32,642	32,597	32,634	32,560	32,621	32,497	32,601	1,244
41	1,60	33,349	33,370	33,324	33,361	33,286	33,348	33,224	33,328	1,245
42	1,60	34,122	34,143	34,097	34,134	34,060	34,121	33,997	34,101	1,247
43	1,60	34,851	34,872	34,825	34,863	34,788	34,850	34,725	34,829	1,247
44	1,60	35,623	35,644	35,598	35,635	35,560	35,622	35,497	35,601	1,249
45	1,60	36,352	36,374	36,327	36,364	36,289	36,351	36,226	36,330	1,249
46	1,60	37,124	37,145	37,098	37,136	37,060	37,122	36,996	37,102	1,251
47	1,60	37,854	37,875	37,828	37,866	37,790	37,852	37,726	37,831	1,251
48	1,60	38,625	38,646	38,599	38,636	38,560	38,623	38,496	38,602	1,253
49	1,60	39,355	39,377	39,330	39,367	39,291	39,354	39,226	39,332	1,253
50	1,60	40,125	40,146	40,099	40,137	40,060	40,123	39,996	40,102	1,255
51	1,60	40,857	40,878	40,831	40,868	40,792	40,855	40,727	40,833	1,255
52	1,60	41,626	41,647	41,600	41,637	41,561	41,623	41,495	41,602	1,257
53	1,60	42,358	42,379	42,332	42,370	42,293	42,356	42,227	42,334	1,257
54	1,60	43,126	43,148	43,100	43,138	43,061	43,124	42,995	43,102	1,258
55	1,60	43,859	43,880	43,833	43,871	43,793	43,857	43,727	43,835	1,259
56	1,60	44,627	44,648	44,600	44,638	44,561	44,624	44,494	44,602	1,260
57	1,60	45,360	45,382	45,334	45,372	45,294	45,357	45,227	45,335	1,260
58	1,60	46,127	46,148	46,100	46,138	46,060	46,124	45,994	46,102	1,261
59	1,60	46,861	46,883	46,835	46,872	46,794	46,858	46,727	46,836	1,261
60	1,60	47,627	47,649	47,601	47,639	47,560	47,624	47,493	47,602	1,263
61	1,60	48,362	48,383	48,335	48,373	48,295	48,359	48,228	48,336	1,263
62	1,60	49,128	49,149	49,101	49,139	49,060	49,124	48,993	49,101	1,264
63	1,60	49,863	49,884	49,836	49,874	49,795	49,859	49,727	49,836	1,264
64	1,60	50,628	50,649	50,601	50,639	50,560	50,624	50,492	50,601	1,265
65	1,60	51,364	51,385	51,336	51,375	51,296	51,360	51,227	51,337	1,265
66	1,60	52,128	52,150	52,101	52,139	52,060	52,124	51,992	52,101	1,266
67	1,60	52,864	52,886	52,837	52,875	52,796	52,860	52,727	52,837	1,266
68	1,60	53,629	53,650	53,601	53,639	53,560	53,624	53,491	53,601	1,267
69	1,60	54,365	54,386	54,338	54,376	54,296	54,361	54,227	54,337	1,267
70	1,60	55,129	55,150	55,101	55,139	55,060	55,124	54,991	55,101	1,268
71	1,60	55,866	55,887	55,838	55,876	55,796	55,861	55,727	55,837	1,268
72	1,60	56,629	56,650	56,601	56,640	56,560	56,624	56,490	56,600	1,269
73	1,60	57,366	57,388	57,338	57,377	57,297	57,361	57,227	57,337	1,269
74	1,60	58,129	58,151	58,101	58,140	58,059	58,124	57,989	58,100	1,270
75	1,60	58,867	58,888	58,839	58,877	58,797	58,862	58,727	58,837	1,270
76	1,60	59,629	59,651	59,601	59,640	59,559	59,624	59,489	59,600	1,271
77	1,60	60,367	60,389	60,339	60,378	60,297	60,362	60,226	60,337	1,271
78	1,60	61,130	61,151	61,101	61,140	61,059	61,124	60,988	61,100	1,272
79	1,60	61,868	61,889	61,839	61,878	61,797	61,862	61,726	61,838	1,272
80	1,60	62,630	62,651	62,601	62,640	62,559	62,624	62,488	62,599	1,272
81	1,60	63,368	63,390	63,340	63,378	63,297	63,362	63,226	63,338	1,272
82	1,60	64,130	64,151	64,101	64,140	64,059	64,124	63,987	64,099	1,273
83	1,60	64,869	64,890	64,840	64,879	64,797	64,863	64,726	64,838	1,273
84	1,60	65,630	65,651	65,601	65,640	65,558	65,624	65,487	65,599	1,274
85	1,60	66,369	66,390	66,340	66,379	66,297	66,363	66,225	66,337	1,274
86	1,60	67,130	67,151	67,101	67,140	67,058	67,124	66,986	67,098	1,274
87	1,60	67,869	67,891	67,841	67,879	67,797	67,863	67,725	67,837	1,275
88	1,60	68,630	68,652	68,601	68,640	68,558	68,624	68,485	68,598	1,275
89	1,60	69,370	69,391	69,341	69,379	69,297	69,363	69,225	69,337	1,275
90	1,60	70,130	70,152	70,101	70,140	70,058	70,123	69,985	70,098	1,276
91	1,60	70,870	70,891	70,841	70,880	70,797	70,863	70,724	70,837	1,276
92	1,60	71,630	71,652	71,601	71,640	71,557	71,623	71,484	71,597	1,276
93	1,60	72,370	72,392	72,341	72,380	72,297	72,363	72,224	72,337	1,276
94	1,60	73,130	73,152	73,101	73,140	73,057	73,123	72,984	73,097	1,277
95	1,60	73,871	73,892	73,841	73,880	73,797	73,863	73,724	73,837	1,277
96	1,60	74,631	74,652	74,601	74,640	74,557	74,623	74,483	74,597	1,277
97	1,60	75,371	75,392	75,341	75,380	75,297	75,363	75,223	75,337	1,277
98	1,60	76,131	76,152	76,101	76,140	76,057	76,123	75,983	76,096	1,278
99	1,60	76,871	76,892	76,842	76,880	76,797	76,863	76,723	76,837	1,278
100	1,60	77,631	77,652	77,601	77,640	77,556	77,623	77,482	77,596	1,278

5.17 37,5° pressure angle, module 1

Table 65 — Geometry internal spline, $\alpha = 37{,}5°$, $m = 1$, fillet root, $E_{v\,min} = 1{,}571$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	6,00	4,7601	7,55	7,10	5,31	1,600	1,618	1,644	1,688
7	7,00	5,5535	8,55	8,10	6,27	1,601	1,618	1,645	1,690
8	8,00	6,3468	9,56	9,10	7,25	1,601	1,619	1,646	1,691
9	9,00	7,1402	10,56	10,10	8,23	1,601	1,620	1,647	1,693
10	10,00	7,9335	11,56	11,10	9,21	1,602	1,620	1,648	1,694
11	11,00	8,7269	12,56	12,10	10,20	1,602	1,621	1,649	1,695
12	12,00	9,5202	13,56	13,10	11,19	1,602	1,621	1,650	1,697
13	13,00	10,3136	14,57	14,10	12,19	1,603	1,622	1,650	1,698
14	14,00	11,1069	15,57	15,10	13,18	1,603	1,622	1,651	1,699
15	15,00	11,9003	16,57	16,10	14,17	1,603	1,623	1,652	1,700
16	16,00	12,6937	17,57	17,10	15,17	1,603	1,623	1,652	1,701
17	17,00	13,4870	18,57	18,10	16,16	1,604	1,623	1,653	1,702
18	18,00	14,2804	19,57	19,10	17,16	1,604	1,624	1,653	1,703
19	19,00	15,0737	20,57	20,10	18,16	1,604	1,624	1,654	1,704
20	20,00	15,8671	21,57	21,10	19,15	1,604	1,624	1,655	1,705
21	21,00	16,6604	22,58	22,10	20,15	1,605	1,625	1,655	1,705
22	22,00	17,4538	23,58	23,10	21,15	1,605	1,625	1,656	1,706
23	23,00	18,2471	24,58	24,10	22,15	1,605	1,625	1,656	1,707
24	24,00	19,0405	25,58	25,10	23,14	1,605	1,626	1,657	1,708
25	25,00	19,8338	26,58	26,10	24,14	1,605	1,626	1,657	1,709
26	26,00	20,6272	27,58	27,10	25,14	1,606	1,626	1,657	1,709
27	27,00	21,4205	28,58	28,10	26,14	1,606	1,627	1,658	1,710
28	28,00	22,2139	29,58	29,10	27,14	1,606	1,627	1,658	1,711
29	29,00	23,0072	30,58	30,10	28,14	1,606	1,627	1,659	1,711
30	30,00	23,8006	31,58	31,10	29,14	1,606	1,627	1,659	1,712
31	31,00	24,5940	32,58	32,10	30,13	1,606	1,628	1,660	1,713
32	32,00	25,3873	33,59	33,10	31,13	1,607	1,628	1,660	1,713
33	33,00	26,1807	34,59	34,10	32,13	1,607	1,628	1,660	1,714
34	34,00	26,9740	35,59	35,10	33,13	1,607	1,628	1,661	1,715
35	35,00	27,7674	36,59	36,10	34,13	1,607	1,629	1,661	1,715
36	36,00	28,5607	37,59	37,10	35,13	1,607	1,629	1,662	1,716
37	37,00	29,3541	38,59	38,10	36,13	1,607	1,629	1,662	1,716
38	38,00	30,1474	39,59	39,10	37,13	1,607	1,629	1,662	1,717
39	39,00	30,9408	40,59	40,10	38,13	1,608	1,630	1,663	1,718
40	40,00	31,7341	41,59	41,10	39,13	1,608	1,630	1,663	1,718
41	41,00	32,5275	42,59	42,10	40,13	1,608	1,630	1,663	1,719
42	42,00	33,3208	43,59	43,10	41,13	1,608	1,630	1,664	1,719
43	43,00	34,1142	44,59	44,10	42,12	1,608	1,630	1,664	1,720
44	44,00	34,9075	45,59	45,10	43,12	1,608	1,631	1,664	1,720
45	45,00	35,7009	46,60	46,10	44,12	1,608	1,631	1,665	1,721
46	46,00	36,4943	47,60	47,10	45,12	1,609	1,631	1,665	1,721
47	47,00	37,2876	48,60	48,10	46,12	1,609	1,631	1,665	1,722
48	48,00	38,0810	49,60	49,10	47,12	1,609	1,632	1,666	1,722
49	49,00	38,8743	50,60	50,10	48,12	1,609	1,632	1,666	1,723
50	50,00	39,6677	51,60	51,10	49,12	1,609	1,632	1,666	1,723
51	51,00	40,4610	52,60	52,10	50,12	1,609	1,632	1,666	1,724
52	52,00	41,2544	53,60	53,10	51,12	1,609	1,632	1,667	1,724
53	53,00	42,0477	54,60	54,10	52,12	1,609	1,632	1,667	1,725
54	54,00	42,8411	55,60	55,10	53,12	1,610	1,633	1,667	1,725
55	55,00	43,6344	56,60	56,10	54,12	1,610	1,633	1,668	1,726
56	56,00	44,4278	57,60	57,10	55,12	1,610	1,633	1,668	1,726
57	57,00	45,2211	58,60	58,10	56,12	1,610	1,633	1,668	1,727
58	58,00	46,0145	59,60	59,10	57,12	1,610	1,633	1,668	1,727
59	59,00	46,8078	60,60	60,10	58,12	1,610	1,634	1,669	1,727
60	60,00	47,6012	61,60	61,10	59,12	1,610	1,634	1,669	1,728
61	61,00	48,3946	62,60	62,10	60,12	1,610	1,634	1,669	1,728
62	62,00	49,1879	63,61	63,10	61,12	1,610	1,634	1,670	1,729
63	63,00	49,9813	64,61	64,10	62,12	1,611	1,634	1,670	1,729
64	64,00	50,7746	65,61	65,10	63,12	1,611	1,634	1,670	1,730
65	65,00	51,5680	66,61	66,10	64,12	1,611	1,635	1,670	1,730
66	66,00	52,3613	67,61	67,10	65,12	1,611	1,635	1,671	1,730
67	67,00	53,1547	68,61	68,10	66,12	1,611	1,635	1,671	1,731
68	68,00	53,9480	69,61	69,10	67,12	1,611	1,635	1,671	1,731
69	69,00	54,7414	70,61	70,10	68,12	1,611	1,635	1,671	1,732
70	70,00	55,5347	71,61	71,10	69,11	1,611	1,635	1,672	1,732
71	71,00	56,3281	72,61	72,10	70,11	1,611	1,636	1,672	1,732
72	72,00	57,1214	73,61	73,10	71,11	1,611	1,636	1,672	1,733
73	73,00	57,9148	74,61	74,10	72,11	1,612	1,636	1,672	1,733
74	74,00	58,7081	75,61	75,10	73,11	1,612	1,636	1,673	1,733
75	75,00	59,5015	76,61	76,10	74,11	1,612	1,636	1,673	1,734
76	76,00	60,2949	77,61	77,10	75,11	1,612	1,636	1,673	1,734
77	77,00	61,0882	78,61	78,10	76,11	1,612	1,636	1,673	1,735
78	78,00	61,8816	79,61	79,10	77,11	1,612	1,637	1,673	1,735
79	79,00	62,6749	80,61	80,10	78,11	1,612	1,637	1,674	1,735
80	80,00	63,4683	81,61	81,10	79,11	1,612	1,637	1,674	1,736
81	81,00	64,2616	82,62	82,10	80,11	1,612	1,637	1,674	1,736
82	82,00	65,0550	83,62	83,10	81,11	1,612	1,637	1,674	1,736
83	83,00	65,8483	84,62	84,10	82,11	1,612	1,637	1,675	1,737
84	84,00	66,6417	85,62	85,10	83,11	1,613	1,637	1,675	1,737
85	85,00	67,4350	86,62	86,10	84,11	1,613	1,638	1,675	1,737
86	86,00	68,2284	87,62	87,10	85,11	1,613	1,638	1,675	1,738
87	87,00	69,0217	88,62	88,10	86,11	1,613	1,638	1,675	1,738
88	88,00	69,8151	89,62	89,10	87,11	1,613	1,638	1,676	1,739
89	89,00	70,6084	90,62	90,10	88,11	1,613	1,638	1,676	1,739
90	90,00	71,4018	91,62	91,10	89,11	1,613	1,638	1,676	1,739
91	91,00	72,1952	92,62	92,10	90,11	1,613	1,638	1,676	1,740
92	92,00	72,9885	93,62	93,10	91,11	1,613	1,639	1,677	1,740
93	93,00	73,7819	94,62	94,10	92,11	1,613	1,639	1,677	1,740
94	94,00	74,5752	95,62	95,10	93,11	1,613	1,639	1,677	1,741
95	95,00	75,3686	96,62	96,10	94,11	1,613	1,639	1,677	1,741
96	96,00	76,1619	97,62	97,10	95,11	1,614	1,639	1,677	1,741
97	97,00	76,9553	98,62	98,10	96,11	1,614	1,639	1,678	1,742
98	98,00	77,7486	99,62	99,10	97,11	1,614	1,639	1,678	1,742
99	99,00	78,5420	100,62	100,10	98,11	1,614	1,639	1,678	1,742
100	100,00	79,3353	101,62	101,10	99,11	1,614	1,640	1,678	1,742

Table 66 — Geometry external spline, $\alpha = 37{,}5°$, $m = 1$, fillet root, $S_{v\,max} = 1{,}571$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	6,00	4,7601	6,90	5,11	4,45	1,542	1,524	1,498	1,454
7	7,00	5,5535	7,90	6,07	5,45	1,541	1,524	1,497	1,452
8	8,00	6,3468	8,90	7,05	6,44	1,541	1,523	1,496	1,451
9	9,00	7,1402	9,90	8,03	7,44	1,541	1,522	1,495	1,449
10	10,00	7,9335	10,90	9,01	8,44	1,540	1,522	1,494	1,448
11	11,00	8,7269	11,90	10,00	9,44	1,540	1,521	1,493	1,447
12	12,00	9,5202	12,90	10,99	10,44	1,540	1,521	1,492	1,445
13	13,00	10,3136	13,90	11,99	11,43	1,539	1,520	1,492	1,444
14	14,00	11,1069	14,90	12,98	12,43	1,539	1,520	1,491	1,443
15	15,00	11,9003	15,90	13,97	13,43	1,539	1,519	1,490	1,442
16	16,00	12,6937	16,90	14,97	14,43	1,539	1,519	1,490	1,441
17	17,00	13,4870	17,90	15,96	15,43	1,538	1,519	1,489	1,440
18	18,00	14,2804	18,90	16,96	16,43	1,538	1,518	1,489	1,439
19	19,00	15,0737	19,90	17,96	17,43	1,538	1,518	1,488	1,438
20	20,00	15,8671	20,90	18,95	18,43	1,538	1,518	1,487	1,437
21	21,00	16,6604	21,90	19,95	19,42	1,537	1,517	1,487	1,437
22	22,00	17,4538	22,90	20,95	20,42	1,537	1,517	1,486	1,436
23	23,00	18,2471	23,90	21,95	21,42	1,537	1,517	1,486	1,435
24	24,00	19,0405	24,90	22,94	22,42	1,537	1,516	1,485	1,434
25	25,00	19,8338	25,90	23,94	23,42	1,537	1,516	1,485	1,433
26	26,00	20,6272	26,90	24,94	24,42	1,536	1,516	1,485	1,433
27	27,00	21,4205	27,90	25,94	25,42	1,536	1,515	1,484	1,432
28	28,00	22,2139	28,90	26,94	26,42	1,536	1,515	1,484	1,431
29	29,00	23,0072	29,90	27,94	27,42	1,536	1,515	1,483	1,431
30	30,00	23,8006	30,90	28,94	28,42	1,536	1,515	1,483	1,430
31	31,00	24,5940	31,90	29,93	29,42	1,536	1,514	1,482	1,429
32	32,00	25,3873	32,90	30,93	30,41	1,535	1,514	1,482	1,429
33	33,00	26,1807	33,90	31,93	31,41	1,535	1,514	1,482	1,428
34	34,00	26,9740	34,90	32,93	32,41	1,535	1,514	1,481	1,427
35	35,00	27,7674	35,90	33,93	33,41	1,535	1,513	1,481	1,427
36	36,00	28,5607	36,90	34,93	34,41	1,535	1,513	1,480	1,426
37	37,00	29,3541	37,90	35,93	35,41	1,535	1,513	1,480	1,426
38	38,00	30,1474	38,90	36,93	36,41	1,535	1,513	1,480	1,425
39	39,00	30,9408	39,90	37,93	37,41	1,534	1,512	1,479	1,424
40	40,00	31,7341	40,90	38,93	38,41	1,534	1,512	1,479	1,424
41	41,00	32,5275	41,90	39,93	39,41	1,534	1,512	1,479	1,423
42	42,00	33,3208	42,90	40,93	40,41	1,534	1,512	1,478	1,423
43	43,00	34,1142	43,90	41,92	41,41	1,534	1,512	1,478	1,422
44	44,00	34,9075	44,90	42,92	42,41	1,534	1,511	1,478	1,422
45	45,00	35,7009	45,90	43,92	43,40	1,534	1,511	1,477	1,421
46	46,00	36,4943	46,90	44,92	44,40	1,533	1,511	1,477	1,421
47	47,00	37,2876	47,90	45,92	45,40	1,533	1,511	1,477	1,420
48	48,00	38,0810	48,90	46,92	46,40	1,533	1,510	1,476	1,420
49	49,00	38,8743	49,90	47,92	47,40	1,533	1,510	1,476	1,419
50	50,00	39,6677	50,90	48,92	48,40	1,533	1,510	1,476	1,419
51	51,00	40,4610	51,90	49,92	49,40	1,533	1,510	1,476	1,418
52	52,00	41,2544	52,90	50,92	50,40	1,533	1,510	1,475	1,418
53	53,00	42,0477	53,90	51,92	51,40	1,533	1,510	1,475	1,417
54	54,00	42,8411	54,90	52,92	52,40	1,532	1,509	1,475	1,417
55	55,00	43,6344	55,90	53,92	53,40	1,532	1,509	1,474	1,416
56	56,00	44,4278	56,90	54,92	54,40	1,532	1,509	1,474	1,416
57	57,00	45,2211	57,90	55,92	55,40	1,532	1,509	1,474	1,415
58	58,00	46,0145	58,90	56,92	56,40	1,532	1,509	1,474	1,415
59	59,00	46,8078	59,90	57,92	57,40	1,532	1,508	1,473	1,415
60	60,00	47,6012	60,90	58,92	58,40	1,532	1,508	1,473	1,414
61	61,00	48,3946	61,90	59,92	59,40	1,532	1,508	1,473	1,414
62	62,00	49,1879	62,90	60,92	60,39	1,532	1,508	1,472	1,413
63	63,00	49,9813	63,90	61,92	61,39	1,531	1,508	1,472	1,413
64	64,00	50,7746	64,90	62,92	62,39	1,531	1,508	1,472	1,412
65	65,00	51,5680	65,90	63,92	63,39	1,531	1,507	1,472	1,412
66	66,00	52,3613	66,90	64,92	64,39	1,531	1,507	1,471	1,412
67	67,00	53,1547	67,90	65,92	65,39	1,531	1,507	1,471	1,411
68	68,00	53,9480	68,90	66,92	66,39	1,531	1,507	1,471	1,411
69	69,00	54,7414	69,90	67,92	67,39	1,531	1,507	1,471	1,410
70	70,00	55,5347	70,90	68,91	68,39	1,531	1,507	1,470	1,410
71	71,00	56,3281	71,90	69,91	69,39	1,531	1,506	1,470	1,410
72	72,00	57,1214	72,90	70,91	70,39	1,531	1,506	1,470	1,409
73	73,00	57,9148	73,90	71,91	71,39	1,530	1,506	1,470	1,409
74	74,00	58,7081	74,90	72,91	72,39	1,530	1,506	1,469	1,409
75	75,00	59,5015	75,90	73,91	73,39	1,530	1,506	1,469	1,408
76	76,00	60,2949	76,90	74,91	74,39	1,530	1,506	1,469	1,408
77	77,00	61,0882	77,90	75,91	75,39	1,530	1,506	1,469	1,407
78	78,00	61,8816	78,90	76,91	76,39	1,530	1,505	1,469	1,407
79	79,00	62,6749	79,90	77,91	77,39	1,530	1,505	1,468	1,407
80	80,00	63,4683	80,90	78,91	78,39	1,530	1,505	1,468	1,406
81	81,00	64,2616	81,90	79,91	79,38	1,530	1,505	1,468	1,406
82	82,00	65,0550	82,90	80,91	80,38	1,530	1,505	1,468	1,406
83	83,00	65,8483	83,90	81,91	81,38	1,530	1,505	1,467	1,405
84	84,00	66,6417	84,90	82,91	82,38	1,529	1,505	1,467	1,405
85	85,00	67,4350	85,90	83,91	83,38	1,529	1,504	1,467	1,405
86	86,00	68,2284	86,90	84,91	84,38	1,529	1,504	1,467	1,404
87	87,00	69,0217	87,90	85,91	85,38	1,529	1,504	1,467	1,404
88	88,00	69,8151	88,90	86,91	86,38	1,529	1,504	1,466	1,403
89	89,00	70,6084	89,90	87,91	87,38	1,529	1,504	1,466	1,403
90	90,00	71,4018	90,90	88,91	88,38	1,529	1,504	1,466	1,403
91	91,00	72,1952	91,90	89,91	89,38	1,529	1,504	1,466	1,402
92	92,00	72,9885	92,90	90,91	90,38	1,529	1,503	1,465	1,402
93	93,00	73,7819	93,90	91,91	91,38	1,529	1,503	1,465	1,402
94	94,00	74,5752	94,90	92,91	92,38	1,529	1,503	1,465	1,401
95	95,00	75,3686	95,90	93,91	93,38	1,529	1,503	1,465	1,401
96	96,00	76,1619	96,90	94,91	94,38	1,528	1,503	1,465	1,401
97	97,00	76,9553	97,90	95,91	95,38	1,528	1,503	1,464	1,400
98	98,00	77,7486	98,90	96,91	96,38	1,528	1,503	1,464	1,400
99	99,00	78,5420	99,90	97,91	97,38	1,528	1,503	1,464	1,400
100	100,00	79,3353	100,90	98,91	98,38	1,528	1,502	1,464	1,400

Table 67 — Inspection dimensions internal spline, $\alpha = 37{,}5°$, $m = 1$, $E_{v\,min} = 1{,}571$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	1,70	3,426	3,463	3,437	3,498	3,454	3,549	3,480	3,629	1,765
7	1,80	3,960	3,999	3,972	4,037	3,990	4,091	4,018	4,175	1,829
8	1,80	5,159	5,193	5,170	5,227	5,185	5,276	5,210	5,355	1,718
9	1,80	6,066	6,097	6,076	6,129	6,090	6,174	6,114	6,249	1,606
10	1,80	7,206	7,237	7,216	7,267	7,230	7,312	7,253	7,386	1,574
11	1,80	8,118	8,147	8,128	8,177	8,141	8,220	8,163	8,292	1,519
12	1,90	8,927	8,958	8,937	8,988	8,951	9,034	8,975	9,110	1,580
13	1,90	9,854	9,884	9,864	9,914	9,878	9,959	9,901	10,032	1,534
14	1,90	10,951	10,980	10,961	11,010	10,975	11,055	10,997	11,128	1,518
15	1,90	11,884	11,912	11,894	11,942	11,907	11,986	11,930	12,058	1,488
16	1,90	12,967	12,995	12,977	13,025	12,991	13,069	13,013	13,141	1,479
17	1,90	13,906	13,934	13,915	13,963	13,929	14,006	13,951	14,078	1,458
18	1,90	14,979	15,006	14,988	15,036	15,002	15,079	15,024	15,151	1,452
19	1,90	15,922	15,950	15,932	15,979	15,946	16,022	15,968	16,094	1,436
20	1,90	16,987	17,015	16,997	17,044	17,011	17,087	17,033	17,160	1,432
21	1,90	17,935	17,963	17,945	17,992	17,959	18,035	17,981	18,107	1,420
22	1,90	18,994	19,021	19,004	19,051	19,018	19,094	19,040	19,166	1,417
23	1,90	19,946	19,973	19,956	20,002	19,970	20,046	19,992	20,118	1,407
24	1,90	21,000	21,027	21,010	21,056	21,024	21,100	21,046	21,172	1,405
25	1,90	21,955	21,982	21,965	22,011	21,979	22,055	22,002	22,127	1,397
26	1,90	23,005	23,031	23,015	23,060	23,029	23,104	23,051	23,177	1,395
27	1,90	23,963	23,989	23,973	24,018	23,987	24,062	24,010	24,135	1,389
28	2,00	24,730	24,757	24,740	24,787	24,755	24,831	24,778	24,905	1,406
29	2,00	25,692	25,718	25,702	25,748	25,717	25,793	25,740	25,867	1,400
30	2,00	26,735	26,761	26,745	26,791	26,760	26,836	26,783	26,910	1,398
31	2,00	27,698	27,725	27,709	27,755	27,724	27,800	27,747	27,874	1,392
32	2,00	28,739	28,765	28,749	28,795	28,764	28,840	28,787	28,914	1,390
33	2,00	29,704	29,731	29,715	29,761	29,730	29,806	29,753	29,880	1,386
34	2,00	30,742	30,768	30,753	30,798	30,768	30,843	30,791	30,918	1,384
35	2,00	31,710	31,736	31,720	31,766	31,735	31,811	31,759	31,886	1,380
36	2,00	32,745	32,771	32,756	32,801	32,771	32,847	32,795	32,922	1,379
37	2,00	33,714	33,740	33,725	33,771	33,740	33,816	33,764	33,891	1,375
38	2,00	34,748	34,774	34,759	34,804	34,774	34,850	34,798	34,925	1,374
39	2,00	35,718	35,744	35,729	35,775	35,745	35,820	35,769	35,896	1,371
40	2,00	36,750	36,776	36,761	36,807	36,777	36,852	36,801	36,928	1,370
41	2,00	37,722	37,748	37,733	37,779	37,749	37,824	37,773	37,900	1,367
42	2,00	38,752	38,778	38,764	38,809	38,779	38,855	38,804	38,931	1,366
43	2,00	39,726	39,752	39,737	39,782	39,752	39,828	39,777	39,904	1,363
44	2,00	40,754	40,780	40,766	40,811	40,782	40,857	40,806	40,933	1,363
45	2,00	41,729	41,755	41,740	41,785	41,756	41,831	41,781	41,908	1,360
46	2,00	42,756	42,782	42,768	42,813	42,784	42,859	42,809	42,936	1,360
47	2,00	43,732	43,757	43,743	43,788	43,759	43,835	43,784	43,911	1,358
48	2,00	44,758	44,784	44,770	44,815	44,786	44,861	44,811	44,938	1,357
49	2,00	45,734	45,760	45,746	45,791	45,762	45,837	45,787	45,915	1,355
50	2,00	46,760	46,785	46,771	46,816	46,788	46,863	46,813	46,940	1,355
51	2,00	47,737	47,762	47,748	47,794	47,765	47,840	47,790	47,918	1,353
52	2,00	48,761	48,787	48,773	48,818	48,789	48,865	48,815	48,943	1,352
53	2,00	49,739	49,765	49,751	49,796	49,767	49,843	49,793	49,921	1,351
54	2,00	50,763	50,788	50,774	50,819	50,791	50,866	50,817	50,945	1,350
55	2,00	51,741	51,767	51,753	51,798	51,770	51,845	51,796	51,924	1,349
56	2,00	52,764	52,789	52,776	52,821	52,792	52,868	52,819	52,946	1,348
57	2,00	53,743	53,769	53,755	53,800	53,772	53,848	53,798	53,926	1,347
58	2,00	54,765	54,790	54,777	54,822	54,794	54,869	54,820	54,948	1,347
59	2,00	55,745	55,770	55,757	55,802	55,774	55,850	55,801	55,929	1,345
60	2,00	56,766	56,791	56,778	56,823	56,795	56,871	56,822	56,950	1,345
61	2,00	57,747	57,772	57,759	57,804	57,776	57,852	57,803	57,931	1,344
62	2,00	58,767	58,793	58,780	58,824	58,797	58,872	58,824	58,952	1,343
63	2,00	59,749	59,774	59,761	59,806	59,778	59,854	59,805	59,933	1,342
64	2,00	60,768	60,793	60,781	60,826	60,798	60,874	60,825	60,953	1,342
65	2,00	61,750	61,775	61,763	61,807	61,780	61,856	61,807	61,936	1,341
66	2,00	62,769	62,794	62,782	62,827	62,799	62,875	62,827	62,955	1,341
67	2,00	63,752	63,777	63,764	63,809	63,782	63,857	63,809	63,938	1,340
68	2,00	64,770	64,795	64,783	64,828	64,800	64,876	64,828	64,957	1,339
69	2,00	65,753	65,778	65,766	65,810	65,783	65,859	65,811	65,940	1,339
70	2,00	66,771	66,796	66,784	66,829	66,802	66,877	66,829	66,958	1,338
71	2,00	67,754	67,779	67,767	67,812	67,785	67,861	67,813	67,942	1,337
72	2,00	68,772	68,797	68,785	68,829	68,803	68,878	68,831	68,959	1,337
73	2,00	69,756	69,781	69,769	69,813	69,787	69,862	69,815	69,943	1,336
74	2,00	70,773	70,798	70,786	70,830	70,804	70,879	70,832	70,961	1,336
75	2,00	71,757	71,782	71,770	71,815	71,788	71,864	71,816	71,945	1,335
76	2,00	72,774	72,798	72,787	72,831	72,805	72,880	72,833	72,962	1,335
77	2,00	73,758	73,783	73,771	73,816	73,790	73,865	73,818	73,947	1,334
78	2,00	74,774	74,799	74,787	74,832	74,806	74,881	74,834	74,963	1,334
79	2,00	75,759	75,784	75,772	75,817	75,791	75,866	75,820	75,949	1,334
80	2,00	76,775	76,800	76,788	76,833	76,807	76,882	76,835	76,965	1,333
81	2,00	77,760	77,785	77,774	77,818	77,792	77,868	77,821	77,950	1,333
82	2,00	78,776	78,800	78,789	78,834	78,808	78,883	78,837	78,966	1,333
83	2,00	79,761	79,786	79,775	79,819	79,794	79,869	79,823	79,952	1,332
84	2,00	80,776	80,801	80,790	80,834	80,809	80,884	80,838	80,967	1,332
85	2,00	81,762	81,787	81,776	81,820	81,795	81,870	81,824	81,954	1,331
86	2,00	82,777	82,802	82,791	82,835	82,810	82,885	82,839	82,968	1,331
87	2,00	83,763	83,788	83,777	83,821	83,796	83,872	83,825	83,955	1,331
88	2,00	84,778	84,802	84,791	84,836	84,810	84,886	84,840	84,970	1,330
89	2,00	85,764	85,789	85,778	85,822	85,797	85,873	85,827	85,957	1,330
90	2,00	86,778	86,803	86,792	86,836	86,811	86,887	86,841	86,971	1,330
91	2,00	87,765	87,790	87,779	87,823	87,798	87,874	87,828	87,958	1,329
92	2,00	88,779	88,803	88,793	88,837	88,812	88,888	88,842	88,972	1,329
93	2,00	89,766	89,790	89,780	89,824	89,799	89,875	89,829	89,959	1,329
94	2,00	90,779	90,804	90,793	90,838	90,813	90,888	90,843	90,973	1,329
95	2,00	91,767	91,791	91,781	91,825	91,800	91,876	91,831	91,961	1,328
96	2,00	92,780	92,804	92,794	92,838	92,814	92,889	92,844	92,974	1,328
97	2,00	93,768	93,792	93,782	93,826	93,801	93,877	93,832	93,962	1,327
98	2,00	94,781	94,805	94,795	94,839	94,814	94,890	94,845	94,975	1,327
99	2,00	95,768	95,793	95,783	95,827	95,802	95,878	95,833	95,963	1,327
100	2,00	96,781	96,805	96,795	96,839	96,815	96,891	96,846	96,976	1,327

Table 68 — Inspection dimensions external spline, $\alpha = 37{,}5°$, $m = 1$, $S_{v\,max} = 1{,}571$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	2,65	10,565	10,582	10,547	10,577	10,521	10,569	10,477	10,556	0,999
7	2,50	11,031	11,048	11,013	11,043	10,986	11,035	10,941	11,022	1,008
8	2,50	12,270	12,289	12,251	12,283	12,223	12,275	12,176	12,261	1,051
9	2,36	12,798	12,818	12,779	12,811	12,750	12,803	12,701	12,788	1,066
10	2,36	13,972	13,992	13,952	13,985	13,922	13,976	13,871	13,961	1,095
11	2,36	14,854	14,874	14,834	14,868	14,803	14,858	14,752	14,843	1,095
12	2,24	15,704	15,724	15,682	15,717	15,651	15,708	15,597	15,692	1,131
13	2,24	16,605	16,626	16,584	16,619	16,552	16,609	16,498	16,593	1,132
14	2,24	17,717	17,738	17,695	17,731	17,662	17,721	17,607	17,704	1,148
15	2,24	18,632	18,653	18,610	18,646	18,577	18,636	18,521	18,619	1,149
16	2,24	19,727	19,749	19,705	19,741	19,671	19,731	19,615	19,714	1,162
17	2,24	20,653	20,674	20,630	20,667	20,596	20,656	20,539	20,639	1,163
18	2,24	21,736	21,758	21,713	21,750	21,678	21,739	21,620	21,722	1,174
19	2,12	22,372	22,394	22,349	22,386	22,313	22,375	22,254	22,358	1,187
20	2,12	23,444	23,466	23,420	23,459	23,385	23,447	23,325	23,429	1,196
21	2,12	24,384	24,407	24,360	24,399	24,324	24,387	24,264	24,369	1,197
22	2,12	25,449	25,471	25,425	25,463	25,388	25,452	25,327	25,433	1,204
23	2,12	26,394	26,417	26,370	26,408	26,333	26,397	26,272	26,378	1,204
24	2,12	27,453	27,475	27,428	27,467	27,391	27,455	27,329	27,436	1,211
25	2,12	28,403	28,425	28,378	28,417	28,340	28,405	28,278	28,386	1,211
26	2,12	29,456	29,479	29,431	29,470	29,393	29,458	29,330	29,439	1,216
27	2,12	30,410	30,433	30,385	30,424	30,347	30,412	30,283	30,392	1,217
28	2,12	31,459	31,482	31,434	31,473	31,395	31,461	31,332	31,441	1,222
29	2,12	32,416	32,439	32,390	32,430	32,352	32,418	32,288	32,398	1,222
30	2,12	33,462	33,485	33,436	33,476	33,397	33,463	33,332	33,443	1,226
31	2,12	34,421	34,444	34,395	34,435	34,356	34,423	34,291	34,402	1,227
32	2,12	35,464	35,487	35,438	35,478	35,399	35,465	35,333	35,444	1,230
33	2,12	36,426	36,449	36,400	36,440	36,360	36,427	36,294	36,406	1,231
34	2,12	37,466	37,489	37,439	37,480	37,400	37,467	37,333	37,446	1,234
35	2,12	38,430	38,453	38,404	38,444	38,364	38,431	38,297	38,410	1,235
36	2,12	39,468	39,491	39,441	39,481	39,401	39,468	39,334	39,447	1,238
37	2,12	40,434	40,457	40,407	40,448	40,367	40,434	40,299	40,413	1,238
38	2,12	41,469	41,493	41,442	41,483	41,402	41,469	41,334	41,448	1,241
39	2,12	42,437	42,461	42,410	42,451	42,369	42,437	42,301	42,415	1,241
40	2,12	43,471	43,494	43,443	43,484	43,402	43,470	43,334	43,448	1,243
41	2,12	44,440	44,464	44,413	44,454	44,372	44,440	44,303	44,418	1,244
42	2,12	45,472	45,495	45,444	45,485	45,403	45,471	45,334	45,449	1,246
43	2,12	46,443	46,466	46,415	46,456	46,374	46,442	46,304	46,420	1,246
44	2,12	47,473	47,496	47,445	47,486	47,403	47,472	47,334	47,450	1,248
45	2,12	48,445	48,469	48,417	48,458	48,375	48,444	48,305	48,421	1,249
46	2,12	49,474	49,497	49,446	49,487	49,404	49,473	49,333	49,450	1,250
47	2,12	50,448	50,471	50,419	50,461	50,377	50,446	50,306	50,423	1,251
48	2,12	51,475	51,498	51,447	51,488	51,404	51,473	51,333	51,450	1,252
49	2,12	52,450	52,473	52,421	52,462	52,378	52,448	52,307	52,424	1,253
50	2,12	53,476	53,499	53,447	53,489	53,404	53,474	53,333	53,450	1,254
51	2,12	54,451	54,475	54,423	54,464	54,380	54,449	54,308	54,426	1,255
52	2,12	55,477	55,500	55,448	55,489	55,405	55,474	55,333	55,451	1,256
53	2,12	56,453	56,477	56,424	56,466	56,381	56,451	56,309	56,427	1,256
54	2,12	57,477	57,501	57,448	57,490	57,405	57,475	57,332	57,451	1,258
55	2,12	58,455	58,478	58,426	58,467	58,382	58,452	58,309	58,428	1,258
56	2,12	59,478	59,501	59,449	59,490	59,405	59,475	59,332	59,451	1,259
57	2,12	60,456	60,480	60,427	60,468	60,383	60,453	60,309	60,429	1,259
58	2,12	61,479	61,502	61,449	61,491	61,405	61,475	61,331	61,451	1,261
59	2,12	62,457	62,481	62,428	62,470	62,384	62,454	62,310	62,429	1,261
60	2,12	63,479	63,503	63,449	63,491	63,405	63,475	63,331	63,451	1,262
61	2,12	64,459	64,482	64,429	64,471	64,384	64,455	64,310	64,430	1,262
62	2,12	65,480	65,503	65,450	65,492	65,405	65,476	65,330	65,451	1,263
63	2,12	66,460	66,483	66,430	66,472	66,385	66,456	66,310	66,431	1,263
64	2,12	67,480	67,503	67,450	67,492	67,405	67,476	67,330	67,450	1,264
65	2,12	68,461	68,484	68,431	68,473	68,386	68,456	68,310	68,431	1,265
66	2,12	69,480	69,504	69,450	69,492	69,405	69,476	69,329	69,450	1,265
67	2,12	70,462	70,485	70,432	70,474	70,386	70,457	70,310	70,431	1,266
68	2,12	71,481	71,504	71,450	71,492	71,405	71,476	71,329	71,450	1,267
69	2,12	72,463	72,486	72,432	72,474	72,387	72,458	72,310	72,432	1,267
70	2,12	73,481	73,505	73,451	73,493	73,405	73,476	73,328	73,450	1,268
71	2,12	74,464	74,487	74,433	74,475	74,387	74,458	74,310	74,432	1,268
72	2,12	75,481	75,505	75,451	75,493	75,405	75,476	75,328	75,450	1,268
73	2,12	76,464	76,488	76,434	76,476	76,387	76,459	76,310	76,432	1,269
74	2,12	77,482	77,505	77,451	77,493	77,405	77,476	77,327	77,449	1,269
75	2,12	78,465	78,489	78,434	78,476	78,388	78,459	78,310	78,433	1,269
76	2,12	79,482	79,505	79,451	79,493	79,404	79,476	79,327	79,449	1,270
77	2,12	80,466	80,489	80,435	80,477	80,388	80,460	80,310	80,433	1,270
78	2,12	81,482	81,506	81,451	81,493	81,404	81,476	81,326	81,449	1,271
79	2,12	82,467	82,490	82,435	82,477	82,388	82,460	82,310	82,433	1,271
80	2,12	83,483	83,506	83,451	83,493	83,404	83,476	83,326	83,449	1,272
81	2,12	84,467	84,491	84,436	84,478	84,389	84,460	84,310	84,433	1,272
82	2,12	85,483	85,506	85,451	85,493	85,404	85,476	85,325	85,448	1,273
83	2,12	86,468	86,491	86,436	86,478	86,389	86,461	86,310	86,433	1,273
84	2,12	87,483	87,506	87,451	87,494	87,404	87,476	87,325	87,448	1,273
85	2,12	88,468	88,492	88,437	88,479	88,389	88,461	88,310	88,433	1,273
86	2,12	89,483	89,506	89,451	89,494	89,404	89,476	89,324	89,448	1,274
87	2,12	90,469	90,492	90,437	90,479	90,389	90,461	90,309	90,433	1,274
88	2,12	91,483	91,507	91,451	91,494	91,403	91,475	91,323	91,447	1,275
89	2,12	92,469	92,493	92,437	92,480	92,389	92,461	92,309	92,433	1,275
90	2,12	93,483	93,507	93,451	93,494	93,403	93,475	93,323	93,447	1,275
91	2,12	94,470	94,493	94,438	94,480	94,389	94,462	94,309	94,433	1,275
92	2,12	95,484	95,507	95,451	95,494	95,403	95,475	95,322	95,447	1,276
93	2,12	96,470	96,493	96,438	96,480	96,389	96,462	96,308	96,433	1,276
94	2,12	97,484	97,507	97,451	97,494	97,403	97,475	97,322	97,446	1,276
95	2,12	98,471	98,494	98,438	98,480	98,389	98,462	98,308	98,433	1,276
96	2,12	99,484	99,507	99,451	99,494	99,402	99,475	99,321	99,446	1,277
97	2,12	100,471	100,494	100,438	100,481	100,389	100,462	100,308	100,433	1,277
98	2,12	101,484	101,507	101,451	101,494	101,402	101,475	101,320	101,446	1,277
99	2,12	102,471	102,495	102,439	102,481	102,390	102,462	102,308	102,433	1,277
100	2,12	103,484	103,507	103,451	103,494	103,402	103,475	103,320	103,445	1,278

5.18 37,5° pressure angle, module 1,25

Table 69 — Geometry internal spline, $\alpha = 37{,}5°$, $m = 1{,}25$, fillet root, $E_{\text{v min}} = 1{,}963$

z	D	D_b	$D_{\text{ei max}}$	$D_{\text{Fi min}}$	$D_{\text{ii min}}$	E_{max}			
						4H	5H	6H	7H
6	7,50	5,9502	9,41	8,88	6,63	1,994	2,013	2,042	2,089
7	8,75	6,9418	10,67	10,13	7,84	1,995	2,014	2,043	2,091
8	10,00	7,9335	11,92	11,38	9,06	1,995	2,015	2,044	2,093
9	11,25	8,9252	13,17	12,63	10,29	1,996	2,015	2,045	2,094
10	12,50	9,9169	14,42	13,88	11,52	1,996	2,016	2,046	2,096
11	13,75	10,9086	15,67	15,13	12,75	1,997	2,017	2,047	2,097
12	15,00	11,9003	16,93	16,38	13,99	1,997	2,017	2,048	2,098
13	16,25	12,8920	18,18	17,63	15,23	1,997	2,018	2,048	2,100
14	17,50	13,8837	19,43	18,88	16,47	1,997	2,018	2,049	2,101
15	18,75	14,8754	20,68	20,13	17,72	1,998	2,019	2,050	2,102
16	20,00	15,8671	21,93	21,38	18,96	1,998	2,019	2,051	2,103
17	21,25	16,8588	23,18	22,63	20,21	1,998	2,019	2,051	2,104
18	22,50	17,8505	24,44	23,88	21,45	1,999	2,020	2,052	2,105
19	23,75	18,8421	25,69	25,13	22,70	1,999	2,020	2,052	2,106
20	25,00	19,8338	26,94	26,38	23,94	1,999	2,021	2,053	2,107
21	26,25	20,8255	28,19	27,63	25,19	1,999	2,021	2,054	2,108
22	27,50	21,8172	29,44	28,88	26,44	1,999	2,021	2,054	2,109
23	28,75	22,8089	30,69	30,13	27,68	2,000	2,022	2,055	2,110
24	30,00	23,8006	31,94	31,38	28,93	2,000	2,022	2,055	2,111
25	31,25	24,7923	33,19	32,63	30,18	2,000	2,022	2,056	2,111
26	32,50	25,7840	34,44	33,88	31,43	2,000	2,023	2,056	2,112
27	33,75	26,7757	35,70	35,13	32,67	2,000	2,023	2,057	2,113
28	35,00	27,7674	36,95	36,38	33,92	2,001	2,023	2,057	2,114
29	36,25	28,7591	38,20	37,63	35,17	2,001	2,024	2,058	2,114
30	37,50	29,7508	39,45	38,88	36,42	2,001	2,024	2,058	2,115
31	38,75	30,7424	40,70	40,13	37,67	2,001	2,024	2,059	2,116
32	40,00	31,7341	41,95	41,38	38,92	2,001	2,024	2,059	2,117
33	41,25	32,7258	43,20	42,63	40,17	2,002	2,025	2,059	2,117
34	42,50	33,7175	44,45	43,88	41,41	2,002	2,025	2,060	2,118
35	43,75	34,7092	45,70	45,13	42,66	2,002	2,025	2,060	2,119
36	45,00	35,7009	46,95	46,38	43,91	2,002	2,026	2,061	2,119
37	46,25	36,6926	48,20	47,63	45,16	2,002	2,026	2,061	2,120
38	47,50	37,6843	49,46	48,88	46,41	2,002	2,026	2,061	2,121
39	48,75	38,6760	50,71	50,13	47,66	2,003	2,026	2,062	2,121
40	50,00	39,6677	51,96	51,38	48,91	2,003	2,027	2,062	2,122
41	51,25	40,6594	53,21	52,63	50,16	2,003	2,027	2,063	2,122
42	52,50	41,6511	54,46	53,88	51,41	2,003	2,027	2,063	2,123
43	53,75	42,6427	55,71	55,13	52,66	2,003	2,027	2,063	2,124
44	55,00	43,6344	56,96	56,38	53,90	2,003	2,027	2,064	2,124
45	56,25	44,6261	58,21	57,63	55,15	2,003	2,028	2,064	2,125
46	57,50	45,6178	59,46	58,88	56,40	2,004	2,028	2,064	2,125
47	58,75	46,6095	60,71	60,13	57,65	2,004	2,028	2,065	2,126
48	60,00	47,6012	61,96	61,38	58,90	2,004	2,028	2,065	2,126
49	61,25	48,5929	63,21	62,63	60,15	2,004	2,029	2,065	2,127
50	62,50	49,5846	64,46	63,88	61,40	2,004	2,029	2,066	2,127
51	63,75	50,5763	65,71	65,13	62,65	2,004	2,029	2,066	2,128
52	65,00	51,5680	66,97	66,38	63,90	2,004	2,029	2,066	2,128
53	66,25	52,5597	68,22	67,63	65,15	2,004	2,029	2,067	2,129
54	67,50	53,5514	69,47	68,88	66,40	2,005	2,030	2,067	2,129
55	68,75	54,5430	70,72	70,13	67,65	2,005	2,030	2,067	2,130
56	70,00	55,5347	71,97	71,38	68,90	2,005	2,030	2,068	2,130
57	71,25	56,5264	73,22	72,63	70,15	2,005	2,030	2,068	2,131
58	72,50	57,5181	74,47	73,88	71,40	2,005	2,030	2,068	2,131
59	73,75	58,5098	75,72	75,13	72,65	2,005	2,031	2,069	2,132
60	75,00	59,5015	76,97	76,38	73,90	2,005	2,031	2,069	2,132
61	76,25	60,4932	78,22	77,63	75,15	2,005	2,031	2,069	2,133
62	77,50	61,4849	79,47	78,88	76,40	2,006	2,031	2,069	2,133
63	78,75	62,4766	80,72	80,13	77,65	2,006	2,031	2,070	2,134
64	80,00	63,4683	81,97	81,38	78,90	2,006	2,031	2,070	2,134
65	81,25	64,4600	83,22	82,63	80,15	2,006	2,032	2,070	2,135
66	82,50	65,4517	84,47	83,88	81,39	2,006	2,032	2,071	2,135
67	83,75	66,4433	85,72	85,13	82,64	2,006	2,032	2,071	2,136
68	85,00	67,4350	86,98	86,38	83,89	2,006	2,032	2,071	2,136
69	86,25	68,4267	88,23	87,63	85,14	2,006	2,032	2,071	2,136
70	87,50	69,4184	89,48	88,88	86,39	2,006	2,033	2,072	2,137
71	88,75	70,4101	90,73	90,13	87,64	2,007	2,033	2,072	2,137
72	90,00	71,4018	91,98	91,38	88,89	2,007	2,033	2,072	2,138
73	91,25	72,3935	93,23	92,63	90,14	2,007	2,033	2,072	2,138
74	92,50	73,3852	94,48	93,88	91,39	2,007	2,033	2,073	2,139
75	93,75	74,3769	95,73	95,13	92,64	2,007	2,033	2,073	2,139
76	95,00	75,3686	96,98	96,38	93,89	2,007	2,034	2,073	2,139
77	96,25	76,3603	98,23	97,63	95,14	2,007	2,034	2,074	2,140
78	97,50	77,3520	99,48	98,88	96,39	2,007	2,034	2,074	2,140
79	98,75	78,3436	100,73	100,13	97,64	2,007	2,034	2,074	2,141
80	100,00	79,3353	101,98	101,38	98,89	2,008	2,034	2,074	2,141
81	101,25	80,3270	103,23	102,63	100,14	2,008	2,034	2,075	2,141
82	102,50	81,3187	104,48	103,88	101,39	2,008	2,035	2,075	2,142
83	103,75	82,3104	105,73	105,13	102,64	2,008	2,035	2,075	2,142
84	105,00	83,3021	106,98	106,38	103,89	2,008	2,035	2,075	2,143
85	106,25	84,2938	108,23	107,63	105,14	2,008	2,035	2,075	2,143
86	107,50	85,2855	109,49	108,88	106,39	2,008	2,035	2,076	2,143
87	108,75	86,2772	110,74	110,13	107,64	2,008	2,035	2,076	2,144
88	110,00	87,2689	111,99	111,38	108,89	2,008	2,035	2,076	2,144
89	111,25	88,2606	113,24	112,63	110,14	2,008	2,036	2,076	2,144
90	112,50	89,2523	114,49	113,88	111,39	2,008	2,036	2,077	2,145
91	113,75	90,2439	115,74	115,13	112,64	2,009	2,036	2,077	2,145
92	115,00	91,2356	116,99	116,38	113,89	2,009	2,036	2,077	2,146
93	116,25	92,2273	118,24	117,63	115,14	2,009	2,036	2,077	2,146
94	117,50	93,2190	119,49	118,88	116,39	2,009	2,036	2,078	2,146
95	118,75	94,2107	120,74	120,13	117,64	2,009	2,036	2,078	2,147
96	120,00	95,2024	121,99	121,38	118,89	2,009	2,037	2,078	2,147
97	121,25	96,1941	123,24	122,63	120,14	2,009	2,037	2,078	2,147
98	122,50	97,1858	124,49	123,88	121,39	2,009	2,037	2,078	2,148
99	123,75	98,1775	125,74	125,13	122,64	2,009	2,037	2,079	2,148
100	125,00	99,1692	126,99	126,38	123,89	2,009	2,037	2,079	2,148

Table 70 — Geometry external spline, $\alpha = 37{,}5°$, $m = 1{,}25$, fillet root, $S_{v\,max} = 1{,}963$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	7,50	5,9502	8,63	6,38	5,59	1,932	1,913	1,884	1,837
7	8,75	6,9418	9,88	7,59	6,83	1,931	1,912	1,883	1,835
8	10,00	7,9335	11,13	8,81	8,08	1,931	1,911	1,882	1,833
9	11,25	8,9252	12,38	10,04	9,33	1,930	1,911	1,881	1,832
10	12,50	9,9169	13,63	11,27	10,58	1,930	1,910	1,880	1,830
11	13,75	10,9086	14,88	12,50	11,83	1,929	1,909	1,879	1,829
12	15,00	11,9003	16,13	13,74	13,07	1,929	1,909	1,878	1,828
13	16,25	12,8920	17,38	14,98	14,32	1,929	1,908	1,878	1,826
14	17,50	13,8837	18,63	16,22	15,57	1,929	1,908	1,877	1,825
15	18,75	14,8754	19,88	17,47	16,82	1,928	1,907	1,876	1,824
16	20,00	15,8671	21,13	18,71	18,07	1,928	1,907	1,875	1,823
17	21,25	16,8588	22,38	19,96	19,32	1,928	1,907	1,875	1,822
18	22,50	17,8505	23,63	21,20	20,56	1,927	1,906	1,874	1,821
19	23,75	18,8421	24,88	22,45	21,81	1,927	1,906	1,874	1,820
20	25,00	19,8338	26,13	23,69	23,06	1,927	1,905	1,873	1,819
21	26,25	20,8255	27,38	24,94	24,31	1,927	1,905	1,872	1,818
22	27,50	21,8172	28,63	26,19	25,56	1,927	1,905	1,872	1,817
23	28,75	22,8089	29,88	27,43	26,81	1,926	1,904	1,871	1,816
24	30,00	23,8006	31,13	28,68	28,06	1,926	1,904	1,871	1,815
25	31,25	24,7923	32,38	29,93	29,31	1,926	1,904	1,870	1,815
26	32,50	25,7840	33,63	31,18	30,56	1,926	1,903	1,870	1,814
27	33,75	26,7757	34,88	32,42	31,80	1,926	1,903	1,869	1,813
28	35,00	27,7674	36,13	33,67	33,05	1,925	1,903	1,869	1,812
29	36,25	28,7591	37,38	34,92	34,30	1,925	1,902	1,868	1,812
30	37,50	29,7508	38,63	36,17	35,55	1,925	1,902	1,868	1,811
31	38,75	30,7424	39,88	37,42	36,80	1,925	1,902	1,867	1,810
32	40,00	31,7341	41,13	38,67	38,05	1,925	1,902	1,867	1,809
33	41,25	32,7258	42,38	39,92	39,30	1,924	1,901	1,867	1,809
34	42,50	33,7175	43,63	41,16	40,55	1,924	1,901	1,866	1,808
35	43,75	34,7092	44,88	42,41	41,80	1,924	1,901	1,866	1,807
36	45,00	35,7009	46,13	43,66	43,05	1,924	1,900	1,865	1,807
37	46,25	36,6926	47,38	44,91	44,30	1,924	1,900	1,865	1,806
38	47,50	37,6843	48,63	46,16	45,54	1,924	1,900	1,865	1,805
39	48,75	38,6760	49,88	47,41	46,79	1,923	1,900	1,864	1,805
40	50,00	39,6677	51,13	48,66	48,04	1,923	1,899	1,864	1,804
41	51,25	40,6594	52,38	49,91	49,29	1,923	1,899	1,863	1,804
42	52,50	41,6511	53,63	51,16	50,54	1,923	1,899	1,863	1,803
43	53,75	42,6427	54,88	52,41	51,79	1,923	1,899	1,863	1,802
44	55,00	43,6344	56,13	53,65	53,04	1,923	1,899	1,862	1,802
45	56,25	44,6261	57,38	54,90	54,29	1,923	1,898	1,862	1,801
46	57,50	45,6178	58,63	56,15	55,54	1,922	1,898	1,862	1,801
47	58,75	46,6095	59,88	57,40	56,79	1,922	1,898	1,861	1,800
48	60,00	47,6012	61,13	58,65	58,04	1,922	1,898	1,861	1,800
49	61,25	48,5929	62,38	59,90	59,29	1,922	1,897	1,861	1,799
50	62,50	49,5846	63,63	61,15	60,54	1,922	1,897	1,860	1,799
51	63,75	50,5763	64,88	62,40	61,79	1,922	1,897	1,860	1,798
52	65,00	51,5680	66,13	63,65	63,03	1,922	1,897	1,860	1,798
53	66,25	52,5597	67,38	64,90	64,28	1,922	1,897	1,859	1,797
54	67,50	53,5514	68,63	66,15	65,53	1,921	1,896	1,859	1,797
55	68,75	54,5430	69,88	67,40	66,78	1,921	1,896	1,859	1,796
56	70,00	55,5347	71,13	68,65	68,03	1,921	1,896	1,858	1,796
57	71,25	56,5264	72,38	69,90	69,28	1,921	1,896	1,858	1,795
58	72,50	57,5181	73,63	71,15	70,53	1,921	1,896	1,858	1,795
59	73,75	58,5098	74,88	72,40	71,78	1,921	1,895	1,857	1,794
60	75,00	59,5015	76,13	73,65	73,03	1,921	1,895	1,857	1,794
61	76,25	60,4932	77,38	74,90	74,28	1,921	1,895	1,857	1,793
62	77,50	61,4849	78,63	76,15	75,53	1,920	1,895	1,857	1,793
63	78,75	62,4766	79,88	77,40	76,78	1,920	1,895	1,856	1,792
64	80,00	63,4683	81,13	78,65	78,03	1,920	1,895	1,856	1,792
65	81,25	64,4600	82,38	79,90	79,28	1,920	1,894	1,856	1,791
66	82,50	65,4517	83,63	81,14	80,53	1,920	1,894	1,855	1,791
67	83,75	66,4433	84,88	82,39	81,78	1,920	1,894	1,855	1,790
68	85,00	67,4350	86,13	83,64	83,02	1,920	1,894	1,855	1,790
69	86,25	68,4267	87,38	84,89	84,27	1,920	1,894	1,855	1,790
70	87,50	69,4184	88,63	86,14	85,52	1,920	1,893	1,854	1,789
71	88,75	70,4101	89,88	87,39	86,77	1,919	1,893	1,854	1,789
72	90,00	71,4018	91,13	88,64	88,02	1,919	1,893	1,854	1,788
73	91,25	72,3935	92,38	89,89	89,27	1,919	1,893	1,854	1,788
74	92,50	73,3852	93,63	91,14	90,52	1,919	1,893	1,853	1,787
75	93,75	74,3769	94,88	92,39	91,77	1,919	1,893	1,853	1,787
76	95,00	75,3686	96,13	93,64	93,02	1,919	1,892	1,853	1,787
77	96,25	76,3603	97,38	94,89	94,27	1,919	1,892	1,852	1,786
78	97,50	77,3520	98,63	96,14	95,52	1,919	1,892	1,852	1,786
79	98,75	78,3436	99,88	97,39	96,77	1,919	1,892	1,852	1,785
80	100,00	79,3353	101,13	98,64	98,02	1,918	1,892	1,852	1,785
81	101,25	80,3270	102,38	99,89	99,27	1,918	1,892	1,851	1,785
82	102,50	81,3187	103,63	101,14	100,52	1,918	1,891	1,851	1,784
83	103,75	82,3104	104,88	102,39	101,77	1,918	1,891	1,851	1,784
84	105,00	83,3021	106,13	103,64	103,02	1,918	1,891	1,851	1,783
85	106,25	84,2938	107,38	104,89	104,27	1,918	1,891	1,851	1,783
86	107,50	85,2855	108,63	106,14	105,51	1,918	1,891	1,850	1,783
87	108,75	86,2772	109,88	107,39	106,76	1,918	1,891	1,850	1,782
88	110,00	87,2689	111,13	108,64	108,01	1,918	1,891	1,850	1,782
89	111,25	88,2606	112,38	109,89	109,26	1,918	1,890	1,850	1,782
90	112,50	89,2523	113,63	111,14	110,51	1,918	1,890	1,849	1,781
91	113,75	90,2439	114,88	112,39	111,76	1,917	1,890	1,849	1,781
92	115,00	91,2356	116,13	113,64	113,01	1,917	1,890	1,849	1,780
93	116,25	92,2273	117,38	114,89	114,26	1,917	1,890	1,849	1,780
94	117,50	93,2190	118,63	116,14	115,51	1,917	1,890	1,848	1,780
95	118,75	94,2107	119,88	117,39	116,76	1,917	1,890	1,848	1,779
96	120,00	95,2024	121,13	118,64	118,01	1,917	1,889	1,848	1,779
97	121,25	96,1941	122,38	119,89	119,26	1,917	1,889	1,848	1,779
98	122,50	97,1858	123,63	121,14	120,51	1,917	1,889	1,848	1,778
99	123,75	98,1775	124,88	122,39	121,76	1,917	1,889	1,847	1,778
100	125,00	99,1692	126,13	123,64	123,01	1,917	1,889	1,847	1,778

Table 71 — Inspection dimensions, internal spline, $\alpha = 37{,}5°$, $m = 1{,}25$, $E_{v\,min} = 1{,}963$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	2,12	4,296	4,336	4,308	4,374	4,325	4,429	4,352	4,516	1,792
7	2,24	4,983	5,025	4,996	5,065	5,014	5,123	5,043	5,214	1,845
8	2,24	6,478	6,516	6,489	6,552	6,506	6,605	6,532	6,690	1,728
9	2,24	7,610	7,644	7,621	7,678	7,636	7,727	7,660	7,808	1,613
10	2,24	9,035	9,068	9,045	9,101	9,060	9,149	9,084	9,229	1,579
11	2,36	9,805	9,839	9,816	9,873	9,831	9,923	9,856	10,005	1,612
12	2,36	11,201	11,234	11,212	11,267	11,227	11,317	11,251	11,398	1,581
13	2,36	12,359	12,391	12,369	12,423	12,384	12,471	12,408	12,551	1,535
14	2,36	13,730	13,761	13,740	13,794	13,755	13,842	13,778	13,921	1,519
15	2,36	14,895	14,926	14,905	14,958	14,920	15,005	14,943	15,083	1,489
16	2,36	16,249	16,280	16,259	16,311	16,274	16,359	16,297	16,437	1,480
17	2,36	17,422	17,452	17,432	17,483	17,446	17,530	17,470	17,608	1,459
18	2,36	18,763	18,793	18,773	18,824	18,788	18,871	18,811	18,949	1,453
19	2,36	19,942	19,971	19,952	20,003	19,967	20,050	19,990	20,127	1,437
20	2,36	21,273	21,303	21,283	21,334	21,298	21,381	21,322	21,459	1,433
21	2,36	22,458	22,487	22,468	22,518	22,483	22,565	22,506	22,643	1,421
22	2,36	23,781	23,811	23,792	23,842	23,807	23,889	23,830	23,967	1,418
23	2,36	24,971	25,000	24,981	25,031	24,996	25,078	25,020	25,156	1,408
24	2,36	26,288	26,317	26,299	26,348	26,314	26,395	26,337	26,473	1,405
25	2,50	27,090	27,119	27,100	27,151	27,116	27,199	27,140	27,278	1,423
26	2,50	28,402	28,431	28,413	28,463	28,428	28,511	28,453	28,591	1,420
27	2,50	29,601	29,630	29,612	29,662	29,627	29,710	29,652	29,790	1,412
28	2,50	30,908	30,938	30,919	30,970	30,935	31,018	30,960	31,098	1,409
29	2,50	32,111	32,139	32,122	32,172	32,137	32,220	32,162	32,300	1,403
30	2,50	33,414	33,443	33,425	33,475	33,441	33,524	33,466	33,604	1,400
31	2,50	34,619	34,648	34,630	34,680	34,646	34,728	34,671	34,808	1,395
32	2,50	35,919	35,948	35,930	35,980	35,946	36,028	35,971	36,109	1,393
33	2,50	37,126	37,155	37,138	37,187	37,154	37,236	37,179	37,316	1,388
34	2,50	38,423	38,452	38,435	38,484	38,451	38,533	38,476	38,614	1,386
35	2,50	39,633	39,661	39,644	39,694	39,660	39,742	39,686	39,823	1,382
36	2,50	40,927	40,955	40,939	40,988	40,955	41,037	40,981	41,118	1,381
37	2,50	42,139	42,167	42,150	42,200	42,167	42,248	42,192	42,330	1,377
38	2,50	43,431	43,459	43,442	43,491	43,459	43,540	43,485	43,622	1,376
39	2,50	44,644	44,672	44,656	44,705	44,672	44,754	44,698	44,835	1,373
40	2,50	45,934	45,962	45,945	45,995	45,962	46,044	45,988	46,126	1,372
41	2,50	47,149	47,177	47,160	47,209	47,177	47,259	47,203	47,341	1,369
42	2,50	48,436	48,464	48,448	48,497	48,465	48,547	48,491	48,629	1,368
43	2,50	49,653	49,681	49,665	49,714	49,682	49,763	49,708	49,846	1,365
44	2,50	50,939	50,967	50,951	51,000	50,968	51,050	50,995	51,132	1,364
45	2,50	52,157	52,184	52,169	52,218	52,186	52,267	52,213	52,350	1,362
46	2,50	53,441	53,469	53,453	53,502	53,471	53,552	53,497	53,635	1,361
47	2,50	54,660	54,688	54,673	54,721	54,690	54,771	54,717	54,854	1,359
48	2,50	55,943	55,971	55,956	56,004	55,973	56,054	56,000	56,138	1,359
49	2,50	57,164	57,191	57,176	57,225	57,193	57,275	57,221	57,358	1,357
50	2,50	58,445	58,473	58,458	58,506	58,475	58,557	58,503	58,640	1,356
51	2,50	59,667	59,694	59,679	59,728	59,697	59,778	59,724	59,862	1,354
52	2,50	60,947	60,975	60,960	61,008	60,977	61,059	61,005	61,143	1,354
53	2,50	62,169	62,197	62,182	62,231	62,200	62,281	62,228	62,366	1,352
54	2,50	63,449	63,476	63,461	63,510	63,479	63,561	63,507	63,645	1,352
55	2,50	64,672	64,699	64,685	64,733	64,703	64,784	64,731	64,869	1,350
56	2,50	65,950	65,978	65,963	66,012	65,981	66,063	66,009	66,148	1,350
57	2,50	67,175	67,202	67,188	67,236	67,206	67,287	67,234	67,372	1,348
58	2,50	68,452	68,479	68,465	68,513	68,483	68,564	68,512	68,650	1,348
59	2,50	69,677	69,704	69,690	69,738	69,708	69,790	69,737	69,875	1,346
60	2,50	70,953	70,980	70,966	71,015	70,985	71,066	71,014	71,152	1,346
61	2,50	72,179	72,206	72,192	72,241	72,211	72,292	72,240	72,378	1,345
62	2,50	73,455	73,482	73,468	73,516	73,486	73,568	73,515	73,654	1,345
63	2,50	74,681	74,708	74,695	74,743	74,713	74,794	74,742	74,881	1,343
64	2,50	75,956	75,983	75,969	76,017	75,988	76,069	76,017	76,156	1,343
65	2,50	77,183	77,210	77,197	77,245	77,215	77,297	77,245	77,383	1,342
66	2,50	78,457	78,484	78,471	78,519	78,490	78,571	78,519	78,657	1,342
67	2,50	79,685	79,712	79,699	79,747	79,718	79,799	79,747	79,886	1,341
68	2,50	80,958	80,985	80,972	81,020	80,991	81,072	81,021	81,159	1,341
69	2,50	82,187	82,214	82,200	82,248	82,220	82,301	82,249	82,388	1,340
70	2,50	83,459	83,486	83,473	83,521	83,492	83,574	83,522	83,661	1,339
71	2,50	84,688	84,715	84,702	84,750	84,722	84,803	84,752	84,890	1,338
72	2,50	85,960	85,987	85,974	86,022	85,994	86,075	86,024	86,163	1,338
73	2,50	87,190	87,217	87,204	87,252	87,223	87,305	87,254	87,393	1,337
74	2,50	88,461	88,488	88,475	88,523	88,495	88,576	88,525	88,664	1,337
75	2,50	89,691	89,718	89,706	89,753	89,725	89,806	89,756	89,895	1,336
76	2,50	90,962	90,989	90,976	91,024	90,996	91,077	91,027	91,166	1,336
77	2,50	92,193	92,219	92,207	92,255	92,227	92,308	92,258	92,397	1,335
78	2,50	93,463	93,490	93,477	93,525	93,497	93,579	93,528	93,667	1,335
79	2,50	94,694	94,721	94,709	94,756	94,729	94,810	94,760	94,899	1,335
80	2,50	95,964	95,990	95,978	96,026	95,998	96,080	96,030	96,169	1,334
81	2,50	97,196	97,222	97,210	97,258	97,230	97,311	97,262	97,401	1,334
82	2,50	98,465	98,491	98,479	98,527	98,500	98,581	98,531	98,670	1,334
83	2,50	99,697	99,723	99,711	99,759	99,732	99,813	99,763	99,903	1,333
84	2,50	100,966	100,992	100,980	101,028	101,001	101,082	101,032	101,172	1,333
85	2,50	102,198	102,224	102,213	102,260	102,233	102,314	102,265	102,404	1,332
86	2,50	103,466	103,493	103,481	103,529	103,502	103,583	103,534	103,673	1,332
87	2,50	104,699	104,725	104,714	104,762	104,735	104,816	104,767	104,906	1,331
88	2,50	105,967	105,993	105,982	106,030	106,003	106,084	106,035	106,174	1,331
89	2,50	107,200	107,227	107,215	107,263	107,236	107,317	107,268	107,408	1,331
90	2,50	108,468	108,494	108,483	108,530	108,504	108,585	108,536	108,676	1,331
91	2,50	109,701	109,728	109,716	109,764	109,738	109,819	109,770	109,910	1,330
92	2,50	110,969	110,995	110,984	111,031	111,005	111,086	111,037	111,177	1,330
93	2,50	112,203	112,229	112,218	112,265	112,239	112,320	112,271	112,411	1,329
94	2,50	113,469	113,495	113,484	113,532	113,506	113,587	113,538	113,678	1,329
95	2,50	114,704	114,729	114,719	114,766	114,740	114,821	114,773	114,913	1,329
96	2,50	115,970	115,996	115,985	116,033	116,007	116,088	116,040	116,179	1,329
97	2,50	117,205	117,230	117,220	117,267	117,241	117,322	117,274	117,414	1,328
98	2,50	118,471	118,496	118,486	118,533	118,508	118,589	118,541	118,681	1,328
99	2,50	119,705	119,731	119,721	119,768	119,743	119,824	119,776	119,916	1,328
100	2,50	120,971	120,997	120,987	121,034	121,008	121,089	121,042	121,182	1,328

Table 72 — Inspection dimensions external spline, $\alpha = 37{,}5°$, $m = 1{,}25$, $S_{v\,max} = 1{,}963$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	3,35	13,295	13,314	13,276	13,309	13,248	13,301	13,201	13,287	0,995
7	3,15	13,850	13,869	13,831	13,864	13,802	13,855	13,754	13,841	1,005
8	3,00	15,053	15,074	15,032	15,067	15,002	15,058	14,950	15,044	1,061
9	3,00	16,120	16,141	16,099	16,134	16,068	16,125	16,016	16,110	1,059
10	3,00	17,589	17,610	17,567	17,604	17,535	17,594	17,481	17,579	1,089
11	3,00	18,692	18,714	18,670	18,707	18,637	18,697	18,583	18,681	1,089
12	2,80	19,636	19,658	19,613	19,651	19,579	19,641	19,521	19,624	1,129
13	2,80	20,763	20,785	20,739	20,778	20,705	20,767	20,647	20,751	1,130
14	2,80	22,152	22,175	22,129	22,168	22,093	22,157	22,034	22,140	1,146
15	2,80	23,296	23,319	23,273	23,312	23,237	23,301	23,177	23,284	1,147
16	2,80	24,666	24,689	24,641	24,681	24,605	24,670	24,544	24,652	1,160
17	2,80	25,823	25,846	25,798	25,838	25,761	25,827	25,700	25,809	1,161
18	2,80	27,176	27,200	27,152	27,192	27,114	27,180	27,052	27,162	1,172
19	2,65	27,972	27,996	27,947	27,988	27,909	27,976	27,845	27,957	1,186
20	2,65	29,312	29,336	29,286	29,328	29,248	29,316	29,183	29,297	1,194
21	2,65	30,487	30,511	30,461	30,503	30,422	30,491	30,358	30,471	1,195
22	2,65	31,818	31,842	31,792	31,834	31,753	31,821	31,687	31,802	1,202
23	2,65	33,000	33,024	32,973	33,015	32,934	33,003	32,868	32,983	1,203
24	2,65	34,323	34,348	34,297	34,339	34,257	34,326	34,190	34,306	1,209
25	2,65	35,510	35,535	35,484	35,526	35,443	35,513	35,376	35,493	1,210
26	2,65	36,827	36,852	36,800	36,843	36,760	36,830	36,692	36,809	1,215
27	2,65	38,020	38,044	37,992	38,035	37,951	38,022	37,883	38,001	1,216
28	2,65	39,331	39,356	39,304	39,347	39,263	39,333	39,194	39,312	1,220
29	2,65	40,527	40,552	40,500	40,543	40,458	40,529	40,389	40,508	1,221
30	2,65	41,835	41,859	41,807	41,850	41,765	41,836	41,695	41,815	1,225
31	2,65	43,034	43,059	43,006	43,049	42,964	43,036	42,894	43,014	1,226
32	2,65	44,337	44,362	44,309	44,353	44,267	44,339	44,196	44,317	1,229
33	2,65	45,540	45,565	45,512	45,555	45,469	45,541	45,398	45,519	1,230
34	2,65	46,840	46,865	46,811	46,855	46,769	46,841	46,697	46,819	1,233
35	2,65	48,045	48,070	48,017	48,060	47,974	48,046	47,902	48,024	1,233
36	2,65	49,342	49,367	49,313	49,357	49,270	49,343	49,198	49,320	1,236
37	2,65	50,550	50,575	50,521	50,565	50,478	50,550	50,405	50,527	1,237
38	2,65	51,844	51,869	51,815	51,859	51,771	51,844	51,698	51,821	1,239
39	2,65	53,054	53,079	53,025	53,069	52,981	53,054	52,907	53,031	1,240
40	2,65	54,346	54,371	54,317	54,361	54,272	54,346	54,198	54,322	1,242
41	2,65	55,558	55,583	55,528	55,573	55,484	55,558	55,410	55,534	1,243
42	2,65	56,848	56,873	56,818	56,862	56,773	56,847	56,699	56,823	1,245
43	2,65	58,061	58,087	58,032	58,076	57,987	58,061	57,912	58,037	1,245
44	2,65	59,349	59,374	59,319	59,363	59,274	59,348	59,199	59,324	1,247
45	2,65	60,565	60,590	60,534	60,579	60,489	60,563	60,414	60,539	1,248
46	2,65	61,851	61,876	61,820	61,865	61,775	61,849	61,699	61,825	1,249
47	2,65	63,067	63,093	63,037	63,081	62,991	63,066	62,915	63,041	1,250
48	2,65	64,352	64,377	64,321	64,366	64,275	64,350	64,199	64,325	1,251
49	2,65	65,570	65,595	65,539	65,584	65,493	65,568	65,416	65,543	1,252
50	2,65	66,853	66,878	66,822	66,867	66,776	66,851	66,699	66,825	1,253
51	2,65	68,072	68,098	68,041	68,086	67,995	68,070	67,918	68,045	1,254
52	2,65	69,354	69,379	69,323	69,368	69,276	69,351	69,198	69,326	1,255
53	2,65	70,575	70,600	70,543	70,588	70,497	70,572	70,419	70,546	1,255
54	2,65	71,855	71,880	71,824	71,868	71,777	71,852	71,698	71,826	1,257
55	2,65	73,077	73,102	73,045	73,090	72,998	73,073	72,919	73,047	1,257
56	2,65	74,356	74,381	74,324	74,369	74,277	74,352	74,198	74,326	1,258
57	2,65	75,578	75,604	75,547	75,592	75,499	75,575	75,420	75,549	1,259
58	2,65	76,856	76,882	76,825	76,870	76,777	76,853	76,698	76,826	1,260
59	2,65	78,080	78,105	78,048	78,093	78,000	78,076	77,921	78,050	1,260
60	2,65	79,357	79,382	79,325	79,370	79,277	79,353	79,197	79,326	1,261
61	2,65	80,582	80,607	80,550	80,595	80,502	80,577	80,421	80,550	1,261
62	2,65	81,858	81,883	81,826	81,871	81,777	81,853	81,697	81,826	1,262
63	2,65	83,083	83,108	83,051	83,096	83,002	83,078	82,922	83,051	1,263
64	2,65	84,358	84,384	84,326	84,371	84,277	84,354	84,196	84,326	1,264
65	2,65	85,585	85,610	85,552	85,597	85,503	85,579	85,422	85,552	1,264
66	2,65	86,859	86,884	86,826	86,872	86,778	86,854	86,696	86,826	1,265
67	2,65	88,086	88,111	88,053	88,098	88,004	88,080	87,922	88,053	1,265
68	2,65	89,360	89,385	89,327	89,372	89,278	89,354	89,196	89,326	1,266
69	2,65	90,587	90,612	90,554	90,599	90,505	90,581	90,423	90,553	1,266
70	2,65	91,860	91,885	91,827	91,872	91,778	91,854	91,695	91,826	1,267
71	2,65	93,088	93,113	93,055	93,100	93,005	93,082	92,923	93,054	1,267
72	2,65	94,360	94,386	94,327	94,373	94,278	94,354	94,195	94,326	1,268
73	2,65	95,589	95,614	95,556	95,601	95,506	95,583	95,423	95,554	1,268
74	2,65	96,861	96,886	96,828	96,873	96,778	96,854	96,694	96,826	1,269
75	2,65	98,090	98,115	98,057	98,102	98,007	98,083	97,923	98,055	1,269
76	2,65	99,361	99,386	99,328	99,373	99,277	99,354	99,194	99,325	1,269
77	2,65	100,591	100,616	100,557	100,603	100,507	100,584	100,423	100,555	1,270
78	2,65	101,862	101,887	101,828	101,873	101,777	101,854	101,693	101,825	1,270
79	2,65	103,092	103,117	103,058	103,103	103,008	103,084	102,923	103,055	1,270
80	2,65	104,362	104,387	104,328	104,373	104,277	104,354	104,192	104,325	1,271
81	2,65	105,593	105,618	105,559	105,604	105,508	105,585	105,423	105,555	1,271
82	2,65	106,862	106,887	106,828	106,874	106,777	106,854	106,692	106,825	1,272
83	2,65	108,094	108,119	108,059	108,105	108,008	108,085	107,923	108,055	1,272
84	2,65	109,363	109,388	109,328	109,374	109,277	109,354	109,191	109,324	1,273
85	2,65	110,594	110,619	110,560	110,605	110,509	110,586	110,423	110,556	1,273
86	2,65	111,863	111,888	111,828	111,874	111,777	111,854	111,691	111,824	1,273
87	2,65	113,095	113,120	113,061	113,106	113,009	113,086	112,923	113,056	1,273
88	2,65	114,363	114,388	114,329	114,374	114,277	114,354	114,190	114,324	1,274
89	2,65	115,596	115,620	115,561	115,606	115,509	115,586	115,422	115,556	1,274
90	2,65	116,863	116,888	116,829	116,874	116,777	116,854	116,690	116,823	1,275
91	2,65	118,096	118,121	118,061	118,107	118,009	118,087	117,922	118,056	1,275
92	2,65	119,364	119,388	119,329	119,374	119,276	119,354	119,189	119,323	1,275
93	2,65	120,597	120,622	120,562	120,607	120,509	120,587	120,422	120,556	1,275
94	2,65	121,864	121,889	121,829	121,874	121,776	121,854	121,689	121,822	1,276
95	2,65	123,097	123,122	123,062	123,108	123,010	123,087	122,922	123,056	1,276
96	2,65	124,364	124,389	124,329	124,374	124,276	124,354	124,188	124,322	1,276
97	2,65	125,598	125,623	125,563	125,608	125,510	125,587	125,422	125,556	1,276
98	2,65	126,864	126,889	126,829	126,874	126,776	126,853	126,687	126,822	1,277
99	2,65	128,098	128,123	128,063	128,108	128,010	128,088	127,921	128,056	1,277
100	2,65	129,364	129,389	129,329	129,374	129,276	129,353	129,187	129,321	1,277

5.19 37,5° pressure angle, module 1,5

Table 73 — Geometry internal spline, $\alpha = 37{,}5°$, $m = 1{,}5$, fillet root, $E_{v\,min} = 2{,}356$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	9,00	7,1402	11,27	10,65	7,96	2,389	2,410	2,440	2,490
7	10,50	8,3302	12,78	12,15	9,41	2,390	2,410	2,441	2,492
8	12,00	9,5202	14,28	13,65	10,87	2,390	2,411	2,442	2,494
9	13,50	10,7103	15,78	15,15	12,34	2,391	2,412	2,443	2,496
10	15,00	11,9003	17,28	16,65	13,82	2,391	2,412	2,444	2,497
11	16,50	13,0903	18,79	18,15	15,30	2,392	2,413	2,445	2,499
12	18,00	14,2804	20,29	19,65	16,79	2,392	2,414	2,446	2,500
13	19,50	15,4704	21,79	21,15	18,28	2,392	2,414	2,447	2,501
14	21,00	16,6604	23,29	22,65	19,77	2,393	2,415	2,448	2,503
15	22,50	17,8505	24,79	24,15	21,26	2,393	2,415	2,448	2,504
16	24,00	19,0405	26,29	25,65	22,75	2,393	2,416	2,449	2,505
17	25,50	20,2305	27,80	27,15	24,25	2,394	2,416	2,450	2,506
18	27,00	21,4205	29,30	28,65	25,74	2,394	2,417	2,451	2,507
19	28,50	22,6106	30,80	30,15	27,24	2,394	2,417	2,451	2,508
20	30,00	23,8006	32,30	31,65	28,73	2,394	2,417	2,452	2,509
21	31,50	24,9906	33,80	33,15	30,23	2,395	2,418	2,452	2,510
22	33,00	26,1807	35,30	34,65	31,72	2,395	2,418	2,453	2,511
23	34,50	27,3707	36,80	36,15	33,22	2,395	2,418	2,454	2,512
24	36,00	28,5607	38,30	37,65	34,72	2,395	2,419	2,454	2,513
25	37,50	29,7508	39,81	39,15	36,21	2,395	2,419	2,455	2,514
26	39,00	30,9408	41,31	40,65	37,71	2,396	2,420	2,455	2,515
27	40,50	32,1308	42,81	42,15	39,21	2,396	2,420	2,456	2,516
28	42,00	33,3208	44,31	43,65	40,71	2,396	2,420	2,456	2,516
29	43,50	34,5109	45,81	45,15	42,21	2,396	2,420	2,457	2,517
30	45,00	35,7009	47,31	46,65	43,70	2,397	2,421	2,457	2,518
31	46,50	36,8909	48,81	48,15	45,20	2,397	2,421	2,458	2,519
32	48,00	38,0810	50,31	49,65	46,70	2,397	2,421	2,458	2,520
33	49,50	39,2710	51,81	51,15	48,20	2,397	2,422	2,459	2,520
34	51,00	40,4610	53,31	52,65	49,70	2,397	2,422	2,459	2,521
35	52,50	41,6511	54,82	54,15	51,20	2,397	2,422	2,460	2,522
36	54,00	42,8411	56,32	55,65	52,69	2,398	2,423	2,460	2,522
37	55,50	44,0311	57,82	57,15	54,19	2,398	2,423	2,460	2,523
38	57,00	45,2211	59,32	58,65	55,69	2,398	2,423	2,461	2,524
39	58,50	46,4112	60,82	60,15	57,19	2,398	2,423	2,461	2,524
40	60,00	47,6012	62,32	61,65	58,69	2,398	2,424	2,462	2,525
41	61,50	48,7912	63,82	63,15	60,19	2,398	2,424	2,462	2,526
42	63,00	49,9813	65,32	64,65	61,69	2,399	2,424	2,462	2,526
43	64,50	51,1713	66,82	66,15	63,19	2,399	2,424	2,463	2,527
44	66,00	52,3613	68,32	67,65	64,69	2,399	2,425	2,463	2,528
45	67,50	53,5514	69,82	69,15	66,19	2,399	2,425	2,464	2,528
46	69,00	54,7414	71,33	70,65	67,68	2,399	2,425	2,464	2,529
47	70,50	55,9314	72,83	72,15	69,18	2,399	2,425	2,464	2,529
48	72,00	57,1214	74,33	73,65	70,68	2,399	2,426	2,465	2,530
49	73,50	58,3115	75,83	75,15	72,18	2,400	2,426	2,465	2,531
50	75,00	59,5015	77,33	76,65	73,68	2,400	2,426	2,465	2,531
51	76,50	60,6915	78,83	78,15	75,18	2,400	2,426	2,466	2,532
52	78,00	61,8816	80,33	79,65	76,68	2,400	2,426	2,466	2,532
53	79,50	63,0716	81,83	81,15	78,18	2,400	2,427	2,466	2,533
54	81,00	64,2616	83,33	82,65	79,68	2,400	2,427	2,467	2,533
55	82,50	65,4517	84,83	84,15	81,18	2,400	2,427	2,467	2,534
56	84,00	66,6417	86,33	85,65	82,68	2,401	2,427	2,467	2,534
57	85,50	67,8317	87,83	87,15	84,18	2,401	2,428	2,468	2,535
58	87,00	69,0217	89,33	88,65	85,68	2,401	2,428	2,468	2,535
59	88,50	70,2118	90,83	90,15	87,18	2,401	2,428	2,468	2,536
60	90,00	71,4018	92,34	91,65	88,68	2,401	2,428	2,469	2,536
61	91,50	72,5918	93,84	93,15	90,18	2,401	2,428	2,469	2,537
62	93,00	73,7819	95,34	94,65	91,68	2,401	2,429	2,469	2,537
63	94,50	74,9719	96,84	96,15	93,17	2,401	2,429	2,470	2,538
64	96,00	76,1619	98,34	97,65	94,67	2,402	2,429	2,470	2,538
65	97,50	77,3520	99,84	99,15	96,17	2,402	2,429	2,470	2,539
66	99,00	78,5420	101,34	100,65	97,67	2,402	2,429	2,471	2,539
67	100,50	79,7320	102,84	102,15	99,17	2,402	2,430	2,471	2,540
68	102,00	80,9220	104,34	103,65	100,67	2,402	2,430	2,471	2,540
69	103,50	82,1121	105,84	105,15	102,17	2,402	2,430	2,472	2,541
70	105,00	83,3021	107,34	106,65	103,67	2,402	2,430	2,472	2,541
71	106,50	84,4921	108,84	108,15	105,17	2,402	2,430	2,472	2,542
72	108,00	85,6822	110,34	109,65	106,67	2,403	2,430	2,472	2,542
73	109,50	86,8722	111,84	111,15	108,17	2,403	2,431	2,473	2,543
74	111,00	88,0622	113,34	112,65	109,67	2,403	2,431	2,473	2,543
75	112,50	89,2523	114,84	114,15	111,17	2,403	2,431	2,473	2,544
76	114,00	90,4423	116,35	115,65	112,67	2,403	2,431	2,474	2,544
77	115,50	91,6323	117,85	117,15	114,17	2,403	2,431	2,474	2,544
78	117,00	92,8223	119,35	118,65	115,67	2,403	2,432	2,474	2,545
79	118,50	94,0124	120,85	120,15	117,17	2,403	2,432	2,474	2,545
80	120,00	95,2024	122,35	121,65	118,67	2,403	2,432	2,475	2,546
81	121,50	96,3924	123,85	123,15	120,17	2,404	2,432	2,475	2,546
82	123,00	97,5825	125,35	124,65	121,67	2,404	2,432	2,475	2,547
83	124,50	98,7725	126,85	126,15	123,17	2,404	2,432	2,475	2,547
84	126,00	99,9625	128,35	127,65	124,67	2,404	2,433	2,476	2,547
85	127,50	101,1526	129,85	129,15	126,17	2,404	2,433	2,476	2,548
86	129,00	102,3426	131,35	130,65	127,67	2,404	2,433	2,476	2,548
87	130,50	103,5326	132,85	132,15	129,17	2,404	2,433	2,476	2,549
88	132,00	104,7226	134,35	133,65	130,67	2,404	2,433	2,477	2,549
89	133,50	105,9127	135,85	135,15	132,17	2,404	2,433	2,477	2,550
90	135,00	107,1027	137,35	136,65	133,67	2,404	2,434	2,477	2,550
91	136,50	108,2927	138,85	138,15	135,17	2,405	2,434	2,477	2,550
92	138,00	109,4828	140,35	139,65	136,67	2,405	2,434	2,478	2,551
93	139,50	110,6728	141,85	141,15	138,17	2,405	2,434	2,478	2,551
94	141,00	111,8628	143,35	142,65	139,67	2,405	2,434	2,478	2,552
95	142,50	113,0529	144,86	144,15	141,17	2,405	2,434	2,478	2,552
96	144,00	114,2429	146,36	145,65	142,67	2,405	2,435	2,479	2,552
97	145,50	115,4329	147,86	147,15	144,17	2,405	2,435	2,479	2,553
98	147,00	116,6229	149,36	148,65	145,67	2,405	2,435	2,479	2,553
99	148,50	117,8130	150,86	150,15	147,17	2,405	2,435	2,479	2,553
100	150,00	119,0030	152,36	151,65	148,67	2,405	2,435	2,480	2,554

Table 74 — Geometry external spline, $\alpha = 37{,}5°$, $m = 1{,}5$, fillet root, $S_{v\,max} = 2{,}356$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	9,00	7,1402	10,35	7,66	6,73	2,323	2,302	2,272	2,222
7	10,50	8,3302	11,85	9,11	8,22	2,322	2,302	2,271	2,220
8	12,00	9,5202	13,35	10,57	9,72	2,322	2,301	2,270	2,218
9	13,50	10,7103	14,85	12,04	11,22	2,321	2,300	2,269	2,216
10	15,00	11,9003	16,35	13,52	12,72	2,321	2,300	2,268	2,215
11	16,50	13,0903	17,85	15,00	14,21	2,320	2,299	2,267	2,213
12	18,00	14,2804	19,35	16,49	15,71	2,320	2,298	2,266	2,212
13	19,50	15,4704	20,85	17,98	17,21	2,320	2,298	2,265	2,211
14	21,00	16,6604	22,35	19,47	18,71	2,319	2,297	2,264	2,209
15	22,50	17,8505	23,85	20,96	20,21	2,319	2,297	2,264	2,208
16	24,00	19,0405	25,35	22,45	21,71	2,319	2,296	2,263	2,207
17	25,50	20,2305	26,85	23,95	23,20	2,318	2,296	2,262	2,206
18	27,00	21,4205	28,35	25,44	24,70	2,318	2,295	2,261	2,205
19	28,50	22,6106	29,85	26,94	26,20	2,318	2,295	2,261	2,204
20	30,00	23,8006	31,35	28,43	27,70	2,318	2,295	2,260	2,203
21	31,50	24,9906	32,85	29,93	29,20	2,317	2,294	2,260	2,202
22	33,00	26,1807	34,35	31,42	30,70	2,317	2,294	2,259	2,201
23	34,50	27,3707	35,85	32,92	32,20	2,317	2,294	2,258	2,200
24	36,00	28,5607	37,35	34,42	33,70	2,317	2,293	2,258	2,199
25	37,50	29,7508	38,85	35,91	35,19	2,317	2,293	2,257	2,198
26	39,00	30,9408	40,35	37,41	36,69	2,316	2,292	2,257	2,197
27	40,50	32,1308	41,85	38,91	38,19	2,316	2,292	2,256	2,196
28	42,00	33,3208	43,35	40,41	39,69	2,316	2,292	2,256	2,196
29	43,50	34,5109	44,85	41,91	41,19	2,316	2,292	2,255	2,195
30	45,00	35,7009	46,35	43,40	42,69	2,315	2,291	2,255	2,194
31	46,50	36,8909	47,85	44,90	44,19	2,315	2,291	2,254	2,193
32	48,00	38,0810	49,35	46,40	45,69	2,315	2,291	2,254	2,192
33	49,50	39,2710	50,85	47,90	47,19	2,315	2,290	2,253	2,192
34	51,00	40,4610	52,35	49,40	48,69	2,315	2,290	2,253	2,191
35	52,50	41,6511	53,85	50,90	50,18	2,315	2,290	2,252	2,190
36	54,00	42,8411	55,35	52,39	51,68	2,314	2,289	2,252	2,190
37	55,50	44,0311	56,85	53,89	53,18	2,314	2,289	2,252	2,189
38	57,00	45,2211	58,35	55,39	54,68	2,314	2,289	2,251	2,188
39	58,50	46,4112	59,85	56,89	56,18	2,314	2,289	2,251	2,188
40	60,00	47,6012	61,35	58,39	57,68	2,314	2,288	2,250	2,187
41	61,50	48,7912	62,85	59,89	59,18	2,314	2,288	2,250	2,186
42	63,00	49,9813	64,35	61,39	60,68	2,313	2,288	2,250	2,186
43	64,50	51,1713	65,85	62,89	62,18	2,313	2,288	2,249	2,185
44	66,00	52,3613	67,35	64,39	63,68	2,313	2,287	2,249	2,184
45	67,50	53,5514	68,85	65,89	65,18	2,313	2,287	2,248	2,184
46	69,00	54,7414	70,35	67,38	66,67	2,313	2,287	2,248	2,183
47	70,50	55,9314	71,85	68,88	68,17	2,313	2,287	2,248	2,183
48	72,00	57,1214	73,35	70,38	69,67	2,313	2,286	2,247	2,182
49	73,50	58,3115	74,85	71,88	71,17	2,312	2,286	2,247	2,181
50	75,00	59,5015	76,35	73,38	72,67	2,312	2,286	2,247	2,181
51	76,50	60,6915	77,85	74,88	74,17	2,312	2,286	2,246	2,180
52	78,00	61,8816	79,35	76,38	75,67	2,312	2,286	2,246	2,180
53	79,50	63,0716	80,85	77,88	77,17	2,312	2,285	2,246	2,179
54	81,00	64,2616	82,35	79,38	78,67	2,312	2,285	2,245	2,179
55	82,50	65,4517	83,85	80,88	80,17	2,312	2,285	2,245	2,178
56	84,00	66,6417	85,35	82,38	81,67	2,311	2,285	2,245	2,178
57	85,50	67,8317	86,85	83,88	83,17	2,311	2,284	2,244	2,177
58	87,00	69,0217	88,35	85,38	84,67	2,311	2,284	2,244	2,177
59	88,50	70,2118	89,85	86,88	86,17	2,311	2,284	2,244	2,176
60	90,00	71,4018	91,35	88,38	87,66	2,311	2,284	2,243	2,176
61	91,50	72,5918	92,85	89,88	89,16	2,311	2,284	2,243	2,175
62	93,00	73,7819	94,35	91,38	90,66	2,311	2,283	2,243	2,175
63	94,50	74,9719	95,85	92,87	92,16	2,311	2,283	2,242	2,174
64	96,00	76,1619	97,35	94,37	93,66	2,310	2,283	2,242	2,174
65	97,50	77,3520	98,85	95,87	95,16	2,310	2,283	2,242	2,173
66	99,00	78,5420	100,35	97,37	96,66	2,310	2,283	2,241	2,173
67	100,50	79,7320	101,85	98,87	98,16	2,310	2,282	2,241	2,172
68	102,00	80,9220	103,35	100,37	99,66	2,310	2,282	2,241	2,172
69	103,50	82,1121	104,85	101,87	101,16	2,310	2,282	2,240	2,171
70	105,00	83,3021	106,35	103,37	102,66	2,310	2,282	2,240	2,171
71	106,50	84,4921	107,85	104,87	104,16	2,310	2,282	2,240	2,170
72	108,00	85,6822	109,35	106,37	105,66	2,309	2,282	2,240	2,170
73	109,50	86,8722	110,85	107,87	107,16	2,309	2,281	2,239	2,169
74	111,00	88,0622	112,35	109,37	108,66	2,309	2,281	2,239	2,169
75	112,50	89,2523	113,85	110,87	110,16	2,309	2,281	2,239	2,168
76	114,00	90,4423	115,35	112,37	111,65	2,309	2,281	2,238	2,168
77	115,50	91,6323	116,85	113,87	113,15	2,309	2,281	2,238	2,168
78	117,00	92,8223	118,35	115,37	114,65	2,309	2,280	2,238	2,167
79	118,50	94,0124	119,85	116,87	116,15	2,309	2,280	2,238	2,167
80	120,00	95,2024	121,35	118,37	117,65	2,309	2,280	2,237	2,166
81	121,50	96,3924	122,85	119,87	119,15	2,308	2,280	2,237	2,166
82	123,00	97,5825	124,35	121,37	120,65	2,308	2,280	2,237	2,165
83	124,50	98,7725	125,85	122,87	122,15	2,308	2,280	2,237	2,165
84	126,00	99,9625	127,35	124,37	123,65	2,308	2,279	2,236	2,165
85	127,50	101,1526	128,85	125,87	125,15	2,308	2,279	2,236	2,164
86	129,00	102,3426	130,35	127,37	126,65	2,308	2,279	2,236	2,164
87	130,50	103,5326	131,85	128,87	128,15	2,308	2,279	2,236	2,163
88	132,00	104,7226	133,35	130,37	129,65	2,308	2,279	2,235	2,163
89	133,50	105,9127	134,85	131,87	131,15	2,308	2,279	2,235	2,162
90	135,00	107,1027	136,35	133,37	132,65	2,308	2,278	2,235	2,162
91	136,50	108,2927	137,85	134,87	134,15	2,307	2,278	2,235	2,162
92	138,00	109,4828	139,35	136,37	135,65	2,307	2,278	2,234	2,161
93	139,50	110,6728	140,85	137,87	137,15	2,307	2,278	2,234	2,161
94	141,00	111,8628	142,35	139,37	138,65	2,307	2,278	2,234	2,160
95	142,50	113,0529	143,85	140,87	140,14	2,307	2,278	2,234	2,160
96	144,00	114,2429	145,35	142,37	141,64	2,307	2,277	2,233	2,160
97	145,50	115,4329	146,85	143,87	143,14	2,307	2,277	2,233	2,159
98	147,00	116,6229	148,35	145,37	144,64	2,307	2,277	2,233	2,159
99	148,50	117,8130	149,85	146,87	146,14	2,307	2,277	2,233	2,159
100	150,00	119,0030	151,35	148,37	147,64	2,307	2,277	2,232	2,158

Table 75 — Inspection dimensions internal spline, $\alpha = 37{,}5°$, $m = 1{,}5$, $E_{v\,min} = 2{,}356$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	2,65	4,706	4,771	4,725	4,827	4,752	4,903	4,793	5,019	2,175
7	2,65	6,115	6,158	6,128	6,198	6,146	6,257	6,174	6,351	1,794
8	2,65	7,898	7,937	7,909	7,974	7,926	8,029	7,952	8,118	1,698
9	2,65	9,249	9,285	9,260	9,319	9,275	9,371	9,300	9,455	1,592
10	2,80	10,483	10,521	10,495	10,559	10,512	10,614	10,538	10,704	1,679
11	2,80	11,863	11,899	11,874	11,934	11,890	11,987	11,915	12,073	1,599
12	2,80	13,536	13,571	13,547	13,606	13,563	13,658	13,588	13,744	1,571
13	2,80	14,924	14,957	14,934	14,991	14,950	15,042	14,974	15,126	1,527
14	2,80	16,568	16,601	16,578	16,635	16,594	16,686	16,618	16,769	1,512
15	2,80	17,965	17,997	17,975	18,031	17,991	18,081	18,015	18,164	1,483
16	2,80	19,589	19,621	19,599	19,655	19,615	19,705	19,639	19,787	1,475
17	2,80	20,995	21,027	21,005	21,060	21,021	21,110	21,045	21,192	1,454
18	2,80	22,604	22,636	22,614	22,669	22,630	22,719	22,654	22,801	1,449
19	2,80	24,018	24,049	24,029	24,083	24,044	24,132	24,068	24,214	1,433
20	3,00	25,043	25,076	25,054	25,110	25,070	25,161	25,096	25,246	1,473
21	3,00	26,468	26,500	26,480	26,535	26,496	26,586	26,521	26,670	1,458
22	3,00	28,058	28,090	28,069	28,124	28,085	28,175	28,111	28,260	1,452
23	3,00	29,488	29,520	29,499	29,554	29,515	29,605	29,541	29,689	1,440
24	3,00	31,069	31,101	31,081	31,135	31,097	31,186	31,123	31,271	1,435
25	3,00	32,504	32,535	32,516	32,570	32,532	32,621	32,558	32,705	1,426
26	3,00	34,079	34,110	34,090	34,144	34,107	34,195	34,133	34,280	1,422
27	3,00	35,518	35,549	35,529	35,583	35,546	35,634	35,572	35,719	1,414
28	3,00	37,087	37,118	37,099	37,152	37,115	37,203	37,141	37,288	1,411
29	3,00	38,529	38,560	38,541	38,594	38,558	38,646	38,584	38,731	1,405
30	3,00	40,094	40,124	40,105	40,159	40,122	40,210	40,148	40,295	1,402
31	3,00	41,539	41,570	41,551	41,604	41,568	41,656	41,595	41,741	1,397
32	3,00	43,099	43,130	43,111	43,164	43,128	43,216	43,155	43,302	1,395
33	3,00	44,548	44,579	44,560	44,613	44,577	44,665	44,604	44,750	1,390
34	3,00	46,105	46,135	46,117	46,169	46,134	46,221	46,161	46,307	1,388
35	3,00	47,556	47,586	47,568	47,621	47,585	47,673	47,612	47,759	1,384
36	3,00	49,109	49,139	49,121	49,174	49,139	49,226	49,166	49,312	1,382
37	3,00	50,563	50,593	50,575	50,628	50,593	50,680	50,620	50,766	1,379
38	3,00	52,113	52,143	52,126	52,178	52,143	52,230	52,171	52,317	1,377
39	3,00	53,569	53,599	53,582	53,634	53,599	53,686	53,627	53,773	1,374
40	3,00	55,117	55,147	55,129	55,182	55,147	55,234	55,175	55,321	1,373
41	3,00	56,575	56,604	56,587	56,639	56,605	56,692	56,633	56,779	1,370
42	3,00	58,120	58,150	58,133	58,185	58,151	58,238	58,179	58,325	1,369
43	3,00	59,580	59,609	59,593	59,645	59,611	59,697	59,639	59,785	1,366
44	3,00	61,123	61,153	61,136	61,188	61,154	61,241	61,182	61,329	1,366
45	3,00	62,584	62,614	62,597	62,649	62,616	62,702	62,644	62,790	1,363
46	3,00	64,126	64,155	64,139	64,191	64,157	64,244	64,186	64,332	1,363
47	3,00	65,589	65,618	65,602	65,654	65,620	65,707	65,649	65,795	1,360
48	3,00	67,128	67,158	67,141	67,193	67,160	67,247	67,189	67,335	1,360
49	3,00	68,593	68,622	68,606	68,658	68,625	68,711	68,654	68,800	1,358
50	3,00	70,131	70,160	70,144	70,196	70,163	70,249	70,192	70,338	1,357
51	3,00	71,596	71,625	71,610	71,661	71,629	71,715	71,658	71,804	1,355
52	3,00	73,133	73,162	73,146	73,198	73,165	73,252	73,195	73,341	1,355
53	3,00	74,600	74,629	74,613	74,665	74,632	74,719	74,662	74,808	1,353
54	3,00	76,135	76,164	76,148	76,200	76,168	76,254	76,197	76,344	1,353
55	3,00	77,603	77,632	77,617	77,668	77,636	77,722	77,666	77,812	1,351
56	3,00	79,137	79,165	79,150	79,202	79,170	79,256	79,200	79,347	1,351
57	3,00	80,606	80,635	80,620	80,671	80,639	80,725	80,669	80,816	1,349
58	3,00	82,138	82,167	82,152	82,204	82,172	82,258	82,202	82,349	1,349
59	3,00	83,609	83,637	83,622	83,674	83,642	83,728	83,673	83,819	1,347
60	3,00	85,140	85,169	85,154	85,205	85,174	85,260	85,204	85,351	1,347
61	3,00	86,611	86,640	86,625	86,676	86,645	86,731	86,676	86,823	1,346
62	3,00	88,142	88,170	88,156	88,207	88,176	88,262	88,207	88,354	1,345
63	3,00	89,614	89,642	89,628	89,679	89,648	89,734	89,679	89,826	1,344
64	3,00	91,143	91,172	91,157	91,208	91,178	91,264	91,209	91,356	1,344
65	3,00	92,616	92,644	92,630	92,681	92,651	92,737	92,682	92,829	1,343
66	3,00	94,144	94,173	94,159	94,210	94,179	94,265	94,211	94,358	1,343
67	3,00	95,618	95,646	95,633	95,684	95,653	95,739	95,685	95,832	1,342
68	3,00	97,146	97,174	97,160	97,211	97,181	97,267	97,213	97,360	1,341
69	3,00	98,620	98,648	98,635	98,686	98,655	98,742	98,687	98,834	1,340
70	3,00	100,147	100,175	100,162	100,213	100,183	100,269	100,215	100,362	1,340
71	3,00	101,622	101,650	101,637	101,688	101,658	101,744	101,690	101,837	1,339
72	3,00	103,148	103,176	103,163	103,214	103,184	103,270	103,216	103,364	1,339
73	3,00	104,624	104,652	104,639	104,690	104,660	104,746	104,692	104,840	1,338
74	3,00	106,149	106,177	106,164	106,215	106,186	106,272	106,218	106,366	1,338
75	3,00	107,626	107,654	107,641	107,691	107,662	107,748	107,695	107,842	1,337
76	3,00	109,151	109,179	109,166	109,216	109,187	109,273	109,220	109,367	1,337
77	3,00	110,627	110,655	110,643	110,693	110,664	110,750	110,697	110,845	1,336
78	3,00	112,152	112,180	112,167	112,217	112,188	112,274	112,221	112,369	1,336
79	3,00	113,629	113,657	113,644	113,695	113,666	113,752	113,699	113,847	1,335
80	3,00	115,153	115,180	115,168	115,219	115,190	115,276	115,223	115,371	1,335
81	3,00	116,631	116,658	116,646	116,697	116,668	116,754	116,701	116,849	1,334
82	3,00	118,154	118,181	118,169	118,220	118,191	118,277	118,225	118,372	1,334
83	3,00	119,632	119,660	119,648	119,698	119,670	119,756	119,703	119,851	1,334
84	3,00	121,155	121,182	121,170	121,221	121,192	121,278	121,226	121,374	1,333
85	3,00	122,634	122,661	122,649	122,700	122,671	122,757	122,705	122,853	1,333
86	3,00	124,155	124,183	124,171	124,222	124,193	124,279	124,228	124,375	1,333
87	3,00	125,635	125,662	125,651	125,701	125,673	125,759	125,707	125,855	1,332
88	3,00	127,156	127,184	127,172	127,223	127,195	127,280	127,229	127,377	1,332
89	3,00	128,636	128,664	128,652	128,702	128,675	128,761	128,709	128,857	1,331
90	3,00	130,157	130,185	130,173	130,223	130,196	130,282	130,230	130,378	1,331
91	3,00	131,638	131,665	131,654	131,704	131,676	131,762	131,711	131,859	1,331
92	3,00	133,158	133,185	133,174	133,224	133,197	133,283	133,232	133,380	1,331
93	3,00	134,639	134,666	134,655	134,705	134,678	134,764	134,713	134,861	1,330
94	3,00	136,159	136,186	136,175	136,225	136,198	136,284	136,233	136,381	1,330
95	3,00	137,640	137,667	137,656	137,706	137,679	137,765	137,715	137,863	1,329
96	3,00	139,160	139,187	139,176	139,226	139,199	139,285	139,234	139,383	1,329
97	3,00	140,641	140,668	140,658	140,708	140,681	140,766	140,716	140,865	1,329
98	3,00	142,160	142,187	142,177	142,227	142,200	142,286	142,236	142,384	1,329
99	3,00	143,642	143,669	143,659	143,709	143,682	143,768	143,718	143,866	1,328
100	3,00	145,161	145,188	145,178	145,228	145,201	145,287	145,237	145,385	1,328

Table 76 — Inspection dimensions external spline, $\alpha = 37{,}5°$, $m = 1{,}5$, $S_{v\,max} = 2{,}356$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	4,00	15,913	15,934	15,894	15,928	15,864	15,920	15,814	15,906	0,996
7	3,75	16,556	16,577	16,536	16,571	16,505	16,562	16,454	16,548	1,006
8	3,75	18,416	18,438	18,395	18,432	18,362	18,423	18,308	18,407	1,049
9	3,55	19,232	19,255	19,210	19,248	19,177	19,238	19,121	19,223	1,062
10	3,55	20,993	21,017	20,970	21,010	20,936	20,999	20,878	20,983	1,091
11	3,55	22,317	22,340	22,294	22,333	22,259	22,323	22,201	22,306	1,092
12	3,35	23,544	23,568	23,519	23,560	23,483	23,550	23,422	23,532	1,129
13	3,35	24,896	24,920	24,872	24,913	24,835	24,902	24,773	24,884	1,130
14	3,35	26,564	26,588	26,539	26,580	26,501	26,569	26,438	26,551	1,146
15	3,35	27,937	27,961	27,911	27,953	27,873	27,942	27,810	27,924	1,147
16	3,35	29,580	29,605	29,554	29,596	29,515	29,585	29,450	29,566	1,160
17	3,35	30,968	30,993	30,942	30,985	30,903	30,973	30,838	30,954	1,161
18	3,35	32,593	32,618	32,566	32,609	32,526	32,597	32,460	32,578	1,172
19	3,35	33,993	34,019	33,967	34,010	33,927	33,998	33,860	33,978	1,173
20	3,35	35,603	35,629	35,576	35,620	35,536	35,608	35,468	35,588	1,182
21	3,35	37,014	37,039	36,987	37,030	36,946	37,018	36,877	36,997	1,183
22	3,15	38,112	38,138	38,085	38,129	38,043	38,116	37,973	38,095	1,203
23	3,15	39,530	39,556	39,502	39,547	39,460	39,534	39,390	39,513	1,204
24	3,15	41,118	41,144	41,090	41,135	41,047	41,122	40,976	41,100	1,210
25	3,15	42,543	42,569	42,515	42,560	42,472	42,546	42,400	42,525	1,211
26	3,15	44,123	44,150	44,095	44,140	44,051	44,126	43,979	44,104	1,216
27	3,15	45,554	45,580	45,525	45,570	45,481	45,556	45,409	45,534	1,217
28	3,15	47,128	47,154	47,099	47,144	47,055	47,130	46,981	47,108	1,221
29	3,15	48,563	48,589	48,534	48,579	48,489	48,565	48,416	48,543	1,222
30	3,15	50,132	50,158	50,102	50,148	50,057	50,133	49,983	50,111	1,226
31	3,15	51,571	51,598	51,541	51,587	51,497	51,573	51,422	51,550	1,226
32	3,15	53,135	53,162	53,105	53,151	53,060	53,136	52,984	53,113	1,230
33	3,15	54,578	54,605	54,548	54,594	54,503	54,579	54,427	54,556	1,230
34	3,15	56,138	56,165	56,108	56,154	56,062	56,139	55,986	56,115	1,234
35	3,15	57,584	57,611	57,554	57,600	57,508	57,585	57,431	57,561	1,234
36	3,15	59,141	59,167	59,110	59,156	59,064	59,141	58,987	59,117	1,237
37	3,15	60,590	60,617	60,559	60,606	60,513	60,590	60,435	60,566	1,237
38	3,15	62,143	62,170	62,112	62,159	62,065	62,143	61,987	62,119	1,240
39	3,15	63,595	63,622	63,564	63,611	63,517	63,595	63,439	63,570	1,241
40	3,15	65,145	65,172	65,114	65,161	65,067	65,145	64,988	65,120	1,243
41	3,15	66,600	66,626	66,568	66,615	66,521	66,599	66,442	66,574	1,243
42	3,15	68,147	68,174	68,115	68,162	68,068	68,146	67,988	68,121	1,245
43	3,15	69,604	69,630	69,572	69,619	69,524	69,602	69,444	69,577	1,246
44	3,15	71,149	71,176	71,117	71,164	71,069	71,147	70,989	71,122	1,248
45	3,15	72,607	72,634	72,575	72,622	72,527	72,606	72,446	72,580	1,248
46	3,15	74,150	74,177	74,118	74,165	74,070	74,149	73,989	74,123	1,250
47	3,15	75,611	75,637	75,578	75,625	75,530	75,609	75,448	75,582	1,250
48	3,15	77,152	77,179	77,119	77,167	77,070	77,150	76,989	77,123	1,252
49	3,15	78,614	78,640	78,581	78,628	78,532	78,611	78,450	78,585	1,252
50	3,15	80,153	80,180	80,120	80,168	80,071	80,150	79,989	80,124	1,254
51	3,15	81,616	81,643	81,584	81,631	81,534	81,614	81,452	81,587	1,254
52	3,15	83,154	83,181	83,121	83,169	83,072	83,151	82,989	83,124	1,256
53	3,15	84,619	84,646	84,586	84,633	84,536	84,616	84,453	84,588	1,256
54	3,15	86,155	86,182	86,122	86,170	86,072	86,152	85,988	86,124	1,257
55	3,15	87,621	87,648	87,588	87,636	87,538	87,618	87,454	87,590	1,257
56	3,15	89,156	89,183	89,123	89,170	89,072	89,152	88,988	89,125	1,259
57	3,15	90,624	90,650	90,590	90,638	90,539	90,619	90,455	90,592	1,259
58	3,15	92,157	92,184	92,124	92,171	92,073	92,153	91,988	92,125	1,260
59	3,15	93,626	93,652	93,592	93,639	93,541	93,621	93,456	93,593	1,260
60	3,15	95,158	95,185	95,124	95,172	95,073	95,153	94,988	95,125	1,261
61	3,15	96,628	96,654	96,593	96,641	96,542	96,623	96,457	96,594	1,262
62	3,15	98,159	98,186	98,125	98,172	98,073	98,154	97,987	98,125	1,263
63	3,15	99,629	99,656	99,595	99,643	99,543	99,624	99,457	99,595	1,263
64	3,15	101,160	101,186	101,125	101,173	101,073	101,154	100,987	101,125	1,264
65	3,15	102,631	102,658	102,596	102,644	102,544	102,625	102,458	102,596	1,264
66	3,15	104,160	104,187	104,126	104,173	104,074	104,154	103,987	104,125	1,265
67	3,15	105,633	105,659	105,598	105,646	105,545	105,626	105,458	105,597	1,265
68	3,15	107,161	107,188	107,126	107,174	107,074	107,155	106,986	107,125	1,266
69	3,15	108,634	108,661	108,599	108,647	108,546	108,627	108,459	108,597	1,266
70	3,15	110,162	110,188	110,126	110,174	110,074	110,155	109,986	110,125	1,267
71	3,15	111,635	111,662	111,600	111,648	111,547	111,628	111,459	111,598	1,267
72	3,15	113,162	113,189	113,127	113,175	113,074	113,155	112,985	113,125	1,268
73	3,15	114,637	114,663	114,601	114,649	114,548	114,629	114,459	114,599	1,268
74	3,15	116,163	116,189	116,127	116,175	116,074	116,155	115,985	116,124	1,269
75	3,15	117,638	117,664	117,602	117,650	117,549	117,630	117,459	117,599	1,269
76	3,15	119,163	119,190	119,127	119,175	119,074	119,155	118,984	119,124	1,270
77	3,15	120,639	120,665	120,603	120,651	120,549	120,631	120,460	120,600	1,270
78	3,15	122,164	122,190	122,128	122,176	122,074	122,155	121,984	122,124	1,271
79	3,15	123,640	123,666	123,604	123,652	123,550	123,631	123,460	123,600	1,271
80	3,15	125,164	125,190	125,128	125,176	125,074	125,155	124,983	125,124	1,271
81	3,15	126,641	126,667	126,605	126,653	126,550	126,632	126,460	126,600	1,272
82	3,15	128,164	128,191	128,128	128,176	128,074	128,155	127,983	128,123	1,272
83	3,15	129,642	129,668	129,606	129,653	129,551	129,633	129,460	129,601	1,272
84	3,15	131,165	131,191	131,128	131,176	131,073	131,155	130,982	131,123	1,273
85	3,15	132,643	132,669	132,606	132,654	132,551	132,633	132,460	132,601	1,273
86	3,15	134,165	134,191	134,128	134,176	134,073	134,155	133,982	134,123	1,274
87	3,15	135,644	135,670	135,607	135,655	135,552	135,634	135,460	135,601	1,274
88	3,15	137,165	137,192	137,129	137,176	137,073	137,155	136,981	137,122	1,274
89	3,15	138,644	138,671	138,607	138,655	138,552	138,634	138,460	138,601	1,274
90	3,15	140,166	140,192	140,129	140,176	140,073	140,155	139,980	140,122	1,275
91	3,15	141,645	141,671	141,608	141,656	141,552	141,634	141,460	141,601	1,275
92	3,15	143,166	143,192	143,129	143,177	143,073	143,155	142,980	143,122	1,275
93	3,15	144,646	144,672	144,609	144,656	144,553	144,635	144,459	144,601	1,275
94	3,15	146,166	146,192	146,129	146,177	146,073	146,155	145,979	146,121	1,276
95	3,15	147,647	147,673	147,609	147,657	147,553	147,635	147,459	147,601	1,276
96	3,15	149,166	149,192	149,129	149,177	149,073	149,155	148,979	149,121	1,276
97	3,15	150,647	150,673	150,610	150,657	150,553	150,635	150,459	150,601	1,277
98	3,15	152,167	152,193	152,129	152,177	152,072	152,154	151,978	152,120	1,277
99	3,15	153,648	153,674	153,610	153,658	153,553	153,635	153,459	153,601	1,277
100	3,15	155,167	155,193	155,129	155,177	155,072	155,154	154,977	155,120	1,278

5.20 37,5° pressure angle, module 1,75

Table 77 — Geometry internal spline, $\alpha = 7{,}5°$, $m = 1{,}75$, fillet root, $E_{v\,min} = 2{,}749$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	10,50	8,3302	13,13	12,43	9,28	2,784	2,805	2,837	2,890
7	12,25	9,7186	14,89	14,18	10,98	2,785	2,806	2,839	2,892
8	14,00	11,1069	16,64	15,93	12,68	2,785	2,807	2,840	2,894
9	15,75	12,4953	18,39	17,68	14,40	2,786	2,808	2,841	2,896
10	17,50	13,8837	20,14	19,43	16,13	2,786	2,808	2,842	2,898
11	19,25	15,2721	21,90	21,18	17,86	2,787	2,809	2,843	2,899
12	21,00	16,6604	23,65	22,93	19,59	2,787	2,810	2,844	2,901
13	22,75	18,0488	25,40	24,68	21,33	2,787	2,810	2,845	2,902
14	24,50	19,4372	27,15	26,43	23,06	2,788	2,811	2,846	2,904
15	26,25	20,8255	28,90	28,18	24,80	2,788	2,811	2,846	2,905
16	28,00	22,2139	30,65	29,93	26,55	2,788	2,812	2,847	2,906
17	29,75	23,6023	32,41	31,68	28,29	2,789	2,812	2,848	2,907
18	31,50	24,9906	34,16	33,43	30,03	2,789	2,813	2,849	2,908
19	33,25	26,3790	35,91	35,18	31,78	2,789	2,813	2,849	2,910
20	35,00	27,7674	37,66	36,93	33,52	2,789	2,814	2,850	2,911
21	36,75	29,1557	39,41	38,68	35,27	2,790	2,814	2,851	2,912
22	38,50	30,5441	41,16	40,43	37,01	2,790	2,814	2,851	2,913
23	40,25	31,9325	42,91	42,18	38,76	2,790	2,815	2,852	2,914
24	42,00	33,3208	44,67	43,93	40,50	2,790	2,815	2,852	2,915
25	43,75	34,7092	46,42	45,68	42,25	2,791	2,816	2,853	2,915
26	45,50	36,0976	48,17	47,43	44,00	2,791	2,816	2,854	2,916
27	47,25	37,4859	49,92	49,18	45,74	2,791	2,816	2,854	2,917
28	49,00	38,8743	51,67	50,93	47,49	2,791	2,817	2,855	2,918
29	50,75	40,2627	53,42	52,68	49,24	2,791	2,817	2,855	2,919
30	52,50	41,6511	55,17	54,43	50,99	2,792	2,817	2,856	2,920
31	54,25	43,0394	56,92	56,18	52,74	2,792	2,818	2,856	2,921
32	56,00	44,4278	58,67	57,93	54,48	2,792	2,818	2,857	2,921
33	57,75	45,8162	60,43	59,68	56,23	2,792	2,818	2,857	2,922
34	59,50	47,2045	62,18	61,43	57,98	2,792	2,819	2,858	2,923
35	61,25	48,5929	63,93	63,18	59,73	2,793	2,819	2,858	2,924
36	63,00	49,9813	65,68	64,93	61,48	2,793	2,819	2,859	2,924
37	64,75	51,3696	67,43	66,68	63,23	2,793	2,819	2,859	2,925
38	66,50	52,7580	69,18	68,43	64,97	2,793	2,820	2,860	2,926
39	68,25	54,1464	70,93	70,18	66,72	2,793	2,820	2,860	2,927
40	70,00	55,5347	72,68	71,93	68,47	2,794	2,820	2,860	2,927
41	71,75	56,9231	74,43	73,68	70,22	2,794	2,821	2,861	2,928
42	73,50	58,3115	76,18	75,43	71,97	2,794	2,821	2,861	2,929
43	75,25	59,6998	77,93	77,18	73,72	2,794	2,821	2,862	2,929
44	77,00	61,0882	79,69	78,93	75,47	2,794	2,821	2,862	2,930
45	78,75	62,4766	81,44	80,68	77,22	2,794	2,822	2,863	2,931
46	80,50	63,8649	83,19	82,43	78,97	2,795	2,822	2,863	2,931
47	82,25	65,2533	84,94	84,18	80,71	2,795	2,822	2,863	2,932
48	84,00	66,6417	86,69	85,93	82,46	2,795	2,822	2,864	2,932
49	85,75	68,0300	88,44	87,68	84,21	2,795	2,823	2,864	2,933
50	87,50	69,4184	90,19	89,43	85,96	2,795	2,823	2,864	2,934
51	89,25	70,8068	91,94	91,18	87,71	2,795	2,823	2,865	2,934
52	91,00	72,1952	93,69	92,93	89,46	2,795	2,823	2,865	2,935
53	92,75	73,5835	95,44	94,68	91,21	2,796	2,824	2,866	2,935
54	94,50	74,9719	97,19	96,43	92,96	2,796	2,824	2,866	2,936
55	96,25	76,3603	98,94	98,18	94,71	2,796	2,824	2,866	2,937
56	98,00	77,7486	100,70	99,93	96,46	2,796	2,824	2,867	2,937
57	99,75	79,1370	102,45	101,68	98,21	2,796	2,825	2,867	2,938
58	101,50	80,5254	104,20	103,43	99,96	2,796	2,825	2,867	2,938
59	103,25	81,9137	105,95	105,18	101,71	2,796	2,825	2,868	2,939
60	105,00	83,3021	107,70	106,93	103,46	2,797	2,825	2,868	2,939
61	106,75	84,6905	109,45	108,68	105,21	2,797	2,825	2,868	2,940
62	108,50	86,0788	111,20	110,43	106,95	2,797	2,826	2,869	2,940
63	110,25	87,4672	112,95	112,18	108,70	2,797	2,826	2,869	2,941
64	112,00	88,8556	114,70	113,93	110,45	2,797	2,826	2,869	2,942
65	113,75	90,2439	116,45	115,68	112,20	2,797	2,826	2,870	2,942
66	115,50	91,6323	118,20	117,43	113,95	2,797	2,826	2,870	2,943
67	117,25	93,0207	119,95	119,18	115,70	2,798	2,827	2,870	2,943
68	119,00	94,4090	121,70	120,93	117,45	2,798	2,827	2,871	2,944
69	120,75	95,7974	123,45	122,68	119,20	2,798	2,827	2,871	2,944
70	122,50	97,1858	125,20	124,43	120,95	2,798	2,827	2,871	2,945
71	124,25	98,5742	126,96	126,18	122,70	2,798	2,827	2,872	2,945
72	126,00	99,9625	128,71	127,93	124,45	2,798	2,828	2,872	2,946
73	127,75	101,3509	130,46	129,68	126,20	2,798	2,828	2,872	2,946
74	129,50	102,7393	132,21	131,43	127,95	2,798	2,828	2,872	2,947
75	131,25	104,1276	133,96	133,18	129,70	2,799	2,828	2,873	2,947
76	133,00	105,5160	135,71	134,93	131,45	2,799	2,828	2,873	2,948
77	134,75	106,9044	137,46	136,68	133,20	2,799	2,829	2,873	2,948
78	136,50	108,2927	139,21	138,43	134,95	2,799	2,829	2,874	2,948
79	138,25	109,6811	140,96	140,18	136,70	2,799	2,829	2,874	2,949
80	140,00	111,0695	142,71	141,93	138,45	2,799	2,829	2,874	2,949
81	141,75	112,4578	144,46	143,68	140,20	2,799	2,829	2,875	2,950
82	143,50	113,8462	146,21	145,43	141,95	2,799	2,830	2,875	2,950
83	145,25	115,2346	147,96	147,18	143,70	2,799	2,830	2,875	2,951
84	147,00	116,6229	149,71	148,93	145,45	2,800	2,830	2,875	2,951
85	148,75	118,0113	151,46	150,68	147,20	2,800	2,830	2,876	2,952
86	150,50	119,3997	153,21	152,43	148,95	2,800	2,830	2,876	2,952
87	152,25	120,7880	154,97	154,18	150,70	2,800	2,830	2,876	2,953
88	154,00	122,1764	156,72	155,93	152,45	2,800	2,831	2,876	2,953
89	155,75	123,5648	158,47	157,68	154,20	2,800	2,831	2,877	2,953
90	157,50	124,9532	160,22	159,43	155,95	2,800	2,831	2,877	2,954
91	159,25	126,3415	161,97	161,18	157,70	2,800	2,831	2,877	2,954
92	161,00	127,7299	163,72	162,93	159,44	2,800	2,831	2,878	2,955
93	162,75	129,1183	165,47	164,68	161,19	2,801	2,831	2,878	2,955
94	164,50	130,5066	167,22	166,43	162,94	2,801	2,832	2,878	2,956
95	166,25	131,8950	168,97	168,18	164,69	2,801	2,832	2,878	2,956
96	168,00	133,2834	170,72	169,93	166,44	2,801	2,832	2,879	2,956
97	169,75	134,6717	172,47	171,68	168,19	2,801	2,832	2,879	2,957
98	171,50	136,0601	174,22	173,43	169,94	2,801	2,832	2,879	2,957
99	173,25	137,4485	175,97	175,18	171,69	2,801	2,832	2,879	2,958
100	175,00	138,8368	177,72	176,93	173,44	2,801	2,833	2,880	2,958

Table 78 — Geometry external spline, $\alpha = 37{,}5°$, $m = 1{,}75$, fillet root, $S_{v\,max} = 2{,}749$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	10,50	8,3302	12,08	8,93	7,87	2,714	2,693	2,661	2,608
7	12,25	9,7186	13,83	10,63	9,61	2,713	2,692	2,659	2,606
8	14,00	11,1069	15,58	12,33	11,36	2,713	2,691	2,658	2,604
9	15,75	12,4953	17,33	14,05	13,11	2,712	2,690	2,657	2,602
10	17,50	13,8837	19,08	15,78	14,86	2,712	2,690	2,656	2,600
11	19,25	15,2721	20,83	17,51	16,60	2,711	2,689	2,655	2,599
12	21,00	16,6604	22,58	19,24	18,35	2,711	2,688	2,654	2,597
13	22,75	18,0488	24,33	20,98	20,10	2,711	2,688	2,653	2,596
14	24,50	19,4372	26,08	22,71	21,85	2,710	2,687	2,652	2,594
15	26,25	20,8255	27,83	24,45	23,60	2,710	2,687	2,652	2,593
16	28,00	22,2139	29,58	26,20	25,35	2,710	2,686	2,651	2,592
17	29,75	23,6023	31,33	27,94	27,09	2,709	2,686	2,650	2,591
18	31,50	24,9906	33,08	29,68	28,84	2,709	2,685	2,649	2,590
19	33,25	26,3790	34,83	31,43	30,59	2,709	2,685	2,649	2,588
20	35,00	27,7674	36,58	33,17	32,34	2,709	2,684	2,648	2,587
21	36,75	29,1557	38,33	34,92	34,09	2,708	2,684	2,647	2,586
22	38,50	30,5441	40,08	36,66	35,84	2,708	2,684	2,647	2,585
23	40,25	31,9325	41,83	38,41	37,59	2,708	2,683	2,646	2,584
24	42,00	33,3208	43,58	40,15	39,33	2,708	2,683	2,646	2,583
25	43,75	34,7092	45,33	41,90	41,08	2,707	2,682	2,645	2,583
26	45,50	36,0976	47,08	43,65	42,83	2,707	2,682	2,644	2,582
27	47,25	37,4859	48,83	45,39	44,58	2,707	2,682	2,644	2,581
28	49,00	38,8743	50,58	47,14	46,33	2,707	2,681	2,643	2,580
29	50,75	40,2627	52,33	48,89	48,08	2,707	2,681	2,643	2,579
30	52,50	41,6511	54,08	50,64	49,83	2,706	2,681	2,642	2,578
31	54,25	43,0394	55,83	52,39	51,58	2,706	2,680	2,642	2,577
32	56,00	44,4278	57,58	54,13	53,33	2,706	2,680	2,641	2,577
33	57,75	45,8162	59,33	55,88	55,07	2,706	2,680	2,641	2,576
34	59,50	47,2045	61,08	57,63	56,82	2,706	2,679	2,640	2,575
35	61,25	48,5929	62,83	59,38	58,57	2,705	2,679	2,640	2,574
36	63,00	49,9813	64,58	61,13	60,32	2,705	2,679	2,639	2,574
37	64,75	51,3696	66,33	62,88	62,07	2,705	2,679	2,639	2,573
38	66,50	52,7580	68,08	64,62	63,82	2,705	2,678	2,638	2,572
39	68,25	54,1464	69,83	66,37	65,57	2,705	2,678	2,638	2,571
40	70,00	55,5347	71,58	68,12	67,32	2,704	2,678	2,638	2,571
41	71,75	56,9231	73,33	69,87	69,07	2,704	2,677	2,637	2,570
42	73,50	58,3115	75,08	71,62	70,82	2,704	2,677	2,637	2,569
43	75,25	59,6998	76,83	73,37	72,57	2,704	2,677	2,636	2,569
44	77,00	61,0882	78,58	75,12	74,31	2,704	2,677	2,636	2,568
45	78,75	62,4766	80,33	76,87	76,06	2,704	2,676	2,635	2,567
46	80,50	63,8649	82,08	78,62	77,81	2,703	2,676	2,635	2,567
47	82,25	65,2533	83,83	80,36	79,56	2,703	2,676	2,635	2,566
48	84,00	66,6417	85,58	82,11	81,31	2,703	2,676	2,634	2,566
49	85,75	68,0300	87,33	83,86	83,06	2,703	2,675	2,634	2,565
50	87,50	69,4184	89,08	85,61	84,81	2,703	2,675	2,634	2,564
51	89,25	70,8068	90,83	87,36	86,56	2,703	2,675	2,633	2,564
52	91,00	72,1952	92,58	89,11	88,31	2,703	2,675	2,633	2,563
53	92,75	73,5835	94,33	90,86	90,06	2,702	2,674	2,632	2,563
54	94,50	74,9719	96,08	92,61	91,81	2,702	2,674	2,632	2,562
55	96,25	76,3603	97,83	94,36	93,56	2,702	2,674	2,632	2,561
56	98,00	77,7486	99,58	96,11	95,30	2,702	2,674	2,631	2,561
57	99,75	79,1370	101,33	97,86	97,05	2,702	2,673	2,631	2,560
58	101,50	80,5254	103,08	99,61	98,80	2,702	2,673	2,631	2,560
59	103,25	81,9137	104,83	101,36	100,55	2,702	2,673	2,630	2,559
60	105,00	83,3021	106,58	103,11	102,30	2,701	2,673	2,630	2,559
61	106,75	84,6905	108,33	104,86	104,05	2,701	2,673	2,630	2,558
62	108,50	86,0788	110,08	106,60	105,80	2,701	2,672	2,629	2,558
63	110,25	87,4672	111,83	108,35	107,55	2,701	2,672	2,629	2,557
64	112,00	88,8556	113,58	110,10	109,30	2,701	2,672	2,629	2,556
65	113,75	90,2439	115,33	111,85	111,05	2,701	2,672	2,628	2,556
66	115,50	91,6323	117,08	113,60	112,80	2,701	2,672	2,628	2,555
67	117,25	93,0207	118,83	115,35	114,55	2,700	2,671	2,628	2,555
68	119,00	94,4090	120,58	117,10	116,30	2,700	2,671	2,627	2,554
69	120,75	95,7974	122,33	118,85	118,05	2,700	2,671	2,627	2,554
70	122,50	97,1858	124,08	120,60	119,80	2,700	2,671	2,627	2,553
71	124,25	98,5742	125,83	122,35	121,54	2,700	2,671	2,626	2,553
72	126,00	99,9625	127,58	124,10	123,29	2,700	2,670	2,626	2,552
73	127,75	101,3509	129,33	125,85	125,04	2,700	2,670	2,626	2,552
74	129,50	102,7393	131,08	127,60	126,79	2,700	2,670	2,626	2,551
75	131,25	104,1276	132,83	129,35	128,54	2,699	2,670	2,625	2,551
76	133,00	105,5160	134,58	131,10	130,29	2,699	2,670	2,625	2,550
77	134,75	106,9044	136,33	132,85	132,04	2,699	2,669	2,625	2,550
78	136,50	108,2927	138,08	134,60	133,79	2,699	2,669	2,624	2,550
79	138,25	109,6811	139,83	136,35	135,54	2,699	2,669	2,624	2,549
80	140,00	111,0695	141,58	138,10	137,29	2,699	2,669	2,624	2,549
81	141,75	112,4578	143,33	139,85	139,04	2,699	2,669	2,623	2,548
82	143,50	113,8462	145,08	141,60	140,79	2,699	2,668	2,623	2,548
83	145,25	115,2346	146,83	143,35	142,54	2,699	2,668	2,623	2,547
84	147,00	116,6229	148,58	145,10	144,29	2,698	2,668	2,623	2,547
85	148,75	118,0113	150,33	146,85	146,04	2,698	2,668	2,622	2,546
86	150,50	119,3997	152,08	148,60	147,79	2,698	2,668	2,622	2,546
87	152,25	120,7880	153,83	150,35	149,53	2,698	2,668	2,622	2,545
88	154,00	122,1764	155,58	152,10	151,28	2,698	2,667	2,622	2,545
89	155,75	123,5648	157,33	153,85	153,03	2,698	2,667	2,621	2,545
90	157,50	124,9532	159,08	155,60	154,78	2,698	2,667	2,621	2,544
91	159,25	126,3415	160,83	157,35	156,53	2,698	2,667	2,621	2,544
92	161,00	127,7299	162,58	159,09	158,28	2,698	2,667	2,620	2,543
93	162,75	129,1183	164,33	160,84	160,03	2,697	2,667	2,620	2,543
94	164,50	130,5066	166,08	162,59	161,78	2,697	2,666	2,620	2,542
95	166,25	131,8950	167,83	164,34	163,53	2,697	2,666	2,620	2,542
96	168,00	133,2834	169,58	166,09	165,28	2,697	2,666	2,619	2,542
97	169,75	134,6717	171,33	167,84	167,03	2,697	2,666	2,619	2,541
98	171,50	136,0601	173,08	169,59	168,78	2,697	2,666	2,619	2,541
99	173,25	137,4485	174,83	171,34	170,53	2,697	2,666	2,619	2,540
100	175,00	138,8368	176,58	173,09	172,28	2,697	2,665	2,618	2,540

Table 79 — Inspection dimensions internal spline, $\alpha = 37{,}5°$, $m = 1{,}75$, $E_{v\,min} = 2{,}749$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	3,00	5,885	5,935	5,899	5,980	5,919	6,046	5,951	6,151	1,917
7	3,00	7,447	7,488	7,459	7,526	7,475	7,583	7,502	7,674	1,679
8	3,15	9,014	9,057	9,026	9,098	9,045	9,159	9,073	9,258	1,780
9	3,15	10,603	10,642	10,614	10,680	10,631	10,736	10,658	10,828	1,647
10	3,15	12,599	12,637	12,610	12,674	12,627	12,729	12,653	12,819	1,606
11	3,15	14,195	14,231	14,206	14,267	14,222	14,320	14,247	14,408	1,544
12	3,35	15,532	15,570	15,544	15,608	15,561	15,665	15,587	15,758	1,620
13	3,35	17,157	17,193	17,168	17,230	17,185	17,285	17,211	17,376	1,567
14	3,35	19,078	19,114	19,089	19,150	19,105	19,205	19,132	19,295	1,546
15	3,35	20,711	20,747	20,723	20,783	20,739	20,836	20,765	20,925	1,513
16	3,35	22,607	22,642	22,619	22,678	22,635	22,732	22,661	22,821	1,501
17	3,35	24,251	24,285	24,262	24,321	24,278	24,374	24,304	24,462	1,477
18	3,35	26,129	26,163	26,140	26,199	26,157	26,252	26,183	26,340	1,469
19	3,35	27,781	27,814	27,792	27,850	27,809	27,903	27,834	27,990	1,452
20	3,35	29,645	29,678	29,656	29,714	29,673	29,767	29,699	29,855	1,447
21	3,35	31,304	31,338	31,316	31,373	31,332	31,426	31,358	31,513	1,434
22	3,35	33,157	33,191	33,169	33,226	33,186	33,279	33,212	33,367	1,430
23	3,35	34,824	34,856	34,835	34,892	34,852	34,945	34,878	35,033	1,419
24	3,35	36,668	36,700	36,680	36,736	36,696	36,789	36,723	36,877	1,416
25	3,35	38,340	38,372	38,352	38,408	38,368	38,461	38,395	38,549	1,408
26	3,35	40,176	40,209	40,188	40,244	40,205	40,297	40,232	40,386	1,405
27	3,35	41,853	41,885	41,865	41,921	41,882	41,974	41,909	42,063	1,398
28	3,35	43,683	43,715	43,695	43,751	43,713	43,804	43,740	43,893	1,396
29	3,35	45,365	45,397	45,377	45,432	45,394	45,486	45,422	45,575	1,390
30	3,35	47,189	47,221	47,202	47,257	47,219	47,311	47,246	47,400	1,389
31	3,35	48,875	48,907	48,887	48,942	48,905	48,996	48,932	49,085	1,383
32	3,35	50,695	50,726	50,707	50,762	50,725	50,816	50,752	50,906	1,382
33	3,35	52,384	52,415	52,396	52,451	52,414	52,505	52,442	52,595	1,378
34	3,35	54,199	54,231	54,212	54,267	54,230	54,321	54,258	54,411	1,377
35	3,55	55,341	55,373	55,354	55,409	55,372	55,464	55,401	55,555	1,389
36	3,55	57,153	57,185	57,166	57,221	57,184	57,276	57,213	57,368	1,388
37	3,55	58,849	58,881	58,862	58,918	58,881	58,973	58,910	59,064	1,384
38	3,55	60,658	60,690	60,671	60,726	60,690	60,782	60,719	60,874	1,382
39	3,55	62,357	62,388	62,370	62,425	62,389	62,481	62,418	62,572	1,379
40	3,55	64,163	64,194	64,176	64,231	64,195	64,286	64,224	64,379	1,378
41	3,55	65,864	65,895	65,877	65,932	65,896	65,988	65,925	66,080	1,375
42	3,55	67,667	67,698	67,680	67,735	67,699	67,791	67,729	67,883	1,373
43	3,55	69,370	69,401	69,383	69,438	69,403	69,494	69,432	69,587	1,371
44	3,55	71,170	71,201	71,184	71,239	71,203	71,295	71,233	71,388	1,370
45	3,55	72,875	72,906	72,889	72,944	72,909	73,000	72,939	73,093	1,367
46	3,55	74,674	74,705	74,688	74,742	74,707	74,798	74,737	74,892	1,366
47	3,55	76,381	76,411	76,395	76,449	76,414	76,505	76,445	76,599	1,364
48	3,55	78,177	78,208	78,191	78,245	78,211	78,302	78,241	78,396	1,363
49	3,55	79,885	79,916	79,899	79,954	79,919	80,010	79,950	80,104	1,361
50	3,55	81,680	81,710	81,694	81,748	81,714	81,805	81,745	81,899	1,361
51	3,55	83,390	83,420	83,404	83,458	83,424	83,515	83,455	83,610	1,359
52	3,55	85,182	85,213	85,197	85,251	85,217	85,308	85,248	85,403	1,358
53	3,55	86,894	86,924	86,908	86,962	86,929	87,019	86,960	87,114	1,356
54	3,55	88,685	88,715	88,699	88,753	88,720	88,811	88,751	88,906	1,356
55	3,55	90,398	90,428	90,412	90,466	90,433	90,524	90,464	90,619	1,354
56	3,55	92,187	92,217	92,202	92,256	92,222	92,313	92,254	92,409	1,354
57	3,55	93,901	93,931	93,916	93,970	93,937	94,027	93,969	94,123	1,352
58	3,55	95,689	95,719	95,704	95,758	95,725	95,816	95,757	95,912	1,352
59	3,55	97,405	97,435	97,419	97,473	97,440	97,531	97,473	97,627	1,350
60	3,55	99,191	99,221	99,206	99,260	99,227	99,318	99,260	99,415	1,350
61	3,55	100,908	100,938	100,923	100,976	100,944	101,034	100,976	101,131	1,348
62	3,55	102,693	102,723	102,708	102,762	102,730	102,820	102,762	102,917	1,348
63	3,55	104,411	104,440	104,426	104,479	104,447	104,538	104,480	104,635	1,347
64	3,55	106,195	106,225	106,210	106,264	106,232	106,322	106,265	106,420	1,347
65	3,55	107,913	107,943	107,929	107,982	107,950	108,041	107,983	108,138	1,345
66	3,55	109,697	109,726	109,712	109,766	109,734	109,824	109,767	109,922	1,345
67	3,55	111,416	111,446	111,431	111,485	111,453	111,544	111,487	111,642	1,344
68	3,55	113,198	113,228	113,214	113,267	113,236	113,326	113,270	113,424	1,344
69	3,55	114,918	114,948	114,934	114,987	114,956	115,046	114,990	115,145	1,343
70	3,55	116,700	116,729	116,716	116,769	116,738	116,828	116,772	116,927	1,342
71	3,55	118,421	118,450	118,437	118,490	118,459	118,549	118,493	118,648	1,341
72	3,55	120,201	120,231	120,217	120,270	120,240	120,330	120,274	120,429	1,341
73	3,55	121,923	121,952	121,939	121,992	121,961	122,052	121,996	122,151	1,340
74	3,55	123,703	123,732	123,719	123,772	123,741	123,832	123,776	123,931	1,340
75	3,55	125,425	125,454	125,441	125,494	125,464	125,554	125,499	125,654	1,339
76	3,55	127,204	127,233	127,220	127,273	127,243	127,333	127,278	127,433	1,339
77	3,55	128,927	128,956	128,943	128,996	128,966	129,056	129,001	129,156	1,338
78	3,55	130,705	130,735	130,722	130,775	130,745	130,835	130,780	130,935	1,338
79	3,55	132,429	132,458	132,445	132,498	132,468	132,559	132,504	132,659	1,337
80	3,55	134,207	134,236	134,223	134,276	134,246	134,336	134,282	134,437	1,337
81	3,55	135,931	135,960	135,947	136,000	135,971	136,061	136,006	136,162	1,336
82	3,55	137,708	137,737	137,724	137,777	137,748	137,838	137,783	137,939	1,336
83	3,55	139,433	139,462	139,449	139,502	139,473	139,563	139,509	139,664	1,335
84	3,55	141,209	141,238	141,226	141,278	141,249	141,339	141,285	141,441	1,335
85	3,55	142,934	142,963	142,951	143,004	142,975	143,065	143,011	143,166	1,335
86	3,55	144,710	144,739	144,727	144,780	144,751	144,841	144,787	144,942	1,334
87	3,55	146,436	146,465	146,453	146,506	146,477	146,567	146,513	146,669	1,334
88	3,55	148,211	148,240	148,228	148,281	148,252	148,342	148,289	148,444	1,334
89	3,55	149,938	149,966	149,955	150,007	149,979	150,069	150,015	150,171	1,333
90	3,55	151,712	151,741	151,729	151,782	151,753	151,843	151,790	151,946	1,333
91	3,55	153,439	153,468	153,456	153,509	153,481	153,571	153,518	153,673	1,332
92	3,55	155,213	155,242	155,230	155,283	155,255	155,345	155,292	155,447	1,332
93	3,55	156,941	156,969	156,958	157,010	156,982	157,072	157,020	157,175	1,332
94	3,55	158,714	158,742	158,731	158,784	158,756	158,846	158,793	158,949	1,332
95	3,55	160,442	160,470	160,460	160,512	160,484	160,574	160,522	160,677	1,331
96	3,55	162,215	162,243	162,232	162,285	162,257	162,347	162,295	162,451	1,331
97	3,55	163,943	163,972	163,961	164,013	163,986	164,076	164,024	164,179	1,330
98	3,55	165,716	165,744	165,733	165,786	165,758	165,848	165,796	165,952	1,330
99	3,55	167,445	167,473	167,462	167,515	167,487	167,577	167,525	167,681	1,330
100	3,55	169,217	169,245	169,234	169,287	169,259	169,349	169,298	169,454	1,330

Table 80 — Inspection dimensions external spline, $\alpha = 37{,}5°$, $m = 1{,}75$, $S_{v\,max} = 2{,}749$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	4,50	18,194	18,216	18,173	18,210	18,141	18,201	18,088	18,186	1,004
7	4,50	19,602	19,624	19,580	19,617	19,548	19,608	19,495	19,594	0,998
8	4,25	21,200	21,224	21,177	21,217	21,143	21,207	21,085	21,191	1,056
9	4,25	22,694	22,717	22,671	22,710	22,636	22,700	22,578	22,684	1,054
10	4,00	24,160	24,185	24,136	24,178	24,099	24,167	24,038	24,150	1,100
11	4,00	25,705	25,729	25,680	25,722	25,643	25,711	25,581	25,694	1,100
12	4,00	27,693	27,719	27,668	27,711	27,630	27,700	27,566	27,682	1,122
13	4,00	29,271	29,296	29,245	29,289	29,207	29,277	29,142	29,259	1,123
14	4,00	31,219	31,245	31,192	31,236	31,153	31,225	31,087	31,206	1,139
15	4,00	32,821	32,847	32,794	32,838	32,754	32,826	32,688	32,807	1,140
16	4,00	34,739	34,765	34,712	34,757	34,671	34,744	34,604	34,725	1,153
17	3,75	35,745	35,771	35,717	35,763	35,676	35,750	35,606	35,730	1,170
18	3,75	37,638	37,665	37,610	37,656	37,568	37,643	37,497	37,623	1,181
19	3,75	39,272	39,299	39,243	39,290	39,201	39,276	39,130	39,256	1,181
20	3,75	41,149	41,176	41,120	41,166	41,077	41,153	41,005	41,132	1,190
21	3,75	42,794	42,821	42,765	42,812	42,722	42,798	42,649	42,777	1,191
22	3,75	44,658	44,685	44,628	44,675	44,584	44,662	44,511	44,640	1,198
23	3,75	46,312	46,339	46,283	46,330	46,238	46,316	46,165	46,294	1,199
24	3,75	48,165	48,193	48,136	48,183	48,091	48,169	48,016	48,147	1,205
25	3,75	49,828	49,855	49,798	49,845	49,753	49,831	49,677	49,808	1,206
26	3,75	51,672	51,699	51,642	51,689	51,596	51,675	51,520	51,652	1,211
27	3,75	53,341	53,368	53,310	53,358	53,265	53,343	53,188	53,320	1,212
28	3,75	55,178	55,205	55,147	55,195	55,101	55,180	55,024	55,157	1,217
29	3,75	56,852	56,880	56,821	56,869	56,775	56,854	56,697	56,831	1,217
30	3,75	58,683	58,710	58,651	58,700	58,605	58,684	58,526	58,661	1,222
31	3,75	60,362	60,390	60,331	60,379	60,284	60,364	60,205	60,340	1,222
32	3,75	62,187	62,215	62,155	62,204	62,108	62,188	62,029	62,164	1,226
33	3,75	63,871	63,899	63,839	63,888	63,791	63,872	63,712	63,847	1,226
34	3,75	65,691	65,719	65,659	65,708	65,611	65,692	65,531	65,667	1,230
35	3,75	67,379	67,407	67,347	67,395	67,298	67,379	67,218	67,354	1,230
36	3,75	69,194	69,222	69,162	69,211	69,114	69,195	69,032	69,170	1,233
37	3,75	70,886	70,913	70,853	70,902	70,804	70,886	70,723	70,860	1,234
38	3,75	72,698	72,726	72,665	72,714	72,616	72,697	72,534	72,672	1,236
39	3,75	74,392	74,420	74,359	74,408	74,310	74,391	74,227	74,365	1,237
40	3,75	76,200	76,228	76,167	76,217	76,118	76,200	76,035	76,174	1,239
41	3,75	77,897	77,925	77,864	77,913	77,814	77,896	77,731	77,870	1,240
42	3,75	79,703	79,731	79,670	79,719	79,620	79,702	79,536	79,675	1,242
43	3,75	81,402	81,430	81,369	81,418	81,319	81,401	81,235	81,374	1,242
44	3,75	83,205	83,233	83,172	83,221	83,121	83,204	83,037	83,177	1,245
45	3,75	84,907	84,935	84,873	84,922	84,822	84,905	84,738	84,878	1,245
46	3,75	86,707	86,735	86,673	86,723	86,622	86,705	86,537	86,678	1,247
47	3,75	88,411	88,439	88,377	88,426	88,326	88,409	88,240	88,381	1,247
48	3,75	90,209	90,237	90,175	90,225	90,124	90,207	90,038	90,179	1,249
49	3,75	91,915	91,943	91,881	91,930	91,829	91,912	91,743	91,884	1,249
50	3,75	93,711	93,739	93,677	93,726	93,625	93,708	93,538	93,680	1,251
51	3,55	94,903	94,931	94,868	94,918	94,816	94,900	94,729	94,871	1,258
52	3,55	96,697	96,725	96,662	96,712	96,609	96,693	96,522	96,665	1,259
53	3,55	98,406	98,434	98,371	98,421	98,318	98,402	98,230	98,373	1,259
54	3,55	100,198	100,226	100,163	100,213	100,110	100,194	100,021	100,165	1,261
55	3,55	101,908	101,937	101,873	101,923	101,820	101,904	101,731	101,875	1,261
56	3,55	103,699	103,727	103,664	103,714	103,610	103,694	103,521	103,665	1,262
57	3,55	105,411	105,439	105,375	105,425	105,322	105,406	105,232	105,376	1,262
58	3,55	107,200	107,228	107,164	107,214	107,110	107,195	107,021	107,165	1,263
59	3,55	108,913	108,941	108,877	108,927	108,823	108,908	108,733	108,878	1,264
60	3,55	110,701	110,729	110,665	110,715	110,611	110,695	110,520	110,665	1,265
61	3,55	112,415	112,443	112,379	112,429	112,325	112,409	112,234	112,379	1,265
62	3,55	114,202	114,230	114,165	114,215	114,111	114,196	114,020	114,165	1,266
63	3,55	115,917	115,945	115,881	115,931	115,826	115,911	115,735	115,880	1,266
64	3,55	117,702	117,730	117,666	117,716	117,611	117,696	117,520	117,665	1,267
65	3,55	119,419	119,447	119,382	119,432	119,327	119,412	119,235	119,381	1,267
66	3,55	121,203	121,231	121,166	121,216	121,111	121,196	121,019	121,165	1,268
67	3,55	122,920	122,948	122,884	122,934	122,828	122,913	122,736	122,882	1,268
68	3,55	124,703	124,731	124,667	124,717	124,611	124,696	124,519	124,664	1,269
69	3,55	126,422	126,450	126,385	126,435	126,329	126,414	126,236	126,383	1,269
70	3,55	128,204	128,232	128,167	128,217	128,111	128,196	128,018	128,164	1,270
71	3,55	129,923	129,951	129,886	129,936	129,830	129,915	129,737	129,883	1,270
72	3,55	131,705	131,732	131,667	131,717	131,611	131,696	131,517	131,664	1,271
73	3,55	133,425	133,452	133,387	133,437	133,331	133,416	133,237	133,384	1,271
74	3,55	135,205	135,233	135,167	135,218	135,111	135,196	135,017	135,164	1,272
75	3,55	136,926	136,954	136,888	136,939	136,832	136,917	136,737	136,884	1,272
76	3,55	138,705	138,733	138,668	138,718	138,611	138,696	138,516	138,663	1,272
77	3,55	140,427	140,455	140,389	140,439	140,332	140,418	140,238	140,385	1,272
78	3,55	142,206	142,234	142,168	142,218	142,111	142,196	142,016	142,163	1,273
79	3,55	143,928	143,956	143,890	143,940	143,833	143,919	143,738	143,885	1,273
80	3,55	145,706	145,734	145,668	145,718	145,611	145,696	145,515	145,663	1,274
81	3,55	147,429	147,457	147,391	147,441	147,334	147,419	147,238	147,385	1,274
82	3,55	149,207	149,234	149,168	149,218	149,111	149,196	149,014	149,162	1,275
83	3,55	150,930	150,958	150,892	150,942	150,834	150,920	150,738	150,886	1,275
84	3,55	152,707	152,734	152,668	152,719	152,610	152,696	152,514	152,662	1,275
85	3,55	154,431	154,459	154,393	154,443	154,335	154,420	154,238	154,386	1,275
86	3,55	156,207	156,235	156,168	156,219	156,110	156,196	156,013	156,161	1,276
87	3,55	157,932	157,960	157,893	157,944	157,835	157,921	157,738	157,886	1,276
88	3,55	159,708	159,735	159,669	159,719	159,610	159,696	159,512	159,661	1,276
89	3,55	161,433	161,460	161,394	161,444	161,335	161,421	161,238	161,386	1,276
90	3,55	163,208	163,235	163,169	163,219	163,110	163,196	163,012	163,161	1,277
91	3,55	164,934	164,961	164,895	164,945	164,836	164,922	164,737	164,886	1,277
92	3,55	166,708	166,735	166,669	166,719	166,610	166,696	166,511	166,660	1,278
93	3,55	168,435	168,462	168,395	168,445	168,336	168,422	168,237	168,386	1,278
94	3,55	170,208	170,235	170,169	170,219	170,109	170,195	170,010	170,160	1,278
95	3,55	171,935	171,963	171,896	171,946	171,836	171,922	171,737	171,886	1,278
96	3,55	173,708	173,736	173,669	173,719	173,609	173,695	173,510	173,659	1,279
97	3,55	175,436	175,463	175,396	175,446	175,337	175,423	175,237	175,386	1,279
98	3,55	177,209	177,236	177,169	177,219	177,109	177,195	177,009	177,159	1,279
99	3,55	178,937	178,964	178,897	178,947	178,837	178,923	178,737	178,886	1,279
100	3,55	180,709	180,736	180,669	180,719	180,609	180,695	180,508	180,658	1,280

5.21 37,5° pressure angle, module 2

Table 81 — Geometry internal spline, $\alpha = 37{,}5°$, $m = 2$, fillet root, $E_{v\,min} = 3{,}142$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	12,00	9,5202	14,99	14,20	10,61	3,179	3,201	3,234	3,290
7	14,00	11,1069	17,00	16,20	12,54	3,179	3,202	3,236	3,292
8	16,00	12,6937	19,00	18,20	14,49	3,180	3,203	3,237	3,294
9	18,00	14,2804	21,00	20,20	16,46	3,180	3,204	3,238	3,296
10	20,00	15,8671	23,00	22,20	18,43	3,181	3,204	3,239	3,298
11	22,00	17,4538	25,00	24,20	20,41	3,181	3,205	3,240	3,299
12	24,00	19,0405	27,01	26,20	22,39	3,182	3,206	3,241	3,301
13	26,00	20,6272	29,01	28,20	24,37	3,182	3,206	3,242	3,302
14	28,00	22,2139	31,01	30,20	26,36	3,182	3,207	3,243	3,304
15	30,00	23,8006	33,01	32,20	28,35	3,183	3,207	3,244	3,305
16	32,00	25,3873	35,01	34,20	30,34	3,183	3,208	3,245	3,306
17	34,00	26,9740	37,02	36,20	32,33	3,183	3,208	3,246	3,308
18	36,00	28,5607	39,02	38,20	34,32	3,184	3,209	3,246	3,309
19	38,00	30,1474	41,02	40,20	36,31	3,184	3,209	3,247	3,310
20	40,00	31,7341	43,02	42,20	38,31	3,184	3,210	3,248	3,311
21	42,00	33,3208	45,02	44,20	40,30	3,185	3,210	3,248	3,312
22	44,00	34,9075	47,02	46,20	42,30	3,185	3,211	3,249	3,313
23	46,00	36,4943	49,02	48,20	44,29	3,185	3,211	3,250	3,314
24	48,00	38,0810	51,03	50,20	46,29	3,185	3,211	3,250	3,315
25	50,00	39,6677	53,03	52,20	48,29	3,186	3,212	3,251	3,316
26	52,00	41,2544	55,03	54,20	50,28	3,186	3,212	3,252	3,317
27	54,00	42,8411	57,03	56,20	52,28	3,186	3,212	3,252	3,318
28	56,00	44,4278	59,03	58,20	54,28	3,186	3,213	3,253	3,319
29	58,00	46,0145	61,03	60,20	56,27	3,186	3,213	3,253	3,320
30	60,00	47,6012	63,03	62,20	58,27	3,187	3,214	3,254	3,321
31	62,00	49,1879	65,03	64,20	60,27	3,187	3,214	3,254	3,322
32	64,00	50,7746	67,04	66,20	62,27	3,187	3,214	3,255	3,323
33	66,00	52,3613	69,04	68,20	64,26	3,187	3,215	3,255	3,323
34	68,00	53,9480	71,04	70,20	66,26	3,188	3,215	3,256	3,324
35	70,00	55,5347	73,04	72,20	68,26	3,188	3,215	3,256	3,325
36	72,00	57,1214	75,04	74,20	70,26	3,188	3,215	3,257	3,326
37	74,00	58,7081	77,04	76,20	72,26	3,188	3,216	3,257	3,326
38	76,00	60,2949	79,04	78,20	74,26	3,188	3,216	3,258	3,327
39	78,00	61,8816	81,04	80,20	76,25	3,188	3,216	3,258	3,328
40	80,00	63,4683	83,04	82,20	78,25	3,189	3,217	3,259	3,329
41	82,00	65,0550	85,04	84,20	80,25	3,189	3,217	3,259	3,329
42	84,00	66,6417	87,05	86,20	82,25	3,189	3,217	3,260	3,330
43	86,00	68,2284	89,05	88,20	84,25	3,189	3,218	3,260	3,331
44	88,00	69,8151	91,05	90,20	86,25	3,189	3,218	3,260	3,332
45	90,00	71,4018	93,05	92,20	88,25	3,190	3,218	3,261	3,332
46	92,00	72,9885	95,05	94,20	90,25	3,190	3,218	3,261	3,333
47	94,00	74,5752	97,05	96,20	92,24	3,190	3,219	3,262	3,334
48	96,00	76,1619	99,05	98,20	94,24	3,190	3,219	3,262	3,334
49	98,00	77,7486	101,05	100,20	96,24	3,190	3,219	3,263	3,335
50	100,00	79,3353	103,05	102,20	98,24	3,190	3,219	3,263	3,336
51	102,00	80,9220	105,05	104,20	100,24	3,191	3,220	3,263	3,336
52	104,00	82,5087	107,05	106,20	102,24	3,191	3,220	3,264	3,337
53	106,00	84,0955	109,05	108,20	104,24	3,191	3,220	3,264	3,337
54	108,00	85,6822	111,06	110,20	106,24	3,191	3,220	3,264	3,338
55	110,00	87,2689	113,06	112,20	108,24	3,191	3,221	3,265	3,339
56	112,00	88,8556	115,06	114,20	110,24	3,191	3,221	3,265	3,339
57	114,00	90,4423	117,06	116,20	112,24	3,191	3,221	3,266	3,340
58	116,00	92,0290	119,06	118,20	114,24	3,192	3,221	3,266	3,340
59	118,00	93,6157	121,06	120,20	116,24	3,192	3,222	3,266	3,341
60	120,00	95,2024	123,06	122,20	118,23	3,192	3,222	3,267	3,342
61	122,00	96,7891	125,06	124,20	120,23	3,192	3,222	3,267	3,342
62	124,00	98,3758	127,06	126,20	122,23	3,192	3,222	3,267	3,343
63	126,00	99,9625	129,06	128,20	124,23	3,192	3,222	3,268	3,343
64	128,00	101,5492	131,06	130,20	126,23	3,192	3,223	3,268	3,344
65	130,00	103,1359	133,06	132,20	128,23	3,193	3,223	3,268	3,344
66	132,00	104,7226	135,06	134,20	130,23	3,193	3,223	3,269	3,345
67	134,00	106,3093	137,07	136,20	132,23	3,193	3,223	3,269	3,345
68	136,00	107,8961	139,07	138,20	134,23	3,193	3,224	3,269	3,346
69	138,00	109,4828	141,07	140,20	136,23	3,193	3,224	3,270	3,346
70	140,00	111,0695	143,07	142,20	138,23	3,193	3,224	3,270	3,347
71	142,00	112,6562	145,07	144,20	140,23	3,193	3,224	3,270	3,348
72	144,00	114,2429	147,07	146,20	142,23	3,194	3,224	3,271	3,348
73	146,00	115,8296	149,07	148,20	144,23	3,194	3,225	3,271	3,349
74	148,00	117,4163	151,07	150,20	146,23	3,194	3,225	3,271	3,349
75	150,00	119,0030	153,07	152,20	148,23	3,194	3,225	3,272	3,350
76	152,00	120,5897	155,07	154,20	150,23	3,194	3,225	3,272	3,350
77	154,00	122,1764	157,07	156,20	152,23	3,194	3,225	3,272	3,351
78	156,00	123,7631	159,07	158,20	154,23	3,194	3,226	3,273	3,351
79	158,00	125,3498	161,07	160,20	156,23	3,194	3,226	3,273	3,352
80	160,00	126,9365	163,07	162,20	158,23	3,195	3,226	3,273	3,352
81	162,00	128,5232	165,07	164,20	160,23	3,195	3,226	3,274	3,353
82	164,00	130,1099	167,08	166,20	162,23	3,195	3,226	3,274	3,353
83	166,00	131,6967	169,08	168,20	164,23	3,195	3,227	3,274	3,354
84	168,00	133,2834	171,08	170,20	166,22	3,195	3,227	3,274	3,354
85	170,00	134,8701	173,08	172,20	168,22	3,195	3,227	3,275	3,354
86	172,00	136,4568	175,08	174,20	170,22	3,195	3,227	3,275	3,355
87	174,00	138,0435	177,08	176,20	172,22	3,195	3,227	3,275	3,355
88	176,00	139,6302	179,08	178,20	174,22	3,195	3,228	3,276	3,356
89	178,00	141,2169	181,08	180,20	176,22	3,196	3,228	3,276	3,356
90	180,00	142,8036	183,08	182,20	178,22	3,196	3,228	3,276	3,357
91	182,00	144,3903	185,08	184,20	180,22	3,196	3,228	3,277	3,357
92	184,00	145,9770	187,08	186,20	182,22	3,196	3,228	3,277	3,358
93	186,00	147,5637	189,08	188,20	184,22	3,196	3,228	3,277	3,358
94	188,00	149,1504	191,08	190,20	186,22	3,196	3,229	3,277	3,359
95	190,00	150,7371	193,08	192,20	188,22	3,196	3,229	3,278	3,359
96	192,00	152,3238	195,08	194,20	190,22	3,196	3,229	3,278	3,359
97	194,00	153,9105	197,08	196,20	192,22	3,196	3,229	3,278	3,360
98	196,00	155,4973	199,08	198,20	194,22	3,197	3,229	3,278	3,360
99	198,00	157,0840	201,09	200,20	196,22	3,197	3,230	3,279	3,361
100	200,00	158,6707	203,09	202,20	198,22	3,197	3,230	3,279	3,361

Table 82 — Geometry internal spline, $\alpha = 37{,}5°$, $m = 2$, fillet root, $E_{v\,min} = 3{,}142$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	12,00	9,5202	13,80	10,21	9,01	3,105	3,083	3,050	2,994
7	14,00	11,1069	15,80	12,14	11,00	3,105	3,082	3,048	2,992
8	16,00	12,6937	17,80	14,09	13,00	3,104	3,081	3,047	2,990
9	18,00	14,2804	19,80	16,06	15,00	3,104	3,080	3,046	2,988
10	20,00	15,8671	21,80	18,03	17,00	3,103	3,080	3,045	2,986
11	22,00	17,4538	23,80	20,01	19,00	3,103	3,079	3,044	2,985
12	24,00	19,0405	25,80	21,99	20,99	3,102	3,078	3,043	2,983
13	26,00	20,6272	27,80	23,97	22,99	3,102	3,078	3,042	2,982
14	28,00	22,2139	29,80	25,96	24,99	3,102	3,077	3,041	2,980
15	30,00	23,8006	31,80	27,95	26,99	3,101	3,077	3,040	2,979
16	32,00	25,3873	33,80	29,94	28,99	3,101	3,076	3,039	2,978
17	34,00	26,9740	35,80	31,93	30,98	3,101	3,076	3,038	2,976
18	36,00	28,5607	37,80	33,92	32,98	3,100	3,075	3,038	2,975
19	38,00	30,1474	39,80	35,91	34,98	3,100	3,075	3,037	2,974
20	40,00	31,7341	41,80	37,91	36,98	3,100	3,074	3,036	2,973
21	42,00	33,3208	43,80	39,90	38,98	3,099	3,074	3,036	2,972
22	44,00	34,9075	45,80	41,90	40,98	3,099	3,073	3,035	2,971
23	46,00	36,4943	47,80	43,89	42,98	3,099	3,073	3,034	2,970
24	48,00	38,0810	49,80	45,89	44,97	3,099	3,073	3,034	2,969
25	50,00	39,6677	51,80	47,89	46,97	3,098	3,072	3,033	2,968
26	52,00	41,2544	53,80	49,88	48,97	3,098	3,072	3,032	2,967
27	54,00	42,8411	55,80	51,88	50,97	3,098	3,072	3,032	2,966
28	56,00	44,4278	57,80	53,88	52,97	3,098	3,071	3,031	2,965
29	58,00	46,0145	59,80	55,87	54,97	3,098	3,071	3,031	2,964
30	60,00	47,6012	61,80	57,87	56,97	3,097	3,070	3,030	2,963
31	62,00	49,1879	63,80	59,87	58,97	3,097	3,070	3,030	2,962
32	64,00	50,7746	65,80	61,87	60,96	3,097	3,070	3,029	2,961
33	66,00	52,3613	67,80	63,86	62,96	3,097	3,069	3,029	2,961
34	68,00	53,9480	69,80	65,86	64,96	3,096	3,069	3,028	2,960
35	70,00	55,5347	71,80	67,86	66,96	3,096	3,069	3,028	2,959
36	72,00	57,1214	73,80	69,86	68,96	3,096	3,069	3,027	2,958
37	74,00	58,7081	75,80	71,86	70,96	3,096	3,068	3,027	2,958
38	76,00	60,2949	77,80	73,86	72,96	3,096	3,068	3,026	2,957
39	78,00	61,8816	79,80	75,85	74,96	3,096	3,068	3,026	2,956
40	80,00	63,4683	81,80	77,85	76,96	3,095	3,067	3,025	2,955
41	82,00	65,0550	83,80	79,85	78,96	3,095	3,067	3,025	2,955
42	84,00	66,6417	85,80	81,85	80,95	3,095	3,067	3,024	2,954
43	86,00	68,2284	87,80	83,85	82,95	3,095	3,066	3,024	2,953
44	88,00	69,8151	89,80	85,85	84,95	3,095	3,066	3,024	2,952
45	90,00	71,4018	91,80	87,85	86,95	3,094	3,066	3,023	2,952
46	92,00	72,9885	93,80	89,85	88,95	3,094	3,066	3,023	2,951
47	94,00	74,5752	95,80	91,84	90,95	3,094	3,065	3,022	2,950
48	96,00	76,1619	97,80	93,84	92,95	3,094	3,065	3,022	2,950
49	98,00	77,7486	99,80	95,84	94,95	3,094	3,065	3,021	2,949
50	100,00	79,3353	101,80	97,84	96,95	3,094	3,065	3,021	2,948
51	102,00	80,9220	103,80	99,84	98,95	3,093	3,064	3,021	2,948
52	104,00	82,5087	105,80	101,84	100,95	3,093	3,064	3,020	2,947
53	106,00	84,0955	107,80	103,84	102,95	3,093	3,064	3,020	2,947
54	108,00	85,6822	109,80	105,84	104,94	3,093	3,064	3,020	2,946
55	110,00	87,2689	111,80	107,84	106,94	3,093	3,063	3,019	2,945
56	112,00	88,8556	113,80	109,84	108,94	3,093	3,063	3,019	2,945
57	114,00	90,4423	115,80	111,84	110,94	3,093	3,063	3,018	2,944
58	116,00	92,0290	117,80	113,84	112,94	3,092	3,063	3,018	2,944
59	118,00	93,6157	119,80	115,84	114,94	3,092	3,062	3,018	2,943
60	120,00	95,2024	121,80	117,83	116,94	3,092	3,062	3,017	2,942
61	122,00	96,7891	123,80	119,83	118,94	3,092	3,062	3,017	2,942
62	124,00	98,3758	125,80	121,83	120,94	3,092	3,062	3,017	2,941
63	126,00	99,9625	127,80	123,83	122,94	3,092	3,062	3,016	2,941
64	128,00	101,5492	129,80	125,83	124,94	3,092	3,061	3,016	2,940
65	130,00	103,1359	131,80	127,83	126,94	3,091	3,061	3,016	2,940
66	132,00	104,7226	133,80	129,83	128,94	3,091	3,061	3,015	2,939
67	134,00	106,3093	135,80	131,83	130,93	3,091	3,061	3,015	2,939
68	136,00	107,8961	137,80	133,83	132,93	3,091	3,060	3,015	2,938
69	138,00	109,4828	139,80	135,83	134,93	3,091	3,060	3,014	2,938
70	140,00	111,0695	141,80	137,83	136,93	3,091	3,060	3,014	2,937
71	142,00	112,6562	143,80	139,83	138,93	3,091	3,060	3,014	2,936
72	144,00	114,2429	145,80	141,83	140,93	3,090	3,060	3,013	2,936
73	146,00	115,8296	147,80	143,83	142,93	3,090	3,059	3,013	2,935
74	148,00	117,4163	149,80	145,83	144,93	3,090	3,059	3,013	2,935
75	150,00	119,0030	151,80	147,83	146,93	3,090	3,059	3,012	2,934
76	152,00	120,5897	153,80	149,83	148,93	3,090	3,059	3,012	2,934
77	154,00	122,1764	155,80	151,83	150,93	3,090	3,059	3,012	2,933
78	156,00	123,7631	157,80	153,83	152,93	3,090	3,058	3,011	2,933
79	158,00	125,3498	159,80	155,83	154,93	3,090	3,058	3,011	2,932
80	160,00	126,9365	161,80	157,83	156,93	3,089	3,058	3,011	2,932
81	162,00	128,5232	163,80	159,83	158,93	3,089	3,058	3,010	2,931
82	164,00	130,1099	165,80	161,83	160,92	3,089	3,058	3,010	2,931
83	166,00	131,6967	167,80	163,83	162,92	3,089	3,057	3,010	2,930
84	168,00	133,2834	169,80	165,82	164,92	3,089	3,057	3,010	2,930
85	170,00	134,8701	171,80	167,82	166,92	3,089	3,057	3,009	2,930
86	172,00	136,4568	173,80	169,82	168,92	3,089	3,057	3,009	2,929
87	174,00	138,0435	175,80	171,82	170,92	3,089	3,057	3,009	2,929
88	176,00	139,6302	177,80	173,82	172,92	3,089	3,056	3,008	2,928
89	178,00	141,2169	179,80	175,82	174,92	3,088	3,056	3,008	2,928
90	180,00	142,8036	181,80	177,82	176,92	3,088	3,056	3,008	2,927
91	182,00	144,3903	183,80	179,82	178,92	3,088	3,056	3,007	2,927
92	184,00	145,9770	185,80	181,82	180,92	3,088	3,056	3,007	2,926
93	186,00	147,5637	187,80	183,82	182,92	3,088	3,056	3,007	2,926
94	188,00	149,1504	189,80	185,82	184,92	3,088	3,055	3,007	2,925
95	190,00	150,7371	191,80	187,82	186,92	3,088	3,055	3,006	2,925
96	192,00	152,3238	193,80	189,82	188,92	3,088	3,055	3,006	2,925
97	194,00	153,9105	195,80	191,82	190,92	3,088	3,055	3,006	2,924
98	196,00	155,4973	197,80	193,82	192,92	3,087	3,055	3,006	2,924
99	198,00	157,0840	199,80	195,82	194,91	3,087	3,054	3,005	2,923
100	200,00	158,6707	201,80	197,82	196,91	3,087	3,054	3,005	2,923

Table 83 — Inspection dimensions internal spline, $\alpha = 37{,}5°$, $m = 2$, $E_{v\,min} = 3{,}142$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	3,55	6,171	6,255	6,196	6,325	6,229	6,418	6,279	6,557	2,363
7	3,55	8,087	8,136	8,100	8,181	8,120	8,248	8,152	8,355	1,861
8	3,55	10,469	10,513	10,482	10,554	10,500	10,616	10,528	10,717	1,738
9	3,55	12,274	12,314	12,286	12,353	12,303	12,410	12,329	12,505	1,620
10	3,75	13,918	13,960	13,930	14,002	13,948	14,063	13,977	14,164	1,709
11	3,75	15,760	15,800	15,772	15,839	15,789	15,898	15,817	15,994	1,622
12	3,75	17,992	18,031	18,004	18,069	18,021	18,127	18,048	18,223	1,590
13	3,75	19,842	19,880	19,854	19,918	19,871	19,975	19,898	20,068	1,542
14	3,75	22,035	22,072	22,047	22,110	22,064	22,166	22,090	22,259	1,525
15	3,75	23,899	23,935	23,910	23,972	23,927	24,028	23,954	24,119	1,495
16	3,75	26,064	26,100	26,076	26,137	26,093	26,193	26,119	26,285	1,485
17	3,75	27,940	27,975	27,951	28,012	27,968	28,067	27,995	28,158	1,463
18	3,75	30,085	30,120	30,097	30,157	30,114	30,212	30,140	30,304	1,457
19	3,75	31,971	32,006	31,983	32,043	32,000	32,097	32,026	32,188	1,441
20	3,75	34,101	34,136	34,113	34,172	34,130	34,227	34,157	34,319	1,436
21	4,00	35,285	35,321	35,298	35,358	35,315	35,415	35,343	35,508	1,462
22	4,00	37,405	37,440	37,417	37,478	37,435	37,534	37,463	37,628	1,456
23	4,00	39,311	39,346	39,324	39,384	39,342	39,440	39,370	39,534	1,444
24	4,00	41,420	41,455	41,433	41,492	41,450	41,549	41,479	41,643	1,439
25	4,00	43,333	43,367	43,346	43,405	43,364	43,461	43,392	43,555	1,429
26	4,00	45,433	45,467	45,445	45,505	45,463	45,561	45,492	45,655	1,426
27	4,00	47,351	47,385	47,364	47,423	47,382	47,479	47,411	47,573	1,417
28	4,00	49,443	49,477	49,456	49,515	49,474	49,572	49,503	49,666	1,414
29	4,00	51,367	51,400	51,380	51,438	51,398	51,495	51,427	51,589	1,407
30	4,00	53,452	53,486	53,465	53,524	53,484	53,581	53,513	53,675	1,405
31	4,00	55,380	55,413	55,393	55,451	55,412	55,508	55,441	55,603	1,399
32	4,00	57,460	57,493	57,473	57,531	57,492	57,588	57,521	57,683	1,397
33	4,00	59,392	59,425	59,405	59,463	59,424	59,520	59,453	59,615	1,392
34	4,00	61,467	61,500	61,480	61,538	61,499	61,595	61,529	61,690	1,390
35	4,00	63,402	63,435	63,415	63,473	63,435	63,530	63,464	63,626	1,386
36	4,00	65,473	65,506	65,486	65,544	65,506	65,601	65,536	65,697	1,385
37	4,00	67,411	67,444	67,425	67,482	67,444	67,540	67,474	67,635	1,381
38	4,00	69,478	69,511	69,492	69,549	69,511	69,607	69,542	69,703	1,379
39	4,00	71,419	71,452	71,433	71,490	71,453	71,548	71,483	71,644	1,376
40	4,00	73,483	73,515	73,497	73,554	73,517	73,612	73,547	73,708	1,375
41	4,00	75,427	75,459	75,441	75,498	75,461	75,556	75,491	75,652	1,372
42	4,00	77,487	77,520	77,501	77,558	77,521	77,617	77,552	77,713	1,371
43	4,00	79,433	79,466	79,448	79,505	79,468	79,563	79,499	79,660	1,368
44	4,00	81,491	81,523	81,505	81,562	81,526	81,621	81,557	81,718	1,367
45	4,00	83,440	83,472	83,454	83,511	83,474	83,569	83,506	83,667	1,365
46	4,00	85,495	85,527	85,509	85,566	85,530	85,625	85,561	85,722	1,364
47	4,00	87,445	87,477	87,460	87,516	87,480	87,575	87,512	87,673	1,362
48	4,00	89,498	89,530	89,513	89,569	89,533	89,628	89,565	89,726	1,361
49	4,00	91,450	91,482	91,465	91,522	91,486	91,581	91,518	91,679	1,359
50	4,00	93,501	93,533	93,516	93,572	93,537	93,632	93,569	93,730	1,359
51	4,00	95,455	95,487	95,470	95,527	95,491	95,586	95,524	95,685	1,357
52	4,00	97,504	97,535	97,519	97,575	97,540	97,635	97,573	97,734	1,356
53	4,00	99,460	99,491	99,475	99,531	99,496	99,591	99,529	99,690	1,354
54	4,00	101,506	101,538	101,522	101,578	101,543	101,638	101,576	101,737	1,354
55	4,00	103,464	103,495	103,479	103,535	103,501	103,595	103,534	103,695	1,352
56	4,00	105,509	105,540	105,524	105,580	105,546	105,640	105,579	105,740	1,352
57	4,00	107,468	107,499	107,483	107,539	107,505	107,599	107,539	107,700	1,350
58	4,00	109,511	109,542	109,527	109,583	109,549	109,643	109,582	109,744	1,350
59	4,00	111,471	111,502	111,487	111,543	111,509	111,603	111,543	111,704	1,349
60	4,00	113,513	113,544	113,529	113,585	113,551	113,646	113,585	113,746	1,348
61	4,00	115,475	115,506	115,490	115,546	115,513	115,607	115,547	115,708	1,347
62	4,00	117,515	117,546	117,531	117,587	117,554	117,648	117,588	117,749	1,347
63	4,00	119,478	119,509	119,494	119,550	119,516	119,611	119,551	119,712	1,345
64	4,00	121,517	121,548	121,533	121,589	121,556	121,650	121,591	121,752	1,345
65	4,00	123,481	123,512	123,497	123,553	123,520	123,614	123,555	123,716	1,344
66	4,00	125,519	125,550	125,535	125,591	125,558	125,652	125,593	125,755	1,344
67	4,00	127,484	127,514	127,500	127,556	127,523	127,617	127,558	127,720	1,343
68	4,00	129,521	129,551	129,537	129,593	129,560	129,654	129,596	129,757	1,342
69	4,00	131,486	131,517	131,503	131,558	131,526	131,620	131,562	131,723	1,341
70	4,00	133,522	133,553	133,539	133,594	133,562	133,656	133,598	133,759	1,341
71	4,00	135,489	135,520	135,506	135,561	135,529	135,623	135,565	135,726	1,340
72	4,00	137,524	137,554	137,541	137,596	137,564	137,658	137,600	137,762	1,340
73	4,00	139,491	139,522	139,508	139,563	139,532	139,626	139,568	139,730	1,339
74	4,00	141,525	141,556	141,542	141,597	141,566	141,660	141,602	141,764	1,339
75	4,00	143,494	143,524	143,511	143,566	143,535	143,628	143,571	143,733	1,338
76	4,00	145,527	145,557	145,544	145,599	145,568	145,662	145,605	145,766	1,338
77	4,00	147,496	147,526	147,513	147,568	147,537	147,631	147,574	147,736	1,337
78	4,00	149,528	149,558	149,545	149,600	149,570	149,663	149,607	149,768	1,337
79	4,00	151,498	151,528	151,515	151,570	151,540	151,633	151,577	151,738	1,336
80	4,00	153,529	153,560	153,547	153,602	153,571	153,665	153,609	153,770	1,336
81	4,00	155,500	155,530	155,517	155,572	155,542	155,636	155,580	155,741	1,335
82	4,00	157,531	157,561	157,548	157,603	157,573	157,667	157,611	157,772	1,335
83	4,00	159,502	159,532	159,520	159,574	159,544	159,638	159,582	159,744	1,334
84	4,00	161,532	161,562	161,550	161,604	161,574	161,668	161,612	161,774	1,334
85	4,00	163,504	163,534	163,522	163,576	163,547	163,640	163,585	163,746	1,334
86	4,00	165,533	165,563	165,551	165,606	165,576	165,670	165,614	165,776	1,333
87	4,00	167,506	167,535	167,524	167,578	167,549	167,642	167,587	167,749	1,333
88	4,00	169,534	169,564	169,552	169,607	169,577	169,671	169,616	169,778	1,333
89	4,00	171,507	171,537	171,525	171,580	171,551	171,644	171,590	171,751	1,332
90	4,00	173,535	173,565	173,553	173,608	173,579	173,672	173,618	173,780	1,332
91	4,00	175,509	175,539	175,527	175,582	175,553	175,646	175,592	175,754	1,331
92	4,00	177,536	177,566	177,555	177,609	177,580	177,674	177,619	177,781	1,331
93	4,00	179,511	179,540	179,529	179,583	179,555	179,648	179,594	179,756	1,331
94	4,00	181,537	181,567	181,556	181,610	181,582	181,675	181,621	181,783	1,331
95	4,00	183,512	183,542	183,531	183,585	183,557	183,650	183,596	183,758	1,330
96	4,00	185,538	185,568	185,557	185,611	185,583	185,676	185,623	185,785	1,330
97	4,00	187,514	187,543	187,532	187,586	187,558	187,652	187,598	187,760	1,330
98	4,00	189,539	189,568	189,558	189,612	189,584	189,678	189,624	189,786	1,329
99	4,00	191,515	191,544	191,534	191,588	191,560	191,654	191,600	191,763	1,329
100	4,00	193,540	193,569	193,559	193,613	193,585	193,679	193,626	193,788	1,329

Table 84 — Inspection dimensions external spline, $\alpha = 37{,}5°$, $m = 2$, $S_{V\,max} = 3{,}142$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	5,30	21,151	21,174	21,129	21,167	21,096	21,158	21,041	21,143	0,996
7	5,00	22,083	22,106	22,060	22,100	22,027	22,090	21,970	22,075	1,005
8	4,75	23,983	24,008	23,959	24,001	23,923	23,990	23,862	23,974	1,061
9	4,75	25,690	25,715	25,666	25,708	25,629	25,697	25,568	25,681	1,060
10	4,75	28,039	28,065	28,014	28,058	27,976	28,047	27,913	28,029	1,089
11	4,50	29,211	29,237	29,185	29,229	29,146	29,218	29,081	29,199	1,104
12	4,50	31,481	31,508	31,455	31,500	31,415	31,488	31,348	31,469	1,125
13	4,50	33,285	33,311	33,258	33,303	33,217	33,291	33,150	33,272	1,126
14	4,50	35,509	35,536	35,482	35,528	35,440	35,515	35,371	35,496	1,142
15	4,50	37,340	37,367	37,312	37,358	37,270	37,346	37,200	37,326	1,144
16	4,50	39,531	39,559	39,503	39,550	39,460	39,537	39,389	39,517	1,157
17	4,50	41,383	41,410	41,354	41,401	41,311	41,388	41,239	41,368	1,158
18	4,50	43,549	43,577	43,520	43,568	43,476	43,554	43,403	43,533	1,168
19	4,25	44,798	44,826	44,768	44,817	44,724	44,803	44,649	44,781	1,183
20	4,25	46,943	46,971	46,912	46,961	46,867	46,947	46,792	46,925	1,191
21	4,25	48,823	48,851	48,792	48,841	48,747	48,827	48,671	48,805	1,192
22	4,25	50,953	50,981	50,922	50,971	50,876	50,957	50,799	50,934	1,199
23	4,25	52,843	52,872	52,813	52,862	52,766	52,847	52,689	52,824	1,200
24	4,25	54,961	54,990	54,930	54,979	54,883	54,965	54,805	54,941	1,206
25	4,25	56,861	56,890	56,829	56,879	56,782	56,864	56,703	56,841	1,207
26	4,25	58,968	58,997	58,937	58,987	58,889	58,971	58,809	58,948	1,212
27	4,25	60,876	60,905	60,844	60,894	60,796	60,878	60,716	60,854	1,213
28	4,25	62,975	63,004	62,943	62,993	62,894	62,977	62,813	62,953	1,218
29	4,25	64,889	64,918	64,856	64,906	64,808	64,891	64,726	64,866	1,218
30	4,25	66,980	67,009	66,948	66,998	66,899	66,982	66,817	66,957	1,222
31	4,25	68,900	68,929	68,867	68,917	68,818	68,901	68,735	68,876	1,223
32	4,25	70,985	71,014	70,952	71,003	70,902	70,986	70,819	70,961	1,227
33	4,25	72,910	72,939	72,876	72,927	72,826	72,911	72,743	72,885	1,227
34	4,25	74,990	75,019	74,956	75,007	74,906	74,990	74,822	74,964	1,231
35	4,25	76,918	76,947	76,885	76,936	76,834	76,919	76,750	76,892	1,231
36	4,25	78,993	79,023	78,960	79,011	78,909	78,994	78,824	78,967	1,234
37	4,25	80,926	80,955	80,892	80,943	80,841	80,926	80,756	80,899	1,235
38	4,25	82,997	83,026	82,963	83,014	82,911	82,997	82,825	82,970	1,237
39	4,25	84,933	84,962	84,899	84,950	84,847	84,932	84,761	84,905	1,238
40	4,25	87,000	87,029	86,965	87,017	86,913	86,999	86,827	86,972	1,240
41	4,25	88,939	88,969	88,905	88,956	88,852	88,938	88,765	88,910	1,241
42	4,25	91,003	91,032	90,968	91,019	90,915	91,001	90,828	90,973	1,243
43	4,25	92,945	92,974	92,910	92,961	92,857	92,943	92,769	92,915	1,243
44	4,25	95,006	95,035	94,970	95,022	94,917	95,003	94,829	94,975	1,245
45	4,25	96,950	96,979	96,915	96,966	96,862	96,948	96,773	96,919	1,246
46	4,25	99,008	99,037	98,972	99,024	98,919	99,005	98,830	98,976	1,247
47	4,25	100,955	100,984	100,919	100,971	100,866	100,952	100,776	100,923	1,248
48	4,25	103,010	103,039	102,974	103,026	102,920	103,007	102,830	102,978	1,250
49	4,25	104,959	104,988	104,923	104,975	104,869	104,956	104,779	104,926	1,250
50	4,25	107,012	107,041	106,976	107,028	106,921	107,008	106,831	106,979	1,251
51	4,25	108,963	108,992	108,927	108,979	108,872	108,959	108,781	108,929	1,252
52	4,25	111,014	111,043	110,977	111,029	110,922	111,010	110,831	110,979	1,253
53	4,25	112,967	112,996	112,930	112,982	112,875	112,962	112,783	112,932	1,254
54	4,25	115,015	115,045	114,979	115,031	114,923	115,011	114,831	114,980	1,255
55	4,25	116,970	116,999	116,933	116,985	116,878	116,965	116,785	116,935	1,255
56	4,25	119,017	119,046	118,980	119,032	118,924	119,012	118,831	118,981	1,257
57	4,25	120,973	121,002	120,936	120,988	120,880	120,968	120,787	120,937	1,257
58	4,25	123,018	123,047	122,981	123,033	122,925	123,013	122,831	122,981	1,258
59	4,25	124,976	125,005	124,939	124,991	124,883	124,970	124,789	124,939	1,258
60	4,25	127,020	127,049	126,982	127,034	126,926	127,014	126,832	126,982	1,259
61	4,25	128,979	129,008	128,941	128,993	128,885	128,973	128,790	128,941	1,260
62	4,25	131,021	131,050	130,983	131,035	130,926	131,014	130,831	130,982	1,261
63	4,25	132,982	133,010	132,944	132,996	132,887	132,975	132,791	132,942	1,261
64	4,25	135,022	135,051	134,984	135,036	134,927	135,015	134,831	134,982	1,262
65	4,25	136,984	137,013	136,946	136,998	136,888	136,976	136,793	136,944	1,262
66	4,25	139,023	139,052	138,985	139,037	138,927	139,015	138,831	138,983	1,263
67	4,25	140,986	141,015	140,948	141,000	140,890	140,978	140,794	140,945	1,263
68	4,25	143,024	143,053	142,986	143,038	142,928	143,016	142,831	142,983	1,264
69	4,25	144,988	145,017	144,949	145,001	144,891	144,980	144,794	144,946	1,264
70	4,25	147,025	147,054	146,986	147,038	146,928	147,016	146,831	146,983	1,265
71	4,25	148,990	149,019	148,951	149,003	148,893	148,981	148,795	148,947	1,265
72	4,25	151,026	151,055	150,987	151,039	150,928	151,017	150,830	150,983	1,266
73	4,25	152,992	153,021	152,953	153,005	152,894	152,982	152,796	152,948	1,266
74	4,25	155,027	155,055	154,987	155,039	154,928	155,017	154,830	154,983	1,267
75	4,25	156,994	157,022	156,954	157,006	156,895	156,984	156,796	156,949	1,267
76	4,25	159,027	159,056	158,988	159,040	158,929	159,017	158,830	158,983	1,268
77	4,25	160,995	161,024	160,956	161,008	160,896	160,985	160,797	160,950	1,268
78	4,25	163,028	163,057	162,988	163,040	162,929	163,018	162,829	162,983	1,269
79	4,25	164,997	165,025	164,957	165,009	164,897	164,986	164,797	164,951	1,269
80	4,25	167,029	167,057	166,989	167,041	166,929	167,018	166,829	166,982	1,270
81	4,25	168,998	169,027	168,958	169,010	168,898	168,987	168,798	168,951	1,270
82	4,25	171,029	171,058	170,989	171,041	170,929	171,018	170,829	170,982	1,271
83	4,25	173,000	173,028	172,959	173,011	172,899	172,988	172,798	172,952	1,271
84	4,25	175,030	175,058	174,990	175,042	174,929	175,018	174,828	174,982	1,271
85	4,25	177,001	177,029	176,960	177,012	176,900	176,989	176,798	176,952	1,271
86	4,25	179,031	179,059	178,990	179,042	178,929	179,018	178,828	178,982	1,272
87	4,25	181,002	181,030	180,961	181,013	180,900	180,989	180,799	180,953	1,272
88	4,25	183,031	183,059	182,990	183,042	182,929	183,018	182,827	182,982	1,273
89	4,25	185,003	185,031	184,962	185,014	184,901	184,990	184,799	184,953	1,273
90	4,25	187,032	187,060	186,991	187,043	186,929	187,018	186,827	186,981	1,273
91	4,25	189,004	189,032	188,963	189,015	188,902	188,991	188,799	188,954	1,273
92	4,25	191,032	191,060	190,991	191,043	190,929	191,018	190,826	190,981	1,274
93	4,25	193,005	193,033	192,964	193,016	192,902	192,991	192,799	192,954	1,274
94	4,25	195,032	195,061	194,991	195,043	194,929	195,018	194,826	194,981	1,274
95	4,25	197,006	197,034	196,965	197,017	196,903	196,992	196,799	196,954	1,275
96	4,25	199,033	199,061	198,991	199,043	198,929	199,018	198,825	198,980	1,275
97	4,25	201,007	201,035	200,966	201,017	200,903	200,992	200,799	200,954	1,275
98	4,25	203,033	203,061	202,991	203,043	202,929	203,018	202,824	202,980	1,276
99	4,25	205,008	205,036	204,966	205,018	204,904	204,993	204,799	204,954	1,276
100	4,25	207,034	207,062	206,992	207,043	206,929	207,018	206,824	206,979	1,276

5.22 37,5° pressure angle, module 2,5

Table 85 — Geometry internal spline, $\alpha = 37{,}5°$, $m = 2{,}5$, fillet root, $E_{v\,min} = 3{,}927$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	15,00	11,9003	18,71	17,75	13,26	3,967	3,991	4,027	4,086
7	17,50	13,8837	21,21	20,25	15,68	3,967	3,992	4,028	4,089
8	20,00	15,8671	23,71	22,75	18,12	3,968	3,993	4,029	4,091
9	22,50	17,8505	26,22	25,25	20,57	3,968	3,993	4,031	4,093
10	25,00	19,8338	28,72	27,75	23,04	3,969	3,994	4,032	4,095
11	27,50	21,8172	31,22	30,25	25,51	3,969	3,995	4,033	4,097
12	30,00	23,8006	33,72	32,75	27,98	3,970	3,996	4,034	4,098
13	32,50	25,7840	36,23	35,25	30,47	3,970	3,996	4,035	4,100
14	35,00	27,7674	38,73	37,75	32,95	3,971	3,997	4,036	4,102
15	37,50	29,7508	41,23	40,25	35,43	3,971	3,997	4,037	4,103
16	40,00	31,7341	43,73	42,75	37,92	3,971	3,998	4,038	4,104
17	42,50	33,7175	46,23	45,25	40,41	3,972	3,998	4,039	4,106
18	45,00	35,7009	48,73	47,75	42,90	3,972	3,999	4,040	4,107
19	47,50	37,6843	51,24	50,25	45,39	3,972	4,000	4,040	4,108
20	50,00	39,6677	53,74	52,75	47,89	3,973	4,000	4,041	4,110
21	52,50	41,6511	56,24	55,25	50,38	3,973	4,000	4,042	4,111
22	55,00	43,6344	58,74	57,75	52,87	3,973	4,001	4,043	4,112
23	57,50	45,6178	61,24	60,25	55,37	3,973	4,001	4,043	4,113
24	60,00	47,6012	63,74	62,75	57,86	3,974	4,002	4,044	4,114
25	62,50	49,5846	66,25	65,25	60,36	3,974	4,002	4,045	4,115
26	65,00	51,5680	68,75	67,75	62,85	3,974	4,003	4,045	4,116
27	67,50	53,5514	71,25	70,25	65,35	3,975	4,003	4,046	4,117
28	70,00	55,5347	73,75	72,75	67,85	3,975	4,003	4,047	4,118
29	72,50	57,5181	76,25	75,25	70,34	3,975	4,004	4,047	4,119
30	75,00	59,5015	78,75	77,75	72,84	3,975	4,004	4,048	4,120
31	77,50	61,4849	81,25	80,25	75,34	3,976	4,005	4,048	4,121
32	80,00	63,4683	83,75	82,75	77,83	3,976	4,005	4,049	4,122
33	82,50	65,4517	86,26	85,25	80,33	3,976	4,005	4,049	4,123
34	85,00	67,4350	88,76	87,75	82,83	3,976	4,006	4,050	4,124
35	87,50	69,4184	91,26	90,25	85,33	3,976	4,006	4,051	4,125
36	90,00	71,4018	93,76	92,75	87,82	3,977	4,006	4,051	4,125
37	92,50	73,3852	96,26	95,25	90,32	3,977	4,007	4,052	4,126
38	95,00	75,3686	98,76	97,75	92,82	3,977	4,007	4,052	4,127
39	97,50	77,3520	101,26	100,25	95,32	3,977	4,007	4,053	4,128
40	100,00	79,3353	103,76	102,75	97,82	3,977	4,008	4,053	4,129
41	102,50	81,3187	106,26	105,25	100,31	3,978	4,008	4,054	4,130
42	105,00	83,3021	108,76	107,75	102,81	3,978	4,008	4,054	4,130
43	107,50	85,2855	111,27	110,25	105,31	3,978	4,009	4,055	4,131
44	110,00	87,2689	113,77	112,75	107,81	3,978	4,009	4,055	4,132
45	112,50	89,2523	116,27	115,25	110,31	3,978	4,009	4,056	4,133
46	115,00	91,2356	118,77	117,75	112,81	3,979	4,010	4,056	4,133
47	117,50	93,2190	121,27	120,25	115,31	3,979	4,010	4,056	4,134
48	120,00	95,2024	123,77	122,75	117,80	3,979	4,010	4,057	4,135
49	122,50	97,1858	126,27	125,25	120,30	3,979	4,010	4,057	4,136
50	125,00	99,1692	128,77	127,75	122,80	3,979	4,011	4,058	4,136
51	127,50	101,1526	131,27	130,25	125,30	3,979	4,011	4,058	4,137
52	130,00	103,1359	133,77	132,75	127,80	3,980	4,011	4,059	4,138
53	132,50	105,1193	136,28	135,25	130,30	3,980	4,012	4,059	4,138
54	135,00	107,1027	138,78	137,75	132,80	3,980	4,012	4,059	4,139
55	137,50	109,0861	141,28	140,25	135,30	3,980	4,012	4,060	4,140
56	140,00	111,0695	143,78	142,75	137,80	3,980	4,012	4,060	4,140
57	142,50	113,0529	146,28	145,25	140,30	3,980	4,013	4,061	4,141
58	145,00	115,0362	148,78	147,75	142,80	3,981	4,013	4,061	4,142
59	147,50	117,0196	151,28	150,25	145,29	3,981	4,013	4,062	4,142
60	150,00	119,0030	153,78	152,75	147,79	3,981	4,013	4,062	4,143
61	152,50	120,9864	156,28	155,25	150,29	3,981	4,014	4,062	4,143
62	155,00	122,9698	158,78	157,75	152,79	3,981	4,014	4,063	4,144
63	157,50	124,9532	161,28	160,25	155,29	3,981	4,014	4,063	4,145
64	160,00	126,9365	163,78	162,75	157,79	3,982	4,014	4,063	4,145
65	162,50	128,9199	166,29	165,25	160,29	3,982	4,015	4,064	4,146
66	165,00	130,9033	168,79	167,75	162,79	3,982	4,015	4,064	4,147
67	167,50	132,8867	171,29	170,25	165,29	3,982	4,015	4,065	4,147
68	170,00	134,8701	173,79	172,75	167,79	3,982	4,015	4,065	4,148
69	172,50	136,8535	176,29	175,25	170,29	3,982	4,016	4,065	4,148
70	175,00	138,8368	178,79	177,75	172,79	3,982	4,016	4,066	4,149
71	177,50	140,8202	181,29	180,25	175,29	3,983	4,016	4,066	4,149
72	180,00	142,8036	183,79	182,75	177,79	3,983	4,016	4,066	4,150
73	182,50	144,7870	186,29	185,25	180,29	3,983	4,016	4,067	4,151
74	185,00	146,7704	188,79	187,75	182,79	3,983	4,017	4,067	4,151
75	187,50	148,7538	191,29	190,25	185,28	3,983	4,017	4,067	4,152
76	190,00	150,7371	193,79	192,75	187,78	3,983	4,017	4,068	4,152
77	192,50	152,7205	196,29	195,25	190,28	3,983	4,017	4,068	4,153
78	195,00	154,7039	198,80	197,75	192,78	3,984	4,018	4,069	4,153
79	197,50	156,6873	201,30	200,25	195,28	3,984	4,018	4,069	4,154
80	200,00	158,6707	203,80	202,75	197,78	3,984	4,018	4,069	4,154
81	202,50	160,6541	206,30	205,25	200,28	3,984	4,018	4,070	4,155
82	205,00	162,6374	208,80	207,75	202,78	3,984	4,018	4,070	4,156
83	207,50	164,6208	211,30	210,25	205,28	3,984	4,019	4,070	4,156
84	210,00	166,6042	213,80	212,75	207,78	3,984	4,019	4,071	4,157
85	212,50	168,5876	216,30	215,25	210,28	3,985	4,019	4,071	4,157
86	215,00	170,5710	218,80	217,75	212,78	3,985	4,019	4,071	4,158
87	217,50	172,5544	221,30	220,25	215,28	3,985	4,019	4,071	4,158
88	220,00	174,5377	223,80	222,75	217,78	3,985	4,020	4,072	4,159
89	222,50	176,5211	226,30	225,25	220,28	3,985	4,020	4,072	4,159
90	225,00	178,5045	228,80	227,75	222,78	3,985	4,020	4,072	4,160
91	227,50	180,4879	231,30	230,25	225,28	3,985	4,020	4,073	4,160
92	230,00	182,4713	233,80	232,75	227,78	3,985	4,020	4,073	4,161
93	232,50	184,4547	236,31	235,25	230,28	3,986	4,021	4,073	4,161
94	235,00	186,4380	238,81	237,75	232,78	3,986	4,021	4,074	4,162
95	237,50	188,4214	241,31	240,25	235,28	3,986	4,021	4,074	4,162
96	240,00	190,4048	243,81	242,75	237,78	3,986	4,021	4,074	4,163
97	242,50	192,3882	246,31	245,25	240,28	3,986	4,021	4,075	4,163
98	245,00	194,3716	248,81	247,75	242,78	3,986	4,022	4,075	4,164
99	247,50	196,3550	251,31	250,25	245,28	3,986	4,022	4,075	4,164
100	250,00	198,3383	253,81	252,75	247,78	3,986	4,022	4,076	4,165

Table 86 — Geometry external spline, $\alpha = 37{,}5°$, $m = 2{,}5$, fillet root, $S_{v\,max} = 3{,}927$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	15,00	11,9003	17,25	12,76	11,29	3,887	3,863	3,827	3,768
7	17,50	13,8837	19,75	15,18	13,79	3,887	3,862	3,826	3,765
8	20,00	15,8671	22,25	17,62	16,29	3,886	3,861	3,825	3,763
9	22,50	17,8505	24,75	20,07	18,78	3,886	3,861	3,823	3,761
10	25,00	19,8338	27,25	22,54	21,28	3,885	3,860	3,822	3,759
11	27,50	21,8172	29,75	25,01	23,78	3,885	3,859	3,821	3,757
12	30,00	23,8006	32,25	27,48	26,28	3,884	3,858	3,820	3,756
13	32,50	25,7840	34,75	29,97	28,77	3,884	3,858	3,819	3,754
14	35,00	27,7674	37,25	32,45	31,27	3,883	3,857	3,818	3,752
15	37,50	29,7508	39,75	34,93	33,77	3,883	3,857	3,817	3,751
16	40,00	31,7341	42,25	37,42	36,27	3,883	3,856	3,816	3,750
17	42,50	33,7175	44,75	39,91	38,77	3,882	3,856	3,815	3,748
18	45,00	35,7009	47,25	42,40	41,27	3,882	3,855	3,814	3,747
19	47,50	37,6843	49,75	44,89	43,76	3,882	3,854	3,814	3,746
20	50,00	39,6677	52,25	47,39	46,26	3,881	3,854	3,813	3,744
21	52,50	41,6511	54,75	49,88	48,76	3,881	3,854	3,812	3,743
22	55,00	43,6344	57,25	52,37	51,26	3,881	3,853	3,811	3,742
23	57,50	45,6178	59,75	54,87	53,76	3,881	3,853	3,811	3,741
24	60,00	47,6012	62,25	57,36	56,26	3,880	3,852	3,810	3,740
25	62,50	49,5846	64,75	59,86	58,75	3,880	3,852	3,809	3,739
26	65,00	51,5680	67,25	62,35	61,25	3,880	3,851	3,809	3,738
27	67,50	53,5514	69,75	64,85	63,75	3,879	3,851	3,808	3,737
28	70,00	55,5347	72,25	67,35	66,25	3,879	3,851	3,807	3,736
29	72,50	57,5181	74,75	69,84	68,75	3,879	3,850	3,807	3,735
30	75,00	59,5015	77,25	72,34	71,25	3,879	3,850	3,806	3,734
31	77,50	61,4849	79,75	74,84	73,75	3,878	3,849	3,806	3,733
32	80,00	63,4683	82,25	77,33	76,25	3,878	3,849	3,805	3,732
33	82,50	65,4517	84,75	79,83	78,74	3,878	3,849	3,805	3,731
34	85,00	67,4350	87,25	82,33	81,24	3,878	3,848	3,804	3,730
35	87,50	69,4184	89,75	84,83	83,74	3,878	3,848	3,803	3,729
36	90,00	71,4018	92,25	87,32	86,24	3,877	3,848	3,803	3,729
37	92,50	73,3852	94,75	89,82	88,74	3,877	3,847	3,802	3,728
38	95,00	75,3686	97,25	92,32	91,24	3,877	3,847	3,802	3,727
39	97,50	77,3520	99,75	94,82	93,74	3,877	3,847	3,801	3,726
40	100,00	79,3353	102,25	97,32	96,24	3,877	3,846	3,801	3,725
41	102,50	81,3187	104,75	99,81	98,74	3,876	3,846	3,800	3,724
42	105,00	83,3021	107,25	102,31	101,24	3,876	3,846	3,800	3,724
43	107,50	85,2855	109,75	104,81	103,73	3,876	3,845	3,799	3,723
44	110,00	87,2689	112,25	107,31	106,23	3,876	3,845	3,799	3,722
45	112,50	89,2523	114,75	109,81	108,73	3,876	3,845	3,798	3,721
46	115,00	91,2356	117,25	112,31	111,23	3,875	3,844	3,798	3,721
47	117,50	93,2190	119,75	114,81	113,73	3,875	3,844	3,798	3,720
48	120,00	95,2024	122,25	117,30	116,23	3,875	3,844	3,797	3,719
49	122,50	97,1858	124,75	119,80	118,73	3,875	3,844	3,797	3,718
50	125,00	99,1692	127,25	122,30	121,23	3,875	3,843	3,796	3,718
51	127,50	101,1526	129,75	124,80	123,73	3,875	3,843	3,796	3,717
52	130,00	103,1359	132,25	127,30	126,23	3,874	3,843	3,795	3,716
53	132,50	105,1193	134,75	129,80	128,72	3,874	3,842	3,795	3,716
54	135,00	107,1027	137,25	132,30	131,22	3,874	3,842	3,795	3,715
55	137,50	109,0861	139,75	134,80	133,72	3,874	3,842	3,794	3,714
56	140,00	111,0695	142,25	137,30	136,22	3,874	3,842	3,794	3,714
57	142,50	113,0529	144,75	139,80	138,72	3,874	3,841	3,793	3,713
58	145,00	115,0362	147,25	142,30	141,22	3,873	3,841	3,793	3,712
59	147,50	117,0196	149,75	144,79	143,72	3,873	3,841	3,792	3,712
60	150,00	119,0030	152,25	147,29	146,22	3,873	3,841	3,792	3,711
61	152,50	120,9864	154,75	149,79	148,72	3,873	3,840	3,792	3,711
62	155,00	122,9698	157,25	152,29	151,22	3,873	3,840	3,791	3,710
63	157,50	124,9532	159,75	154,79	153,72	3,873	3,840	3,791	3,709
64	160,00	126,9365	162,25	157,29	156,22	3,872	3,840	3,791	3,709
65	162,50	128,9199	164,75	159,79	158,71	3,872	3,839	3,790	3,708
66	165,00	130,9033	167,25	162,29	161,21	3,872	3,839	3,790	3,707
67	167,50	132,8867	169,75	164,79	163,71	3,872	3,839	3,789	3,707
68	170,00	134,8701	172,25	167,29	166,21	3,872	3,839	3,789	3,706
69	172,50	136,8535	174,75	169,79	168,71	3,872	3,838	3,789	3,706
70	175,00	138,8368	177,25	172,29	171,21	3,872	3,838	3,788	3,705
71	177,50	140,8202	179,75	174,79	173,71	3,871	3,838	3,788	3,705
72	180,00	142,8036	182,25	177,29	176,21	3,871	3,838	3,788	3,704
73	182,50	144,7870	184,75	179,79	178,71	3,871	3,838	3,787	3,703
74	185,00	146,7704	187,25	182,29	181,21	3,871	3,837	3,787	3,703
75	187,50	148,7538	189,75	184,78	183,71	3,871	3,837	3,787	3,702
76	190,00	150,7371	192,25	187,28	186,21	3,871	3,837	3,786	3,702
77	192,50	152,7205	194,75	189,78	188,71	3,871	3,837	3,786	3,701
78	195,00	154,7039	197,25	192,28	191,20	3,870	3,836	3,785	3,701
79	197,50	156,6873	199,75	194,78	193,70	3,870	3,836	3,785	3,700
80	200,00	158,6707	202,25	197,28	196,20	3,870	3,836	3,785	3,700
81	202,50	160,6541	204,75	199,78	198,70	3,870	3,836	3,784	3,699
82	205,00	162,6374	207,25	202,28	201,20	3,870	3,836	3,784	3,698
83	207,50	164,6208	209,75	204,78	203,70	3,870	3,835	3,784	3,698
84	210,00	166,6042	212,25	207,28	206,20	3,870	3,835	3,783	3,697
85	212,50	168,5876	214,75	209,78	208,70	3,869	3,835	3,783	3,697
86	215,00	170,5710	217,25	212,28	211,20	3,869	3,835	3,783	3,696
87	217,50	172,5544	219,75	214,78	213,70	3,869	3,835	3,783	3,696
88	220,00	174,5377	222,25	217,28	216,20	3,869	3,834	3,782	3,695
89	222,50	176,5211	224,75	219,78	218,70	3,869	3,834	3,782	3,695
90	225,00	178,5045	227,25	222,28	221,20	3,869	3,834	3,782	3,694
91	227,50	180,4879	229,75	224,78	223,70	3,869	3,834	3,781	3,694
92	230,00	182,4713	232,25	227,28	226,20	3,869	3,834	3,781	3,693
93	232,50	184,4547	234,75	229,78	228,69	3,868	3,833	3,781	3,693
94	235,00	186,4380	237,25	232,28	231,19	3,868	3,833	3,780	3,692
95	237,50	188,4214	239,75	234,78	233,69	3,868	3,833	3,780	3,692
96	240,00	190,4048	242,25	237,28	236,19	3,868	3,833	3,780	3,691
97	242,50	192,3882	244,75	239,78	238,69	3,868	3,833	3,779	3,691
98	245,00	194,3716	247,25	242,28	241,19	3,868	3,832	3,779	3,690
99	247,50	196,3550	249,75	244,78	243,69	3,868	3,832	3,779	3,690
100	250,00	198,3383	252,25	247,28	246,19	3,868	3,832	3,778	3,689

Table 87 — Inspection dimensions internal spline, $\alpha = 37{,}5°$, $m = 2{,}5$, $E_{v\,min} = 3{,}927$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	4,25	8,534	8,588	8,548	8,638	8,570	8,711	8,604	8,827	1,913
7	4,50	9,867	9,924	9,883	9,978	9,906	10,056	9,943	10,180	1,998
8	4,50	12,868	12,918	12,882	12,965	12,903	13,034	12,935	13,147	1,813
9	4,50	15,139	15,184	15,152	15,227	15,171	15,291	15,200	15,396	1,668
10	4,50	17,991	18,034	18,004	18,076	18,022	18,138	18,051	18,241	1,622
11	4,50	20,271	20,312	20,284	20,353	20,301	20,413	20,329	20,513	1,556
12	4,75	22,292	22,335	22,305	22,377	22,324	22,441	22,354	22,546	1,620
13	4,75	24,610	24,652	24,623	24,693	24,642	24,755	24,671	24,857	1,567
14	4,75	27,353	27,394	27,366	27,435	27,384	27,496	27,413	27,598	1,547
15	4,75	29,685	29,725	29,698	29,766	29,716	29,826	29,745	29,926	1,513
16	4,75	32,393	32,433	32,406	32,473	32,425	32,534	32,453	32,634	1,501
17	4,75	34,740	34,778	34,753	34,818	34,771	34,878	34,800	34,978	1,478
18	4,75	37,422	37,461	37,435	37,501	37,454	37,561	37,483	37,660	1,470
19	4,75	39,781	39,819	39,794	39,859	39,813	39,919	39,842	40,018	1,453
20	4,75	42,444	42,482	42,457	42,522	42,476	42,581	42,505	42,681	1,447
21	4,75	44,814	44,851	44,827	44,891	44,846	44,951	44,875	45,050	1,434
22	4,75	47,461	47,498	47,474	47,538	47,493	47,598	47,523	47,697	1,430
23	4,75	49,841	49,878	49,854	49,917	49,873	49,977	49,903	50,076	1,419
24	4,75	52,475	52,512	52,488	52,552	52,507	52,611	52,537	52,711	1,416
25	4,75	54,863	54,899	54,876	54,939	54,896	54,999	54,926	55,099	1,408
26	4,75	57,486	57,523	57,500	57,563	57,519	57,623	57,549	57,723	1,405
27	4,75	59,882	59,918	59,895	59,958	59,915	60,018	59,945	60,118	1,398
28	5,00	61,799	61,836	61,813	61,877	61,833	61,938	61,864	62,040	1,416
29	5,00	64,203	64,240	64,218	64,281	64,238	64,342	64,269	64,443	1,409
30	5,00	66,810	66,847	66,825	66,888	66,845	66,949	66,876	67,051	1,407
31	5,00	69,220	69,256	69,234	69,297	69,255	69,358	69,286	69,461	1,401
32	5,00	71,820	71,856	71,835	71,897	71,855	71,959	71,887	72,061	1,399
33	5,00	74,235	74,270	74,249	74,311	74,270	74,373	74,302	74,476	1,394
34	5,00	76,829	76,864	76,843	76,905	76,864	76,967	76,896	77,070	1,392
35	5,00	79,247	79,283	79,262	79,324	79,283	79,386	79,315	79,489	1,387
36	5,00	81,836	81,871	81,851	81,913	81,872	81,975	81,904	82,078	1,386
37	5,00	84,259	84,294	84,274	84,336	84,295	84,398	84,328	84,501	1,382
38	5,00	86,843	86,878	86,858	86,919	86,879	86,982	86,912	87,085	1,381
39	5,00	89,269	89,304	89,284	89,346	89,306	89,408	89,339	89,512	1,377
40	5,00	91,848	91,883	91,864	91,925	91,885	91,988	91,919	92,092	1,376
41	5,00	94,278	94,313	94,294	94,355	94,315	94,418	94,349	94,522	1,373
42	5,00	96,854	96,888	96,869	96,930	96,891	96,993	96,925	97,098	1,372
43	5,00	99,287	99,321	99,302	99,363	99,324	99,426	99,358	99,531	1,369
44	5,00	101,859	101,893	101,874	101,935	101,896	101,999	101,931	102,104	1,368
45	5,00	104,294	104,329	104,310	104,371	104,332	104,434	104,367	104,540	1,366
46	5,00	106,863	106,897	106,879	106,940	106,901	107,003	106,936	107,109	1,365
47	5,00	109,301	109,335	109,317	109,378	109,340	109,442	109,375	109,547	1,363
48	5,00	111,867	111,901	111,883	111,944	111,906	112,008	111,941	112,114	1,362
49	5,00	114,308	114,342	114,324	114,384	114,347	114,448	114,382	114,555	1,360
50	5,00	116,871	116,905	116,887	116,948	116,910	117,012	116,946	117,118	1,360
51	5,00	119,314	119,347	119,330	119,390	119,353	119,455	119,389	119,562	1,358
52	5,00	121,874	121,908	121,891	121,951	121,914	122,016	121,950	122,123	1,357
53	5,00	124,319	124,353	124,336	124,396	124,359	124,460	124,395	124,568	1,355
54	5,00	126,877	126,911	126,894	126,954	126,918	127,019	126,954	127,127	1,355
55	5,00	129,324	129,358	129,341	129,401	129,365	129,466	129,401	129,574	1,353
56	5,00	131,880	131,914	131,897	131,957	131,921	132,022	131,958	132,131	1,353
57	5,00	134,329	134,362	134,346	134,406	134,370	134,471	134,407	134,580	1,351
58	5,00	136,883	136,917	136,900	136,960	136,924	137,026	136,961	137,134	1,351
59	5,00	139,333	139,367	139,351	139,410	139,375	139,476	139,412	139,585	1,349
60	5,00	141,886	141,919	141,903	141,963	141,928	142,029	141,965	142,138	1,349
61	5,00	144,338	144,371	144,355	144,415	144,380	144,480	144,417	144,590	1,348
62	5,00	146,888	146,921	146,906	146,965	146,931	147,031	146,968	147,141	1,347
63	5,00	149,342	149,375	149,359	149,419	149,384	149,485	149,422	149,595	1,346
64	5,00	151,891	151,924	151,908	151,968	151,933	152,034	151,971	152,144	1,346
65	5,00	154,345	154,378	154,363	154,422	154,388	154,489	154,426	154,599	1,345
66	5,00	156,893	156,926	156,911	156,970	156,936	157,037	156,974	157,147	1,344
67	5,00	159,349	159,382	159,367	159,426	159,392	159,493	159,431	159,604	1,343
68	5,00	161,895	161,928	161,913	161,972	161,938	162,039	161,977	162,150	1,343
69	5,00	164,352	164,385	164,370	164,429	164,396	164,496	164,435	164,608	1,342
70	5,00	166,897	166,930	166,915	166,974	166,941	167,041	166,980	167,153	1,342
71	5,00	169,355	169,388	169,374	169,433	169,399	169,500	169,439	169,612	1,341
72	5,00	171,899	171,931	171,917	171,976	171,943	172,044	171,983	172,156	1,341
73	5,00	174,358	174,391	174,377	174,436	174,403	174,503	174,443	174,616	1,340
74	5,00	176,901	176,933	176,919	176,978	176,945	177,046	176,985	177,159	1,339
75	5,00	179,361	179,393	179,380	179,439	179,406	179,506	179,446	179,619	1,339
76	5,00	181,902	181,935	181,921	181,980	181,948	182,048	181,988	182,161	1,338
77	5,00	184,364	184,396	184,383	184,441	184,409	184,510	184,450	184,623	1,338
78	5,00	186,904	186,936	186,923	186,982	186,950	187,050	186,990	187,164	1,337
79	5,00	189,367	189,399	189,386	189,444	189,412	189,512	189,453	189,626	1,337
80	5,00	191,906	191,938	191,925	191,983	191,952	192,052	191,993	192,166	1,337
81	5,00	194,369	194,401	194,388	194,447	194,415	194,515	194,456	194,630	1,336
82	5,00	196,907	196,939	196,927	196,985	196,954	197,054	196,995	197,168	1,336
83	5,00	199,371	199,403	199,391	199,449	199,418	199,518	199,460	199,633	1,335
84	5,00	201,909	201,940	201,928	201,986	201,956	202,056	201,997	202,171	1,335
85	5,00	204,374	204,405	204,393	204,451	204,421	204,521	204,463	204,636	1,334
86	5,00	206,910	206,942	206,930	206,988	206,957	207,057	206,999	207,173	1,334
87	5,00	209,376	209,407	209,396	209,454	209,423	209,523	209,466	209,639	1,333
88	5,00	211,911	211,943	211,931	211,989	211,959	212,059	212,002	212,175	1,333
89	5,00	214,378	214,409	214,398	214,456	214,426	214,526	214,468	214,642	1,333
90	5,00	216,913	216,944	216,933	216,991	216,961	217,061	217,004	217,177	1,332
91	5,00	219,380	219,411	219,400	219,458	219,428	219,528	219,471	219,644	1,332
92	5,00	221,914	221,945	221,934	221,992	221,962	222,062	222,006	222,179	1,332
93	5,00	224,382	224,413	224,402	224,460	224,431	224,530	224,474	224,647	1,331
94	5,00	226,915	226,946	226,936	226,993	226,964	227,064	227,008	227,181	1,331
95	5,00	229,384	229,415	229,404	229,462	229,433	229,532	229,476	229,650	1,331
96	5,00	231,916	231,948	231,937	231,995	231,966	232,065	232,009	232,183	1,331
97	5,00	234,386	234,417	234,406	234,464	234,435	234,535	234,479	234,652	1,330
98	5,00	236,918	236,949	236,938	236,996	236,967	237,067	237,011	237,185	1,330
99	5,00	239,387	239,418	239,408	239,466	239,437	239,537	239,481	239,655	1,329
100	5,00	241,919	241,950	241,939	241,997	241,969	242,068	242,013	242,187	1,329

Table 88 — Inspection dimensions external spline, $\alpha = 37{,}5°$, $m = 2{,}5$, $S_{v\,max} = 3{,}927$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	6,70	26,613	26,638	26,590	26,632	26,554	26,622	26,495	26,606	0,993
7	6,30	27,723	27,748	27,699	27,741	27,662	27,731	27,602	27,715	1,002
8	6,00	30,131	30,158	30,105	30,150	30,066	30,139	30,001	30,122	1,057
9	6,00	32,265	32,292	32,239	32,284	32,200	32,273	32,134	32,255	1,056
10	6,00	35,204	35,232	35,177	35,224	35,136	35,212	35,068	35,193	1,085
11	6,00	37,411	37,438	37,383	37,430	37,342	37,418	37,273	37,399	1,086
12	5,60	39,299	39,328	39,270	39,319	39,227	39,306	39,155	39,286	1,125
13	5,60	41,553	41,582	41,524	41,573	41,480	41,560	41,407	41,540	1,126
14	5,60	44,333	44,363	44,304	44,353	44,259	44,340	44,184	44,319	1,143
15	5,60	46,622	46,651	46,592	46,642	46,547	46,628	46,471	46,607	1,144
16	5,60	49,361	49,391	49,330	49,381	49,284	49,367	49,207	49,345	1,157
17	5,60	51,675	51,705	51,644	51,695	51,598	51,681	51,520	51,659	1,158
18	5,60	54,383	54,413	54,352	54,403	54,305	54,389	54,226	54,366	1,169
19	5,30	55,975	56,005	55,943	55,995	55,895	55,980	55,814	55,957	1,182
20	5,30	58,656	58,686	58,623	58,676	58,574	58,660	58,493	58,637	1,191
21	5,30	61,006	61,036	60,973	61,026	60,924	61,010	60,842	60,986	1,192
22	5,30	63,668	63,699	63,635	63,688	63,585	63,672	63,502	63,648	1,199
23	5,30	66,032	66,062	65,998	66,051	65,948	66,036	65,865	66,011	1,200
24	5,30	68,679	68,710	68,645	68,698	68,594	68,682	68,510	68,657	1,206
25	5,30	71,054	71,084	71,020	71,073	70,969	71,057	70,884	71,031	1,207
26	5,30	73,688	73,719	73,654	73,707	73,602	73,691	73,516	73,665	1,212
27	5,30	76,072	76,103	76,038	76,091	75,986	76,075	75,899	76,049	1,213
28	5,30	78,696	78,727	78,661	78,715	78,609	78,698	78,522	78,672	1,217
29	5,30	81,088	81,119	81,053	81,107	81,001	81,090	80,913	81,063	1,218
30	5,30	83,703	83,734	83,668	83,722	83,615	83,704	83,526	83,677	1,222
31	5,30	86,102	86,133	86,067	86,121	86,014	86,103	85,925	86,076	1,223
32	5,30	88,709	88,740	88,673	88,728	88,620	88,710	88,530	88,682	1,226
33	5,30	91,115	91,146	91,079	91,133	91,025	91,115	90,935	91,087	1,227
34	5,30	93,715	93,746	93,678	93,733	93,624	93,715	93,533	93,687	1,230
35	5,30	96,126	96,157	96,089	96,144	96,035	96,125	95,943	96,097	1,231
36	5,30	98,720	98,751	98,683	98,738	98,628	98,719	98,536	98,690	1,234
37	5,30	101,135	101,167	101,099	101,153	101,043	101,135	100,951	101,106	1,234
38	5,30	103,724	103,755	103,687	103,742	103,631	103,723	103,539	103,693	1,237
39	5,30	106,144	106,175	106,107	106,162	106,051	106,143	105,958	106,113	1,237
40	5,30	108,728	108,759	108,691	108,745	108,634	108,726	108,541	108,696	1,240
41	5,30	111,152	111,183	111,114	111,169	111,058	111,150	110,964	111,120	1,240
42	5,30	113,732	113,763	113,694	113,749	113,637	113,729	113,542	113,699	1,242
43	5,30	116,159	116,190	116,121	116,176	116,064	116,156	115,969	116,126	1,243
44	5,30	118,735	118,766	118,697	118,752	118,639	118,732	118,544	118,701	1,245
45	5,30	121,166	121,197	121,127	121,183	121,070	121,162	120,974	121,131	1,245
46	5,30	123,738	123,769	123,699	123,755	123,641	123,734	123,545	123,703	1,247
47	5,30	126,172	126,203	126,133	126,188	126,075	126,168	125,978	126,136	1,248
48	5,30	128,741	128,772	128,702	128,757	128,643	128,736	128,546	128,704	1,249
49	5,30	131,177	131,208	131,138	131,193	131,080	131,173	130,982	131,140	1,250
50	5,30	133,743	133,774	133,704	133,759	133,645	133,738	133,547	133,706	1,251
51	5,30	136,182	136,213	136,143	136,198	136,084	136,177	135,985	136,144	1,252
52	5,30	138,745	138,776	138,706	138,761	138,647	138,740	138,548	138,707	1,253
53	5,30	141,187	141,218	141,147	141,202	141,088	141,181	140,988	141,148	1,253
54	5,30	143,747	143,778	143,708	143,763	143,648	143,741	143,548	143,708	1,255
55	5,30	146,191	146,222	146,151	146,206	146,091	146,185	145,991	146,151	1,255
56	5,30	148,749	148,780	148,709	148,765	148,649	148,743	148,549	148,709	1,256
57	5,30	151,195	151,226	151,155	151,210	151,094	151,188	150,994	151,154	1,257
58	5,30	153,751	153,782	153,711	153,766	153,650	153,744	153,549	153,710	1,258
59	5,30	156,199	156,229	156,158	156,214	156,097	156,191	155,996	156,157	1,258
60	5,30	158,753	158,784	158,712	158,768	158,651	158,745	158,549	158,710	1,259
61	5,30	161,202	161,233	161,161	161,217	161,100	161,194	160,998	161,159	1,259
62	5,30	163,755	163,785	163,714	163,769	163,652	163,746	163,549	163,711	1,260
63	5,30	166,205	166,236	166,164	166,220	166,102	166,197	166,000	166,161	1,261
64	5,30	168,756	168,787	168,715	168,770	168,653	168,747	168,550	168,711	1,262
65	5,30	171,208	171,239	171,167	171,222	171,105	171,199	171,001	171,163	1,262
66	5,30	173,757	173,788	173,716	173,771	173,654	173,748	173,550	173,712	1,263
67	5,30	176,211	176,242	176,169	176,225	176,107	176,201	176,003	176,165	1,263
68	5,30	178,759	178,789	178,717	178,772	178,654	178,749	178,550	178,712	1,264
69	5,30	181,214	181,244	181,172	181,227	181,109	181,203	181,004	181,167	1,264
70	5,30	183,760	183,790	183,718	183,773	183,655	183,749	183,549	183,712	1,265
71	5,30	186,216	186,247	186,174	186,229	186,111	186,205	186,005	186,168	1,265
72	5,30	188,761	188,791	188,719	188,774	188,655	188,750	188,549	188,712	1,266
73	5,30	191,218	191,249	191,176	191,231	191,112	191,207	191,006	191,169	1,266
74	5,30	193,762	193,792	193,719	193,775	193,656	193,750	193,549	193,713	1,267
75	5,30	196,221	196,251	196,178	196,233	196,114	196,209	196,007	196,171	1,267
76	5,30	198,763	198,793	198,720	198,776	198,656	198,751	198,549	198,713	1,268
77	5,30	201,223	201,253	201,180	201,235	201,115	201,210	201,008	201,172	1,268
78	5,30	203,764	203,794	203,721	203,776	203,656	203,751	203,549	203,713	1,269
79	5,30	206,225	206,255	206,181	206,237	206,117	206,212	206,009	206,173	1,269
80	5,30	208,765	208,795	208,721	208,777	208,657	208,751	208,548	208,713	1,269
81	5,30	211,226	211,257	211,183	211,238	211,118	211,213	211,009	211,174	1,270
82	5,30	213,766	213,796	213,722	213,777	213,657	213,752	213,548	213,712	1,270
83	5,30	216,228	216,258	216,185	216,240	216,119	216,214	216,010	216,175	1,270
84	5,30	218,766	218,796	218,723	218,778	218,657	218,752	218,548	218,712	1,271
85	5,30	221,230	221,260	221,186	221,241	221,120	221,215	221,011	221,175	1,271
86	5,30	223,767	223,797	223,723	223,778	223,657	223,752	223,547	223,712	1,272
87	5,30	226,231	226,261	226,187	226,243	226,121	226,216	226,011	226,176	1,272
88	5,30	228,768	228,798	228,724	228,779	228,657	228,752	228,547	228,712	1,272
89	5,30	231,233	231,263	231,189	231,244	231,122	231,217	231,011	231,177	1,273
90	5,30	233,768	233,798	233,724	233,779	233,657	233,752	233,546	233,712	1,273
91	5,30	236,234	236,264	236,190	236,245	236,123	236,218	236,012	236,177	1,273
92	5,30	238,769	238,799	238,724	238,780	238,657	238,753	238,546	238,711	1,274
93	5,30	241,236	241,265	241,191	241,246	241,124	241,219	241,012	241,178	1,274
94	5,30	243,769	243,799	243,725	243,780	243,657	243,753	243,545	243,711	1,274
95	5,30	246,237	246,266	246,192	246,247	246,125	246,220	246,012	246,178	1,274
96	5,30	248,770	248,800	248,725	248,780	248,657	248,753	248,545	248,711	1,275
97	5,30	251,238	251,268	251,193	251,248	251,125	251,220	251,012	251,178	1,275
98	5,30	253,770	253,800	253,725	253,780	253,657	253,753	253,544	253,710	1,275
99	5,30	256,239	256,269	256,194	256,249	256,126	256,221	256,012	256,179	1,276
100	5,30	258,771	258,800	258,726	258,781	258,657	258,753	258,544	258,710	1,276

5.23 37,5° pressure angle, module 3

Table 89 — Geometry internal spline, $\alpha = 37{,}5°$, $m = 3$, fillet root, $E_{v\,min} = 4{,}712$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	18,00	14,2804	22,42	21,30	15,92	4,754	4,780	4,818	4,881
7	21,00	16,6604	25,42	24,30	18,81	4,755	4,781	4,819	4,884
8	24,00	19,0405	28,43	27,30	21,74	4,756	4,782	4,821	4,886
9	27,00	21,4205	31,43	30,30	24,69	4,756	4,783	4,822	4,889
10	30,00	23,8006	34,43	33,30	27,64	4,757	4,783	4,824	4,891
11	33,00	26,1807	37,44	36,30	30,61	4,757	4,784	4,825	4,893
12	36,00	28,5607	40,44	39,30	33,58	4,758	4,785	4,826	4,894
13	39,00	30,9408	43,44	42,30	36,56	4,758	4,786	4,827	4,896
14	42,00	33,3208	46,44	45,30	39,54	4,758	4,786	4,828	4,898
15	45,00	35,7009	49,44	48,30	42,52	4,759	4,787	4,829	4,899
16	48,00	38,0810	52,45	51,30	45,51	4,759	4,788	4,830	4,901
17	51,00	40,4610	55,45	54,30	48,49	4,760	4,788	4,831	4,902
18	54,00	42,8411	58,45	57,30	51,48	4,760	4,789	4,832	4,904
19	57,00	45,2211	61,45	60,30	54,47	4,760	4,789	4,833	4,905
20	60,00	47,6012	64,45	63,30	57,46	4,761	4,790	4,833	4,906
21	63,00	49,9813	67,45	66,30	60,45	4,761	4,790	4,834	4,908
22	66,00	52,3613	70,46	69,30	63,45	4,761	4,791	4,835	4,909
23	69,00	54,7414	73,46	72,30	66,44	4,762	4,791	4,836	4,910
24	72,00	57,1214	76,46	75,30	69,43	4,762	4,792	4,837	4,911
25	75,00	59,5015	79,46	78,30	72,43	4,762	4,792	4,837	4,912
26	78,00	61,8816	82,46	81,30	75,42	4,762	4,793	4,838	4,913
27	81,00	64,2616	85,46	84,30	78,42	4,763	4,793	4,839	4,915
28	84,00	66,6417	88,47	87,30	81,41	4,763	4,793	4,839	4,916
29	87,00	69,0217	91,47	90,30	84,41	4,763	4,794	4,840	4,917
30	90,00	71,4018	94,47	93,30	87,41	4,763	4,794	4,841	4,918
31	93,00	73,7819	97,47	96,30	90,40	4,764	4,795	4,841	4,919
32	96,00	76,1619	100,47	99,30	93,40	4,764	4,795	4,842	4,920
33	99,00	78,5420	103,47	102,30	96,40	4,764	4,795	4,842	4,921
34	102,00	80,9220	106,47	105,30	99,39	4,764	4,796	4,843	4,922
35	105,00	83,3021	109,47	108,30	102,39	4,765	4,796	4,844	4,923
36	108,00	85,6822	112,48	111,30	105,39	4,765	4,797	4,844	4,924
37	111,00	88,0622	115,48	114,30	108,39	4,765	4,797	4,845	4,924
38	114,00	90,4423	118,48	117,30	111,38	4,765	4,797	4,845	4,925
39	117,00	92,8223	121,48	120,30	114,38	4,766	4,798	4,846	4,926
40	120,00	95,2024	124,48	123,30	117,38	4,766	4,798	4,846	4,927
41	123,00	97,5825	127,48	126,30	120,38	4,766	4,798	4,847	4,928
42	126,00	99,9625	130,48	129,30	123,38	4,766	4,799	4,847	4,929
43	129,00	102,3426	133,48	132,30	126,37	4,766	4,799	4,848	4,930
44	132,00	104,7226	136,48	135,30	129,37	4,767	4,799	4,848	4,930
45	135,00	107,1027	139,49	138,30	132,37	4,767	4,800	4,849	4,931
46	138,00	109,4828	142,49	141,30	135,37	4,767	4,800	4,849	4,932
47	141,00	111,8628	145,49	144,30	138,37	4,767	4,800	4,850	4,933
48	144,00	114,2429	148,49	147,30	141,37	4,767	4,801	4,850	4,934
49	147,00	116,6229	151,49	150,30	144,36	4,768	4,801	4,851	4,934
50	150,00	119,0030	154,49	153,30	147,36	4,768	4,801	4,851	4,935
51	153,00	121,3831	157,49	156,30	150,36	4,768	4,802	4,852	4,936
52	156,00	123,7631	160,49	159,30	153,36	4,768	4,802	4,852	4,937
53	159,00	126,1432	163,49	162,30	156,36	4,768	4,802	4,853	4,937
54	162,00	128,5232	166,49	165,30	159,36	4,769	4,802	4,853	4,938
55	165,00	130,9033	169,50	168,30	162,36	4,769	4,803	4,854	4,939
56	168,00	133,2834	172,50	171,30	165,36	4,769	4,803	4,854	4,940
57	171,00	135,6634	175,50	174,30	168,36	4,769	4,803	4,855	4,940
58	174,00	138,0435	178,50	177,30	171,35	4,769	4,804	4,855	4,941
59	177,00	140,4235	181,50	180,30	174,35	4,769	4,804	4,856	4,942
60	180,00	142,8036	184,50	183,30	177,35	4,770	4,804	4,856	4,942
61	183,00	145,1837	187,50	186,30	180,35	4,770	4,804	4,856	4,943
62	186,00	147,5637	190,50	189,30	183,35	4,770	4,805	4,857	4,944
63	189,00	149,9438	193,50	192,30	186,35	4,770	4,805	4,857	4,944
64	192,00	152,3238	196,50	195,30	189,35	4,770	4,805	4,858	4,945
65	195,00	154,7039	199,50	198,30	192,35	4,770	4,805	4,858	4,946
66	198,00	157,0840	202,51	201,30	195,35	4,771	4,806	4,858	4,946
67	201,00	159,4640	205,51	204,30	198,35	4,771	4,806	4,859	4,947
68	204,00	161,8441	208,51	207,30	201,35	4,771	4,806	4,859	4,948
69	207,00	164,2241	211,51	210,30	204,35	4,771	4,806	4,860	4,948
70	210,00	166,6042	214,51	213,30	207,34	4,771	4,807	4,860	4,949
71	213,00	168,9843	217,51	216,30	210,34	4,771	4,807	4,860	4,949
72	216,00	171,3643	220,51	219,30	213,34	4,772	4,807	4,861	4,950
73	219,00	173,7444	223,51	222,30	216,34	4,772	4,807	4,861	4,951
74	222,00	176,1244	226,51	225,30	219,34	4,772	4,808	4,862	4,951
75	225,00	178,5045	229,51	228,30	222,34	4,772	4,808	4,862	4,952
76	228,00	180,8846	232,51	231,30	225,34	4,772	4,808	4,862	4,953
77	231,00	183,2646	235,51	234,30	228,34	4,772	4,808	4,863	4,953
78	234,00	185,6447	238,52	237,30	231,34	4,772	4,809	4,863	4,954
79	237,00	188,0247	241,52	240,30	234,34	4,773	4,809	4,863	4,954
80	240,00	190,4048	244,52	243,30	237,34	4,773	4,809	4,864	4,955
81	243,00	192,7849	247,52	246,30	240,34	4,773	4,809	4,864	4,956
82	246,00	195,1649	250,52	249,30	243,34	4,773	4,810	4,865	4,956
83	249,00	197,5450	253,52	252,30	246,34	4,773	4,810	4,865	4,957
84	252,00	199,9250	256,52	255,30	249,34	4,773	4,810	4,865	4,957
85	255,00	202,3051	259,52	258,30	252,34	4,773	4,810	4,866	4,958
86	258,00	204,6852	262,52	261,30	255,34	4,774	4,811	4,866	4,958
87	261,00	207,0652	265,52	264,30	258,34	4,774	4,811	4,866	4,959
88	264,00	209,4453	268,52	267,30	261,34	4,774	4,811	4,867	4,959
89	267,00	211,8253	271,52	270,30	264,34	4,774	4,811	4,867	4,960
90	270,00	214,2054	274,52	273,30	267,33	4,774	4,811	4,867	4,961
91	273,00	216,5855	277,52	276,30	270,33	4,774	4,812	4,868	4,961
92	276,00	218,9655	280,53	279,30	273,33	4,774	4,812	4,868	4,962
93	279,00	221,3456	283,53	282,30	276,33	4,775	4,812	4,868	4,962
94	282,00	223,7256	286,53	285,30	279,33	4,775	4,812	4,869	4,963
95	285,00	226,1057	289,53	288,30	282,33	4,775	4,813	4,869	4,963
96	288,00	228,4858	292,53	291,30	285,33	4,775	4,813	4,869	4,964
97	291,00	230,8658	295,53	294,30	288,33	4,775	4,813	4,870	4,964
98	294,00	233,2459	298,53	297,30	291,33	4,775	4,813	4,870	4,965
99	297,00	235,6259	301,53	300,30	294,33	4,775	4,813	4,870	4,965
100	300,00	238,0060	304,53	303,30	297,33	4,775	4,814	4,871	4,966

Table 90 — Geometry external spline, $\alpha = 37{,}5°$, $m = 3$, fillet root, $S_{V\,max} = 4{,}712$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	18,00	14,2804	20,70	15,32	13,58	4,670	4,644	4,606	4,543
7	21,00	16,6604	23,70	18,21	16,58	4,669	4,643	4,605	4,540
8	24,00	19,0405	26,70	21,14	19,57	4,668	4,642	4,603	4,538
9	27,00	21,4205	29,70	24,09	22,57	4,668	4,641	4,602	4,535
10	30,00	23,8006	32,70	27,04	25,57	4,667	4,641	4,600	4,533
11	33,00	26,1807	35,70	30,01	28,56	4,667	4,640	4,599	4,531
12	36,00	28,5607	38,70	32,98	31,56	4,666	4,639	4,598	4,530
13	39,00	30,9408	41,70	35,96	34,56	4,666	4,638	4,597	4,528
14	42,00	33,3208	44,70	38,94	37,56	4,666	4,638	4,596	4,526
15	45,00	35,7009	47,70	41,92	40,56	4,665	4,637	4,595	4,525
16	48,00	38,0810	50,70	44,91	43,55	4,665	4,636	4,594	4,523
17	51,00	40,4610	53,70	47,89	46,55	4,664	4,636	4,593	4,522
18	54,00	42,8411	56,70	50,88	49,55	4,664	4,635	4,592	4,520
19	57,00	45,2211	59,70	53,87	52,55	4,664	4,635	4,591	4,519
20	60,00	47,6012	62,70	56,86	55,55	4,663	4,634	4,591	4,518
21	63,00	49,9813	65,70	59,85	58,55	4,663	4,634	4,590	4,516
22	66,00	52,3613	68,70	62,85	61,54	4,663	4,633	4,589	4,515
23	69,00	54,7414	71,70	65,84	64,54	4,662	4,633	4,588	4,514
24	72,00	57,1214	74,70	68,83	67,54	4,662	4,632	4,587	4,513
25	75,00	59,5015	77,70	71,83	70,54	4,662	4,632	4,587	4,512
26	78,00	61,8816	80,70	74,82	73,54	4,662	4,631	4,586	4,511
27	81,00	64,2616	83,70	77,82	76,54	4,661	4,631	4,585	4,509
28	84,00	66,6417	86,70	80,81	79,53	4,661	4,631	4,585	4,508
29	87,00	69,0217	89,70	83,81	82,53	4,661	4,630	4,584	4,507
30	90,00	71,4018	92,70	86,81	85,53	4,661	4,630	4,583	4,506
31	93,00	73,7819	95,70	89,80	88,53	4,660	4,629	4,583	4,505
32	96,00	76,1619	98,70	92,80	91,53	4,660	4,629	4,582	4,504
33	99,00	78,5420	101,70	95,80	94,53	4,660	4,629	4,582	4,503
34	102,00	80,9220	104,70	98,79	97,53	4,660	4,628	4,581	4,502
35	105,00	83,3021	107,70	101,79	100,53	4,659	4,628	4,580	4,501
36	108,00	85,6822	110,70	104,79	103,52	4,659	4,627	4,580	4,500
37	111,00	88,0622	113,70	107,79	106,52	4,659	4,627	4,579	4,500
38	114,00	90,4423	116,70	110,78	109,52	4,659	4,627	4,579	4,499
39	117,00	92,8223	119,70	113,78	112,52	4,658	4,626	4,578	4,498
40	120,00	95,2024	122,70	116,78	115,52	4,658	4,626	4,578	4,497
41	123,00	97,5825	125,70	119,78	118,52	4,658	4,626	4,577	4,496
42	126,00	99,9625	128,70	122,78	121,52	4,658	4,625	4,577	4,495
43	129,00	102,3426	131,70	125,77	124,52	4,658	4,625	4,576	4,494
44	132,00	104,7226	134,70	128,77	127,52	4,657	4,625	4,576	4,494
45	135,00	107,1027	137,70	131,77	130,51	4,657	4,624	4,575	4,493
46	138,00	109,4828	140,70	134,77	133,51	4,657	4,624	4,575	4,492
47	141,00	111,8628	143,70	137,77	136,51	4,657	4,624	4,574	4,491
48	144,00	114,2429	146,70	140,77	139,51	4,657	4,623	4,574	4,490
49	147,00	116,6229	149,70	143,76	142,51	4,656	4,623	4,573	4,490
50	150,00	119,0030	152,70	146,76	145,51	4,656	4,623	4,573	4,489
51	153,00	121,3831	155,70	149,76	148,51	4,656	4,622	4,572	4,488
52	156,00	123,7631	158,70	152,76	151,51	4,656	4,622	4,572	4,487
53	159,00	126,1432	161,70	155,76	154,51	4,656	4,622	4,571	4,487
54	162,00	128,5232	164,70	158,76	157,51	4,655	4,622	4,571	4,486
55	165,00	130,9033	167,70	161,76	160,50	4,655	4,621	4,570	4,485
56	168,00	133,2834	170,70	164,76	163,50	4,655	4,621	4,570	4,484
57	171,00	135,6634	173,70	167,76	166,50	4,655	4,621	4,569	4,484
58	174,00	138,0435	176,70	170,75	169,50	4,655	4,620	4,569	4,483
59	177,00	140,4235	179,70	173,75	172,50	4,655	4,620	4,568	4,482
60	180,00	142,8036	182,70	176,75	175,50	4,654	4,620	4,568	4,482
61	183,00	145,1837	185,70	179,75	178,50	4,654	4,620	4,568	4,481
62	186,00	147,5637	188,70	182,75	181,50	4,654	4,619	4,567	4,480
63	189,00	149,9438	191,70	185,75	184,50	4,654	4,619	4,567	4,480
64	192,00	152,3238	194,70	188,75	187,50	4,654	4,619	4,566	4,479
65	195,00	154,7039	197,70	191,75	190,50	4,654	4,619	4,566	4,478
66	198,00	157,0840	200,70	194,75	193,49	4,653	4,618	4,566	4,478
67	201,00	159,4640	203,70	197,75	196,49	4,653	4,618	4,565	4,477
68	204,00	161,8441	206,70	200,75	199,49	4,653	4,618	4,565	4,476
69	207,00	164,2241	209,70	203,75	202,49	4,653	4,618	4,564	4,476
70	210,00	166,6042	212,70	206,74	205,49	4,653	4,617	4,564	4,475
71	213,00	168,9843	215,70	209,74	208,49	4,653	4,617	4,564	4,475
72	216,00	171,3643	218,70	212,74	211,49	4,652	4,617	4,563	4,474
73	219,00	173,7444	221,70	215,74	214,49	4,652	4,617	4,563	4,473
74	222,00	176,1244	224,70	218,74	217,49	4,652	4,616	4,562	4,473
75	225,00	178,5045	227,70	221,74	220,49	4,652	4,616	4,562	4,472
76	228,00	180,8846	230,70	224,74	223,49	4,652	4,616	4,562	4,471
77	231,00	183,2646	233,70	227,74	226,49	4,652	4,616	4,561	4,471
78	234,00	185,6447	236,70	230,74	229,48	4,652	4,615	4,561	4,470
79	237,00	188,0247	239,70	233,74	232,48	4,651	4,615	4,561	4,470
80	240,00	190,4048	242,70	236,74	235,48	4,651	4,615	4,560	4,469
81	243,00	192,7849	245,70	239,74	238,48	4,651	4,615	4,560	4,468
82	246,00	195,1649	248,70	242,74	241,48	4,651	4,614	4,559	4,468
83	249,00	197,5450	251,70	245,74	244,48	4,651	4,614	4,559	4,467
84	252,00	199,9250	254,70	248,74	247,48	4,651	4,614	4,559	4,467
85	255,00	202,3051	257,70	251,74	250,48	4,651	4,614	4,558	4,466
86	258,00	204,6852	260,70	254,74	253,48	4,650	4,613	4,558	4,466
87	261,00	207,0652	263,70	257,74	256,48	4,650	4,613	4,558	4,465
88	264,00	209,4453	266,70	260,74	259,48	4,650	4,613	4,557	4,465
89	267,00	211,8253	269,70	263,74	262,48	4,650	4,613	4,557	4,464
90	270,00	214,2054	272,70	266,73	265,48	4,650	4,613	4,557	4,463
91	273,00	216,5855	275,70	269,73	268,48	4,650	4,612	4,556	4,463
92	276,00	218,9655	278,70	272,73	271,47	4,650	4,612	4,556	4,462
93	279,00	221,3456	281,70	275,73	274,47	4,649	4,612	4,556	4,462
94	282,00	223,7256	284,70	278,73	277,47	4,649	4,612	4,555	4,461
95	285,00	226,1057	287,70	281,73	280,47	4,649	4,611	4,555	4,461
96	288,00	228,4858	290,70	284,73	283,47	4,649	4,611	4,555	4,460
97	291,00	230,8658	293,70	287,73	286,47	4,649	4,611	4,554	4,460
98	294,00	233,2459	296,70	290,73	289,47	4,649	4,611	4,554	4,459
99	297,00	235,6259	299,70	293,73	292,47	4,649	4,611	4,554	4,459
100	300,00	238,0060	302,70	296,73	295,47	4,649	4,610	4,553	4,458

Table 91 — Inspection dimensions internal spline, $\alpha = 37{,}5°$, $m = 3$, $E_{v\,min} = 4{,}712$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	5,30	9,379	9,467	9,403	9,543	9,438	9,650	9,491	9,811	2,426
7	5,30	12,210	12,266	12,226	12,318	12,248	12,394	12,283	12,518	1,882
8	5,30	15,777	15,827	15,791	15,875	15,812	15,946	15,844	16,061	1,750
9	5,30	18,480	18,526	18,494	18,571	18,513	18,637	18,543	18,745	1,628
10	5,60	20,948	20,997	20,963	21,044	20,983	21,115	21,016	21,231	1,718
11	5,60	23,708	23,754	23,722	23,799	23,742	23,866	23,773	23,977	1,629
12	5,60	27,055	27,100	27,069	27,144	27,088	27,210	27,119	27,320	1,595
13	5,60	29,830	29,873	29,843	29,916	29,862	29,981	29,893	30,088	1,547
14	5,60	33,118	33,160	33,131	33,204	33,151	33,268	33,181	33,375	1,529
15	5,60	35,912	35,954	35,925	35,996	35,945	36,060	35,975	36,165	1,498
16	5,60	39,160	39,201	39,173	39,244	39,193	39,307	39,223	39,413	1,488
17	5,60	41,972	42,013	41,986	42,055	42,005	42,118	42,036	42,223	1,466
18	5,60	45,190	45,230	45,204	45,273	45,223	45,336	45,254	45,441	1,459
19	5,60	48,018	48,058	48,032	48,100	48,052	48,163	48,083	48,268	1,443
20	6,00	50,068	50,109	50,083	50,153	50,103	50,218	50,135	50,327	1,484
21	6,00	52,919	52,959	52,933	53,002	52,953	53,067	52,985	53,175	1,468
22	6,00	56,097	56,138	56,112	56,181	56,132	56,246	56,165	56,354	1,461
23	6,00	58,958	58,997	58,972	59,041	58,993	59,106	59,025	59,213	1,448
24	6,00	62,120	62,160	62,135	62,203	62,156	62,268	62,189	62,376	1,443
25	6,00	64,990	65,029	65,005	65,073	65,026	65,137	65,058	65,245	1,433
26	6,00	68,139	68,178	68,154	68,222	68,175	68,287	68,208	68,395	1,429
27	6,00	71,017	71,056	71,032	71,099	71,053	71,164	71,086	71,272	1,421
28	6,00	74,155	74,194	74,170	74,237	74,192	74,302	74,225	74,411	1,418
29	6,00	77,040	77,078	77,055	77,122	77,077	77,187	77,110	77,296	1,411
30	6,00	80,169	80,207	80,184	80,250	80,206	80,316	80,239	80,425	1,408
31	6,00	83,060	83,098	83,075	83,142	83,097	83,207	83,131	83,316	1,402
32	6,00	86,180	86,218	86,196	86,262	86,218	86,327	86,252	86,437	1,400
33	6,00	89,077	89,115	89,093	89,159	89,115	89,225	89,150	89,334	1,395
34	6,00	92,190	92,228	92,206	92,272	92,228	92,338	92,263	92,447	1,393
35	6,00	95,093	95,130	95,109	95,174	95,131	95,240	95,166	95,350	1,389
36	6,00	98,199	98,236	98,215	98,280	98,238	98,347	98,273	98,457	1,387
37	6,00	101,106	101,144	101,122	101,188	101,145	101,254	101,181	101,364	1,383
38	6,00	104,207	104,244	104,223	104,288	104,246	104,355	104,282	104,465	1,382
39	6,00	107,119	107,155	107,135	107,200	107,158	107,267	107,194	107,377	1,378
40	6,00	110,214	110,251	110,230	110,295	110,254	110,362	110,290	110,473	1,377
41	6,00	113,130	113,166	113,146	113,211	113,170	113,278	113,206	113,389	1,374
42	6,00	116,220	116,257	116,237	116,302	116,261	116,369	116,297	116,480	1,373
43	6,00	119,140	119,176	119,156	119,221	119,180	119,288	119,217	119,400	1,370
44	6,00	122,226	122,262	122,243	122,307	122,267	122,375	122,304	122,487	1,369
45	6,00	125,149	125,185	125,166	125,230	125,190	125,298	125,227	125,410	1,367
46	6,00	128,231	128,267	128,248	128,313	128,273	128,380	128,310	128,493	1,366
47	6,00	131,157	131,193	131,174	131,238	131,199	131,306	131,236	131,419	1,364
48	6,00	134,236	134,272	134,253	134,317	134,278	134,385	134,316	134,499	1,363
49	6,00	137,165	137,201	137,182	137,246	137,207	137,314	137,245	137,428	1,361
50	6,00	140,240	140,276	140,258	140,322	140,283	140,390	140,321	140,504	1,360
51	6,00	143,172	143,207	143,189	143,253	143,214	143,322	143,253	143,436	1,358
52	6,00	146,245	146,280	146,262	146,326	146,288	146,395	146,326	146,509	1,358
53	6,00	149,178	149,214	149,196	149,260	149,222	149,329	149,260	149,443	1,356
54	6,00	152,248	152,284	152,266	152,330	152,292	152,399	152,331	152,514	1,355
55	6,00	155,184	155,220	155,203	155,266	155,228	155,335	155,268	155,450	1,354
56	6,00	158,252	158,287	158,270	158,333	158,296	158,403	158,336	158,518	1,353
57	6,00	161,190	161,225	161,208	161,272	161,234	161,341	161,274	161,457	1,352
58	6,00	164,255	164,290	164,274	164,337	164,300	164,407	164,340	164,523	1,351
59	6,00	167,195	167,230	167,214	167,277	167,240	167,347	167,280	167,463	1,350
60	6,00	170,258	170,293	170,277	170,340	170,303	170,410	170,344	170,527	1,350
61	6,00	173,200	173,235	173,219	173,282	173,246	173,352	173,286	173,469	1,348
62	6,00	176,261	176,296	176,280	176,343	176,307	176,413	176,348	176,531	1,348
63	6,00	179,205	179,240	179,224	179,287	179,251	179,357	179,292	179,475	1,347
64	6,00	182,264	182,299	182,283	182,346	182,310	182,416	182,351	182,534	1,346
65	6,00	185,210	185,244	185,229	185,291	185,256	185,362	185,297	185,480	1,345
66	6,00	188,267	188,301	188,286	188,348	188,313	188,419	188,355	188,538	1,345
67	6,00	191,214	191,248	191,233	191,296	191,261	191,367	191,302	191,485	1,344
68	6,00	194,269	194,303	194,289	194,351	194,316	194,422	194,358	194,541	1,344
69	6,00	197,218	197,252	197,237	197,300	197,265	197,371	197,307	197,490	1,343
70	6,00	200,272	200,306	200,291	200,353	200,319	200,425	200,362	200,544	1,342
71	6,00	203,221	203,255	203,241	203,303	203,269	203,375	203,312	203,495	1,341
72	6,00	206,274	206,308	206,294	206,356	206,322	206,428	206,365	206,547	1,341
73	6,00	209,225	209,259	209,245	209,307	209,273	209,379	209,316	209,499	1,340
74	6,00	212,276	212,310	212,296	212,358	212,324	212,430	212,368	212,550	1,340
75	6,00	215,228	215,262	215,249	215,310	215,277	215,383	215,321	215,503	1,339
76	6,00	218,278	218,312	218,298	218,360	218,327	218,433	218,371	218,553	1,339
77	6,00	221,232	221,265	221,252	221,314	221,281	221,386	221,325	221,507	1,338
78	6,00	224,280	224,313	224,300	224,362	224,329	224,435	224,373	224,556	1,338
79	6,00	227,235	227,268	227,255	227,317	227,284	227,390	227,329	227,511	1,337
80	6,00	230,282	230,315	230,302	230,364	230,332	230,437	230,376	230,559	1,337
81	6,00	233,238	233,271	233,258	233,320	233,288	233,393	233,332	233,515	1,336
82	6,00	236,283	236,317	236,304	236,366	236,334	236,439	236,379	236,562	1,336
83	6,00	239,240	239,274	239,261	239,323	239,291	239,396	239,336	239,519	1,335
84	6,00	242,285	242,318	242,306	242,368	242,336	242,441	242,381	242,564	1,335
85	6,00	245,243	245,276	245,264	245,326	245,294	245,399	245,340	245,522	1,335
86	6,00	248,287	248,320	248,308	248,369	248,338	248,443	248,384	248,567	1,334
87	6,00	251,246	251,279	251,267	251,328	251,297	251,402	251,343	251,526	1,334
88	6,00	254,288	254,321	254,310	254,371	254,340	254,445	254,386	254,569	1,334
89	6,00	257,248	257,281	257,270	257,331	257,300	257,405	257,346	257,529	1,333
90	6,00	260,290	260,323	260,312	260,373	260,342	260,447	260,389	260,571	1,333
91	6,00	263,251	263,283	263,272	263,333	263,303	263,408	263,350	263,532	1,332
92	6,00	266,291	266,324	266,313	266,374	266,344	266,449	266,391	266,574	1,332
93	6,00	269,253	269,286	269,275	269,336	269,306	269,411	269,353	269,536	1,332
94	6,00	272,293	272,325	272,315	272,376	272,346	272,451	272,393	272,576	1,331
95	6,00	275,255	275,288	275,277	275,338	275,308	275,413	275,356	275,539	1,331
96	6,00	278,294	278,327	278,316	278,377	278,348	278,453	278,395	278,578	1,331
97	6,00	281,257	281,290	281,280	281,340	281,311	281,416	281,359	281,542	1,330
98	6,00	284,296	284,328	284,318	284,378	284,349	284,454	284,397	284,580	1,330
99	6,00	287,259	287,292	287,282	287,342	287,313	287,418	287,362	287,545	1,330
100	6,00	290,297	290,329	290,319	290,380	290,351	290,456	290,400	290,583	1,330

Table 92 — Inspection dimensions external spline, $\alpha = 37{,}5°$, $m = 3$, $S_{V\,max} = 4{,}712$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	8,00	31,851	31,878	31,826	31,871	31,788	31,860	31,725	31,844	0,993
7	7,50	33,138	33,165	33,112	33,157	33,073	33,146	33,008	33,129	1,003
8	7,50	36,859	36,888	36,832	36,880	36,791	36,868	36,723	36,849	1,046
9	7,10	38,491	38,520	38,464	38,512	38,422	38,500	38,352	38,481	1,059
10	7,10	42,015	42,044	41,986	42,036	41,942	42,023	41,869	42,003	1,088
11	7,10	44,663	44,692	44,633	44,683	44,589	44,670	44,515	44,650	1,089
12	6,70	47,117	47,148	47,086	47,138	47,040	47,125	46,964	47,104	1,126
13	6,70	49,822	49,853	49,791	49,843	49,745	49,830	49,667	49,808	1,126
14	6,70	53,158	53,189	53,126	53,179	53,079	53,165	52,999	53,143	1,143
15	6,70	55,904	55,936	55,872	55,925	55,824	55,911	55,744	55,888	1,144
16	6,70	59,191	59,222	59,158	59,212	59,109	59,197	59,027	59,174	1,157
17	6,70	61,968	62,000	61,935	61,989	61,886	61,974	61,803	61,950	1,158
18	6,70	65,218	65,249	65,184	65,239	65,134	65,223	65,050	65,199	1,169
19	6,70	68,019	68,051	67,985	68,040	67,935	68,024	67,850	68,000	1,170
20	6,70	71,240	71,272	71,206	71,261	71,154	71,245	71,068	71,220	1,179
21	6,70	74,061	74,093	74,026	74,081	73,974	74,065	73,888	74,040	1,180
22	6,30	76,259	76,291	76,223	76,280	76,170	76,263	76,082	76,237	1,200
23	6,30	79,095	79,128	79,060	79,116	79,006	79,099	78,917	79,072	1,201
24	6,30	82,271	82,304	82,235	82,292	82,181	82,275	82,091	82,248	1,207
25	6,30	85,121	85,154	85,085	85,141	85,030	85,124	84,940	85,097	1,208
26	6,30	88,282	88,315	88,245	88,302	88,190	88,284	88,099	88,257	1,213
27	6,30	91,143	91,176	91,106	91,163	91,051	91,145	90,959	91,117	1,214
28	6,30	94,291	94,324	94,254	94,311	94,198	94,293	94,105	94,265	1,218
29	6,30	97,162	97,195	97,125	97,182	97,069	97,163	96,975	97,135	1,219
30	6,30	100,299	100,332	100,262	100,319	100,205	100,300	100,111	100,271	1,223
31	6,30	103,179	103,211	103,141	103,198	103,084	103,179	102,989	103,150	1,224
32	6,30	106,307	106,339	106,268	106,326	106,211	106,307	106,116	106,277	1,227
33	6,30	109,193	109,226	109,155	109,212	109,097	109,193	109,001	109,163	1,228
34	6,30	112,313	112,346	112,274	112,332	112,216	112,312	112,120	112,282	1,231
35	6,30	115,206	115,239	115,167	115,225	115,109	115,205	115,012	115,175	1,232
36	6,30	118,319	118,352	118,280	118,337	118,221	118,317	118,123	118,286	1,235
37	6,30	121,218	121,251	121,178	121,236	121,119	121,216	121,021	121,185	1,235
38	6,30	124,324	124,357	124,284	124,342	124,225	124,322	124,126	124,290	1,238
39	6,30	127,228	127,261	127,188	127,246	127,129	127,226	127,029	127,194	1,238
40	6,30	130,328	130,361	130,288	130,347	130,228	130,326	130,128	130,293	1,241
41	6,30	133,237	133,270	133,197	133,255	133,137	133,234	133,037	133,202	1,241
42	6,30	136,333	136,365	136,292	136,350	136,232	136,329	136,131	136,296	1,243
43	6,30	139,246	139,279	139,205	139,263	139,144	139,242	139,043	139,209	1,244
44	6,30	142,336	142,369	142,296	142,354	142,235	142,332	142,133	142,299	1,246
45	6,30	145,253	145,286	145,213	145,271	145,151	145,249	145,049	145,215	1,246
46	6,30	148,340	148,373	148,299	148,357	148,237	148,335	148,134	148,301	1,248
47	6,30	151,260	151,293	151,219	151,278	151,157	151,255	151,054	151,221	1,248
48	6,30	154,343	154,376	154,302	154,360	154,239	154,338	154,136	154,303	1,250
49	6,30	157,267	157,300	157,225	157,284	157,163	157,261	157,059	157,226	1,250
50	6,30	160,346	160,379	160,304	160,363	160,241	160,340	160,137	160,305	1,252
51	6,30	163,273	163,305	163,231	163,289	163,168	163,266	163,063	163,231	1,252
52	6,30	166,349	166,381	166,306	166,365	166,243	166,342	166,138	166,306	1,254
53	6,30	169,278	169,311	169,236	169,294	169,172	169,271	169,067	169,235	1,254
54	6,30	172,351	172,384	172,309	172,367	172,245	172,344	172,138	172,308	1,255
55	6,30	175,283	175,316	175,241	175,299	175,177	175,276	175,070	175,239	1,256
56	6,30	178,353	178,386	178,311	178,369	178,246	178,345	178,139	178,309	1,257
57	6,30	181,288	181,321	181,245	181,304	181,181	181,280	181,073	181,243	1,257
58	6,30	184,356	184,388	184,312	184,371	184,248	184,347	184,140	184,310	1,258
59	6,30	187,292	187,325	187,249	187,308	187,184	187,283	187,076	187,246	1,259
60	6,30	190,358	190,390	190,314	190,373	190,249	190,348	190,140	190,310	1,260
61	6,30	193,296	193,329	193,253	193,311	193,187	193,287	193,078	193,249	1,260
62	6,30	196,359	196,392	196,316	196,374	196,250	196,349	196,140	196,311	1,261
63	6,30	199,300	199,332	199,256	199,315	199,190	199,290	199,081	199,251	1,261
64	6,30	202,361	202,393	202,317	202,375	202,251	202,350	202,141	202,312	1,262
65	6,30	205,304	205,336	205,260	205,318	205,193	205,293	205,083	205,254	1,262
66	6,30	208,363	208,395	208,318	208,377	208,252	208,351	208,141	208,312	1,263
67	6,30	211,307	211,339	211,263	211,321	211,196	211,295	211,085	211,256	1,264
68	6,30	214,364	214,396	214,320	214,378	214,253	214,352	214,141	214,313	1,264
69	6,30	217,310	217,342	217,265	217,324	217,198	217,298	217,086	217,258	1,265
70	6,30	220,366	220,398	220,321	220,379	220,253	220,353	220,141	220,313	1,266
71	6,30	223,313	223,345	223,268	223,326	223,200	223,300	223,088	223,260	1,266
72	6,30	226,367	226,399	226,322	226,380	226,254	226,354	226,141	226,313	1,267
73	6,30	229,316	229,348	229,271	229,329	229,203	229,302	229,089	229,262	1,267
74	6,30	232,368	232,400	232,323	232,381	232,254	232,354	232,141	232,313	1,267
75	6,30	235,318	235,350	235,273	235,331	235,204	235,304	235,090	235,263	1,268
76	6,30	238,369	238,401	238,323	238,382	238,255	238,355	238,141	238,314	1,268
77	6,30	241,321	241,353	241,275	241,333	241,206	241,306	241,092	241,265	1,268
78	6,30	244,370	244,402	244,324	244,383	244,255	244,355	244,140	244,314	1,269
79	6,30	247,323	247,355	247,277	247,335	247,208	247,308	247,093	247,266	1,269
80	6,30	250,371	250,403	250,325	250,383	250,256	250,356	250,140	250,314	1,270
81	6,30	253,325	253,357	253,279	253,337	253,209	253,309	253,094	253,267	1,270
82	6,30	256,372	256,404	256,326	256,384	256,256	256,356	256,140	256,313	1,271
83	6,30	259,327	259,359	259,281	259,339	259,211	259,311	259,094	259,268	1,271
84	6,30	262,373	262,405	262,326	262,385	262,256	262,356	262,139	262,313	1,271
85	6,30	265,329	265,361	265,283	265,341	265,212	265,312	265,095	265,269	1,272
86	6,30	268,374	268,405	268,327	268,385	268,257	268,357	268,139	268,313	1,272
87	6,30	271,331	271,363	271,284	271,342	271,213	271,314	271,096	271,270	1,272
88	6,30	274,375	274,406	274,328	274,386	274,257	274,357	274,139	274,313	1,273
89	6,30	277,333	277,364	277,286	277,344	277,215	277,315	277,096	277,271	1,273
90	6,30	280,376	280,407	280,328	280,386	280,257	280,357	280,138	280,313	1,273
91	6,30	283,335	283,366	283,287	283,345	283,216	283,316	283,097	283,271	1,274
92	6,30	286,376	286,407	286,329	286,387	286,257	286,357	286,138	286,313	1,274
93	6,30	289,336	289,367	289,288	289,346	289,217	289,317	289,097	289,272	1,274
94	6,30	292,377	292,408	292,329	292,387	292,257	292,357	292,137	292,312	1,275
95	6,30	295,338	295,369	295,290	295,348	295,218	295,318	295,098	295,273	1,275
96	6,30	298,378	298,409	298,329	298,387	298,257	298,357	298,137	298,312	1,275
97	6,30	301,339	301,370	301,291	301,349	301,219	301,319	301,098	301,273	1,275
98	6,30	304,378	304,409	304,330	304,388	304,257	304,358	304,136	304,312	1,276
99	6,30	307,341	307,371	307,292	307,350	307,219	307,320	307,098	307,274	1,276
100	6,30	310,379	310,410	310,330	310,388	310,257	310,358	310,136	310,311	1,276

5.24 37,5° pressure angle, module 4

Table 93 — Geometry internal spline, $\alpha = 37{,}5°$, $m = 4$, fillet root, $E_{v\,min} = 6{,}283$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	24,00	19,0405	29,84	28,40	21,22	6,330	6,358	6,400	6,470
7	28,00	22,2139	33,85	32,40	25,09	6,330	6,359	6,402	6,473
8	32,00	25,3873	37,85	36,40	28,99	6,331	6,360	6,403	6,475
9	36,00	28,5607	41,85	40,40	32,92	6,332	6,361	6,405	6,478
10	40,00	31,7341	45,86	44,40	36,86	6,332	6,362	6,406	6,480
11	44,00	34,9075	49,86	48,40	40,81	6,333	6,363	6,407	6,482
12	48,00	38,0810	53,86	52,40	44,78	6,333	6,363	6,409	6,484
13	52,00	41,2544	57,86	56,40	48,74	6,334	6,364	6,410	6,486
14	56,00	44,4278	61,87	60,40	52,72	6,334	6,365	6,411	6,488
15	60,00	47,6012	65,87	64,40	56,69	6,335	6,366	6,412	6,490
16	64,00	50,7746	69,87	68,40	60,68	6,335	6,366	6,413	6,491
17	68,00	53,9480	73,87	72,40	64,66	6,336	6,367	6,414	6,493
18	72,00	57,1214	77,88	76,40	68,64	6,336	6,368	6,415	6,495
19	76,00	60,2949	81,88	80,40	72,63	6,336	6,368	6,416	6,496
20	80,00	63,4683	85,88	84,40	76,62	6,337	6,369	6,417	6,498
21	84,00	66,6417	89,88	88,40	80,61	6,337	6,369	6,418	6,499
22	88,00	69,8151	93,88	92,40	84,60	6,337	6,370	6,419	6,500
23	92,00	72,9885	97,89	96,40	88,59	6,338	6,371	6,420	6,502
24	96,00	76,1619	101,89	100,40	92,58	6,338	6,371	6,421	6,503
25	100,00	79,3353	105,89	104,40	96,57	6,338	6,372	6,421	6,504
26	104,00	82,5087	109,89	108,40	100,56	6,339	6,372	6,422	6,506
27	108,00	85,6822	113,89	112,40	104,56	6,339	6,373	6,423	6,507
28	112,00	88,8556	117,89	116,40	108,55	6,339	6,373	6,424	6,508
29	116,00	92,0290	121,89	120,40	112,55	6,340	6,374	6,424	6,509
30	120,00	95,2024	125,90	124,40	116,54	6,340	6,374	6,425	6,510
31	124,00	98,3758	129,90	128,40	120,54	6,340	6,374	6,426	6,512
32	128,00	101,5492	133,90	132,40	124,53	6,340	6,375	6,427	6,513
33	132,00	104,7226	137,90	136,40	128,53	6,341	6,375	6,427	6,514
34	136,00	107,8961	141,90	140,40	132,52	6,341	6,376	6,428	6,515
35	140,00	111,0695	145,90	144,40	136,52	6,341	6,376	6,429	6,516
36	144,00	114,2429	149,90	148,40	140,52	6,341	6,377	6,429	6,517
37	148,00	117,4163	153,91	152,40	144,51	6,342	6,377	6,430	6,518
38	152,00	120,5897	157,91	156,40	148,51	6,342	6,377	6,431	6,519
39	156,00	123,7631	161,91	160,40	152,51	6,342	6,378	6,431	6,520
40	160,00	126,9365	165,91	164,40	156,51	6,342	6,378	6,432	6,521
41	164,00	130,1099	169,91	168,40	160,50	6,343	6,379	6,432	6,522
42	168,00	133,2834	173,91	172,40	164,50	6,343	6,379	6,433	6,523
43	172,00	136,4568	177,91	176,40	168,50	6,343	6,379	6,434	6,524
44	176,00	139,6302	181,92	180,40	172,50	6,343	6,380	6,434	6,525
45	180,00	142,8036	185,92	184,40	176,49	6,344	6,380	6,435	6,526
46	184,00	145,9770	189,92	188,40	180,49	6,344	6,380	6,435	6,527
47	188,00	149,1504	193,92	192,40	184,49	6,344	6,381	6,436	6,527
48	192,00	152,3238	197,92	196,40	188,49	6,344	6,381	6,436	6,528
49	196,00	155,4973	201,92	200,40	192,49	6,345	6,382	6,437	6,529
50	200,00	158,6707	205,92	204,40	196,48	6,345	6,382	6,437	6,530
51	204,00	161,8441	209,92	208,40	200,48	6,345	6,382	6,438	6,531
52	208,00	165,0175	213,92	212,40	204,48	6,345	6,383	6,439	6,532
53	212,00	168,1909	217,93	216,40	208,48	6,345	6,383	6,439	6,533
54	216,00	171,3643	221,93	220,40	212,48	6,346	6,383	6,440	6,534
55	220,00	174,5377	225,93	224,40	216,48	6,346	6,384	6,440	6,534
56	224,00	177,7111	229,93	228,40	220,47	6,346	6,384	6,441	6,535
57	228,00	180,8846	233,93	232,40	224,47	6,346	6,384	6,441	6,536
58	232,00	184,0580	237,93	236,40	228,47	6,346	6,384	6,442	6,537
59	236,00	187,2314	241,93	240,40	232,47	6,347	6,385	6,442	6,538
60	240,00	190,4048	245,93	244,40	236,47	6,347	6,385	6,443	6,538
61	244,00	193,5782	249,93	248,40	240,47	6,347	6,385	6,443	6,539
62	248,00	196,7516	253,93	252,40	244,47	6,347	6,386	6,444	6,540
63	252,00	199,9250	257,94	256,40	248,47	6,347	6,386	6,444	6,541
64	256,00	203,0985	261,94	260,40	252,47	6,348	6,386	6,444	6,541
65	260,00	206,2719	265,94	264,40	256,46	6,348	6,387	6,445	6,542
66	264,00	209,4453	269,94	268,40	260,46	6,348	6,387	6,445	6,543
67	268,00	212,6187	273,94	272,40	264,46	6,348	6,387	6,446	6,544
68	272,00	215,7921	277,94	276,40	268,46	6,348	6,388	6,446	6,544
69	276,00	218,9655	281,94	280,40	272,46	6,349	6,388	6,447	6,545
70	280,00	222,1389	285,94	284,40	276,46	6,349	6,388	6,447	6,546
71	284,00	225,3123	289,94	288,40	280,46	6,349	6,388	6,448	6,547
72	288,00	228,4858	293,94	292,40	284,46	6,349	6,389	6,448	6,547
73	292,00	231,6592	297,95	296,40	288,46	6,349	6,389	6,449	6,548
74	296,00	234,8326	301,95	300,40	292,46	6,349	6,389	6,449	6,549
75	300,00	238,0060	305,95	304,40	296,46	6,350	6,390	6,449	6,549
76	304,00	241,1794	309,95	308,40	300,45	6,350	6,390	6,450	6,550
77	308,00	244,3528	313,95	312,40	304,45	6,350	6,390	6,450	6,551
78	312,00	247,5262	317,95	316,40	308,45	6,350	6,390	6,451	6,551
79	316,00	250,6997	321,95	320,40	312,45	6,350	6,391	6,451	6,552
80	320,00	253,8731	325,95	324,40	316,45	6,350	6,391	6,452	6,553
81	324,00	257,0465	329,95	328,40	320,45	6,351	6,391	6,452	6,553
82	328,00	260,2199	333,95	332,40	324,45	6,351	6,391	6,452	6,554
83	332,00	263,3933	337,95	336,40	328,45	6,351	6,392	6,453	6,555
84	336,00	266,5667	341,96	340,40	332,45	6,351	6,392	6,453	6,555
85	340,00	269,7401	345,96	344,40	336,45	6,351	6,392	6,454	6,556
86	344,00	272,9135	349,96	348,40	340,45	6,351	6,392	6,454	6,557
87	348,00	276,0870	353,96	352,40	344,45	6,352	6,393	6,454	6,557
88	352,00	279,2604	357,96	356,40	348,45	6,352	6,393	6,455	6,558
89	356,00	282,4338	361,96	360,40	352,45	6,352	6,393	6,455	6,559
90	360,00	285,6072	365,96	364,40	356,45	6,352	6,394	6,456	6,559
91	364,00	288,7806	369,96	368,40	360,45	6,352	6,394	6,456	6,560
92	368,00	291,9540	373,96	372,40	364,45	6,352	6,394	6,456	6,561
93	372,00	295,1274	377,96	376,40	368,44	6,353	6,394	6,457	6,561
94	376,00	298,3009	381,96	380,40	372,44	6,353	6,395	6,457	6,562
95	380,00	301,4743	385,96	384,40	376,44	6,353	6,395	6,458	6,562
96	384,00	304,6477	389,96	388,40	380,44	6,353	6,395	6,458	6,563
97	388,00	307,8211	393,97	392,40	384,44	6,353	6,395	6,458	6,564
98	392,00	310,9945	397,97	396,40	388,44	6,353	6,396	6,459	6,564
99	396,00	314,1679	401,97	400,40	392,44	6,353	6,396	6,459	6,565
100	400,00	317,3413	405,97	404,40	396,44	6,354	6,396	6,460	6,565

Table 94 — Geometry external spline, $\alpha = 37{,}5°$, $m = 4$, fillet root, $S_{v\,max} = 6{,}283$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	24,00	19,0405	27,60	20,42	18,16	6,236	6,208	6,166	6,096
7	28,00	22,2139	31,60	24,29	22,15	6,236	6,207	6,164	6,093
8	32,00	25,3873	35,60	28,19	26,15	6,235	6,206	6,163	6,091
9	36,00	28,5607	39,60	32,12	30,15	6,234	6,205	6,161	6,088
10	40,00	31,7341	43,60	36,06	34,14	6,234	6,204	6,160	6,086
11	44,00	34,9075	47,60	40,01	38,14	6,233	6,203	6,159	6,084
12	48,00	38,0810	51,60	43,98	42,14	6,233	6,203	6,157	6,082
13	52,00	41,2544	55,60	47,94	46,14	6,232	6,202	6,156	6,080
14	56,00	44,4278	59,60	51,92	50,13	6,232	6,201	6,155	6,078
15	60,00	47,6012	63,60	55,89	54,13	6,231	6,200	6,154	6,076
16	64,00	50,7746	67,60	59,88	58,13	6,231	6,200	6,153	6,075
17	68,00	53,9480	71,60	63,86	62,13	6,230	6,199	6,152	6,073
18	72,00	57,1214	75,60	67,84	66,12	6,230	6,198	6,151	6,071
19	76,00	60,2949	79,60	71,83	70,12	6,230	6,198	6,150	6,070
20	80,00	63,4683	83,60	75,82	74,12	6,229	6,197	6,149	6,068
21	84,00	66,6417	87,60	79,81	78,12	6,229	6,197	6,148	6,067
22	88,00	69,8151	91,60	83,80	82,12	6,229	6,196	6,147	6,066
23	92,00	72,9885	95,60	87,79	86,11	6,228	6,195	6,146	6,064
24	96,00	76,1619	99,60	91,78	90,11	6,228	6,195	6,145	6,063
25	100,00	79,3353	103,60	95,77	94,11	6,228	6,194	6,145	6,062
26	104,00	82,5087	107,60	99,76	98,11	6,227	6,194	6,144	6,060
27	108,00	85,6822	111,60	103,76	102,11	6,227	6,193	6,143	6,059
28	112,00	88,8556	115,60	107,75	106,11	6,227	6,193	6,142	6,058
29	116,00	92,0290	119,60	111,75	110,11	6,226	6,192	6,142	6,057
30	120,00	95,2024	123,60	115,74	114,10	6,226	6,192	6,141	6,056
31	124,00	98,3758	127,60	119,74	118,10	6,226	6,192	6,140	6,054
32	128,00	101,5492	131,60	123,73	122,10	6,226	6,191	6,139	6,053
33	132,00	104,7226	135,60	127,73	126,10	6,225	6,191	6,139	6,052
34	136,00	107,8961	139,60	131,72	130,10	6,225	6,190	6,138	6,051
35	140,00	111,0695	143,60	135,72	134,10	6,225	6,190	6,137	6,050
36	144,00	114,2429	147,60	139,72	138,10	6,225	6,189	6,137	6,049
37	148,00	117,4163	151,60	143,71	142,09	6,224	6,189	6,136	6,048
38	152,00	120,5897	155,60	147,71	146,09	6,224	6,189	6,135	6,047
39	156,00	123,7631	159,60	151,71	150,09	6,224	6,188	6,135	6,046
40	160,00	126,9365	163,60	155,71	154,09	6,224	6,188	6,134	6,045
41	164,00	130,1099	167,60	159,70	158,09	6,223	6,187	6,134	6,044
42	168,00	133,2834	171,60	163,70	162,09	6,223	6,187	6,133	6,043
43	172,00	136,4568	175,60	167,70	166,09	6,223	6,187	6,132	6,042
44	176,00	139,6302	179,60	171,70	170,08	6,223	6,186	6,132	6,041
45	180,00	142,8036	183,60	175,69	174,08	6,222	6,186	6,131	6,040
46	184,00	145,9770	187,60	179,69	178,08	6,222	6,186	6,131	6,039
47	188,00	149,1504	191,60	183,69	182,08	6,222	6,185	6,130	6,039
48	192,00	152,3238	195,60	187,69	186,08	6,222	6,185	6,130	6,038
49	196,00	155,4973	199,60	191,69	190,08	6,221	6,184	6,129	6,037
50	200,00	158,6707	203,60	195,68	194,08	6,221	6,184	6,129	6,036
51	204,00	161,8441	207,60	199,68	198,08	6,221	6,184	6,128	6,035
52	208,00	165,0175	211,60	203,68	202,08	6,221	6,183	6,127	6,034
53	212,00	168,1909	215,60	207,68	206,07	6,221	6,183	6,127	6,033
54	216,00	171,3643	219,60	211,68	210,07	6,220	6,183	6,126	6,032
55	220,00	174,5377	223,60	215,68	214,07	6,220	6,182	6,126	6,032
56	224,00	177,7111	227,60	219,67	218,07	6,220	6,182	6,125	6,031
57	228,00	180,8846	231,60	223,67	222,07	6,220	6,182	6,125	6,030
58	232,00	184,0580	235,60	227,67	226,07	6,220	6,182	6,124	6,029
59	236,00	187,2314	239,60	231,67	230,07	6,219	6,181	6,124	6,028
60	240,00	190,4048	243,60	235,67	234,07	6,219	6,181	6,123	6,028
61	244,00	193,5782	247,60	239,67	238,07	6,219	6,181	6,123	6,027
62	248,00	196,7516	251,60	243,67	242,07	6,219	6,180	6,122	6,026
63	252,00	199,9250	255,60	247,67	246,06	6,219	6,180	6,122	6,025
64	256,00	203,0985	259,60	251,67	250,06	6,218	6,180	6,122	6,025
65	260,00	206,2719	263,60	255,66	254,06	6,218	6,179	6,121	6,024
66	264,00	209,4453	267,60	259,66	258,06	6,218	6,179	6,121	6,023
67	268,00	212,6187	271,60	263,66	262,06	6,218	6,179	6,120	6,022
68	272,00	215,7921	275,60	267,66	266,06	6,218	6,178	6,120	6,022
69	276,00	218,9655	279,60	271,66	270,06	6,217	6,178	6,119	6,021
70	280,00	222,1389	283,60	275,66	274,06	6,217	6,178	6,119	6,020
71	284,00	225,3123	287,60	279,66	278,06	6,217	6,178	6,118	6,019
72	288,00	228,4858	291,60	283,66	282,06	6,217	6,177	6,118	6,019
73	292,00	231,6592	295,60	287,66	286,05	6,217	6,177	6,117	6,018
74	296,00	234,8326	299,60	291,66	290,05	6,217	6,177	6,117	6,017
75	300,00	238,0060	303,60	295,66	294,05	6,216	6,176	6,117	6,017
76	304,00	241,1794	307,60	299,65	298,05	6,216	6,176	6,116	6,016
77	308,00	244,3528	311,60	303,65	302,05	6,216	6,176	6,116	6,015
78	312,00	247,5262	315,60	307,65	306,05	6,216	6,176	6,115	6,015
79	316,00	250,6997	319,60	311,65	310,05	6,216	6,175	6,115	6,014
80	320,00	253,8731	323,60	315,65	314,05	6,216	6,175	6,114	6,013
81	324,00	257,0465	327,60	319,65	318,05	6,215	6,175	6,114	6,013
82	328,00	260,2199	331,60	323,65	322,05	6,215	6,175	6,114	6,012
83	332,00	263,3933	335,60	327,65	326,05	6,215	6,174	6,113	6,011
84	336,00	266,5667	339,60	331,65	330,04	6,215	6,174	6,113	6,011
85	340,00	269,7401	343,60	335,65	334,04	6,215	6,174	6,112	6,010
86	344,00	272,9135	347,60	339,65	338,04	6,215	6,174	6,112	6,009
87	348,00	276,0870	351,60	343,65	342,04	6,214	6,173	6,112	6,009
88	352,00	279,2604	355,60	347,65	346,04	6,214	6,173	6,111	6,008
89	356,00	282,4338	359,60	351,65	350,04	6,214	6,173	6,111	6,007
90	360,00	285,6072	363,60	355,65	354,04	6,214	6,172	6,110	6,007
91	364,00	288,7806	367,60	359,65	358,04	6,214	6,172	6,110	6,006
92	368,00	291,9540	371,60	363,65	362,04	6,214	6,172	6,110	6,005
93	372,00	295,1274	375,60	367,64	366,04	6,213	6,172	6,109	6,005
94	376,00	298,3009	379,60	371,64	370,04	6,213	6,171	6,109	6,004
95	380,00	301,4743	383,60	375,64	374,04	6,213	6,171	6,108	6,004
96	384,00	304,6477	387,60	379,64	378,04	6,213	6,171	6,108	6,003
97	388,00	307,8211	391,60	383,64	382,03	6,213	6,171	6,108	6,002
98	392,00	310,9945	395,60	387,64	386,03	6,213	6,170	6,107	6,002
99	396,00	314,1679	399,60	391,64	390,03	6,213	6,170	6,107	6,001
100	400,00	317,3413	403,60	395,64	394,03	6,212	6,170	6,106	6,001

Table 95 — Inspection dimensions internal spline, $\alpha = 37{,}5°$, $m = 4$, $E_{v\,min} = 6{,}283$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	7,10	12,302	12,416	12,334	12,513	12,380	12,645	12,448	12,842	2,668
7	7,10	16,151	16,214	16,169	16,273	16,194	16,360	16,234	16,500	1,946
8	7,10	20,918	20,974	20,934	21,027	20,957	21,106	20,994	21,236	1,786
9	7,10	24,529	24,580	24,544	24,630	24,566	24,703	24,600	24,825	1,652
10	7,50	27,815	27,869	27,831	27,922	27,855	28,001	27,891	28,131	1,745
11	7,50	31,500	31,551	31,516	31,601	31,538	31,676	31,573	31,800	1,648
12	7,50	35,964	36,014	35,980	36,063	36,002	36,137	36,037	36,259	1,610
13	7,50	39,667	39,714	39,682	39,762	39,703	39,834	39,737	39,953	1,559
14	7,50	44,052	44,098	44,067	44,146	44,089	44,218	44,123	44,337	1,540
15	7,50	47,779	47,824	47,794	47,872	47,816	47,942	47,850	48,060	1,507
16	7,50	52,110	52,155	52,125	52,202	52,147	52,273	52,181	52,390	1,496
17	7,50	55,861	55,905	55,876	55,952	55,898	56,022	55,932	56,138	1,473
18	7,50	60,151	60,196	60,167	60,242	60,189	60,313	60,223	60,429	1,466
19	7,50	63,923	63,967	63,939	64,014	63,961	64,083	63,995	64,200	1,449
20	7,50	68,183	68,226	68,198	68,273	68,221	68,343	68,256	68,460	1,444
21	8,00	70,551	70,595	70,567	70,643	70,590	70,715	70,626	70,835	1,471
22	8,00	74,790	74,833	74,806	74,881	74,829	74,953	74,865	75,073	1,464
23	8,00	78,603	78,647	78,620	78,695	78,643	78,766	78,679	78,886	1,451
24	8,00	82,820	82,863	82,837	82,911	82,860	82,983	82,897	83,103	1,446
25	8,00	86,646	86,689	86,663	86,737	86,687	86,809	86,723	86,928	1,435
26	8,00	90,845	90,888	90,862	90,936	90,886	91,008	90,923	91,128	1,431
27	8,00	94,682	94,725	94,699	94,773	94,723	94,844	94,760	94,964	1,423
28	8,00	98,866	98,908	98,883	98,957	98,908	99,029	98,945	99,149	1,420
29	8,00	102,713	102,755	102,730	102,803	102,754	102,875	102,792	102,995	1,412
30	8,00	106,884	106,926	106,901	106,974	106,926	107,046	106,964	107,167	1,410
31	8,00	110,739	110,781	110,757	110,829	110,782	110,901	110,820	111,022	1,404
32	8,00	114,899	114,941	114,917	114,989	114,942	115,062	114,980	115,183	1,402
33	8,00	118,763	118,803	118,780	118,852	118,805	118,925	118,844	119,046	1,396
34	8,00	122,913	122,954	122,931	123,002	122,956	123,075	122,995	123,197	1,395
35	8,00	126,783	126,824	126,801	126,872	126,826	126,945	126,866	127,067	1,390
36	8,00	130,924	130,965	130,943	131,014	130,968	131,087	131,008	131,209	1,388
37	8,00	134,801	134,841	134,819	134,890	134,845	134,964	134,885	135,086	1,384
38	8,00	138,935	138,975	138,953	139,024	138,979	139,098	139,019	139,220	1,383
39	8,00	142,817	142,857	142,836	142,906	142,862	142,980	142,902	143,103	1,379
40	8,00	146,944	146,984	146,963	147,033	146,989	147,107	147,030	147,230	1,378
41	8,00	150,832	150,871	150,851	150,921	150,877	150,995	150,918	151,118	1,375
42	8,00	154,953	154,992	154,971	155,042	154,998	155,116	155,039	155,240	1,374
43	8,00	158,845	158,884	158,864	158,934	158,891	159,009	158,932	159,132	1,371
44	8,00	162,960	162,999	162,979	163,049	163,006	163,124	163,048	163,248	1,370
45	8,00	166,857	166,896	166,876	166,946	166,904	167,021	166,946	167,146	1,368
46	8,00	170,967	171,006	170,986	171,056	171,014	171,131	171,056	171,256	1,367
47	8,00	174,868	174,907	174,888	174,957	174,915	175,032	174,958	175,158	1,365
48	8,00	178,973	179,012	178,993	179,062	179,021	179,138	179,064	179,264	1,364
49	8,00	182,878	182,917	182,898	182,967	182,926	183,043	182,969	183,169	1,362
50	8,00	186,979	187,018	186,999	187,068	187,027	187,144	187,071	187,270	1,361
51	8,00	190,888	190,926	190,908	190,977	190,936	191,053	190,980	191,179	1,359
52	8,00	194,985	195,023	195,005	195,074	195,033	195,150	195,077	195,277	1,359
53	8,00	198,896	198,934	198,917	198,985	198,945	199,062	198,990	199,189	1,357
54	8,00	202,990	203,028	203,010	203,079	203,039	203,155	203,083	203,283	1,356
55	8,00	206,904	206,942	206,925	206,993	206,954	207,070	206,999	207,198	1,355
56	8,00	210,994	211,032	211,015	211,083	211,044	211,160	211,089	211,289	1,354
57	8,00	214,912	214,950	214,933	215,001	214,962	215,078	215,007	215,206	1,353
58	8,00	218,999	219,036	219,020	219,088	219,049	219,165	219,095	219,294	1,352
59	8,00	222,919	222,956	222,940	223,008	222,970	223,086	223,015	223,215	1,351
60	8,00	227,003	227,040	227,024	227,092	227,054	227,170	227,100	227,299	1,350
61	8,00	230,925	230,963	230,947	231,015	230,977	231,093	231,023	231,222	1,349
62	8,00	235,006	235,044	235,028	235,096	235,058	235,174	235,105	235,304	1,349
63	8,00	238,932	238,969	238,953	239,021	238,984	239,099	239,030	239,229	1,347
64	8,00	243,010	243,047	243,032	243,100	243,063	243,178	243,110	243,309	1,347
65	8,00	246,937	246,974	246,959	247,027	246,990	247,105	247,037	247,236	1,346
66	8,00	251,013	251,050	251,035	251,103	251,067	251,182	251,114	251,313	1,346
67	8,00	254,943	254,980	254,965	255,032	254,996	255,111	255,044	255,243	1,345
68	8,00	259,017	259,053	259,039	259,106	259,070	259,185	259,118	259,317	1,344
69	8,00	262,948	262,985	262,970	263,038	263,002	263,117	263,050	263,249	1,343
70	8,00	267,020	267,056	267,042	267,109	267,074	267,189	267,122	267,321	1,343
71	8,00	270,953	270,989	270,975	271,043	271,007	271,122	271,056	271,255	1,342
72	8,00	275,023	275,059	275,045	275,112	275,077	275,192	275,126	275,325	1,342
73	8,00	278,958	278,994	278,980	279,047	279,013	279,127	279,062	279,261	1,341
74	8,00	283,025	283,062	283,048	283,115	283,081	283,195	283,130	283,329	1,341
75	8,00	286,962	286,998	286,985	287,052	287,018	287,132	287,067	287,266	1,340
76	8,00	291,028	291,064	291,051	291,118	291,084	291,198	291,134	291,333	1,339
77	8,00	294,966	295,002	294,989	295,056	295,022	295,137	295,072	295,271	1,339
78	8,00	299,031	299,066	299,054	299,120	299,087	299,201	299,137	299,336	1,338
79	8,00	302,970	303,006	302,994	303,060	303,027	303,141	303,078	303,276	1,338
80	8,00	307,033	307,069	307,057	307,123	307,090	307,204	307,141	307,340	1,337
81	8,00	310,974	311,010	310,998	311,064	311,031	311,146	311,082	311,281	1,337
82	8,00	315,035	315,071	315,059	315,125	315,093	315,207	315,144	315,343	1,337
83	8,00	318,978	319,013	319,002	319,068	319,036	319,150	319,087	319,286	1,336
84	8,00	323,037	323,073	323,061	323,128	323,096	323,210	323,147	323,346	1,336
85	8,00	326,981	327,017	327,005	327,071	327,040	327,154	327,092	327,290	1,335
86	8,00	331,040	331,075	331,064	331,130	331,098	331,212	331,150	331,349	1,335
87	8,00	334,985	335,020	335,009	335,075	335,044	335,157	335,096	335,295	1,334
88	8,00	339,042	339,077	339,066	339,132	339,101	339,215	339,153	339,352	1,334
89	8,00	342,988	343,023	343,013	343,078	343,047	343,161	343,100	343,299	1,334
90	8,00	347,044	347,079	347,068	347,134	347,103	347,217	347,156	347,355	1,333
91	8,00	350,991	351,026	351,016	351,081	351,051	351,165	351,104	351,303	1,333
92	8,00	355,045	355,080	355,070	355,136	355,106	355,219	355,159	355,358	1,333
93	8,00	358,994	359,029	359,019	359,085	359,054	359,168	359,108	359,307	1,332
94	8,00	363,047	363,082	363,072	363,138	363,108	363,221	363,162	363,361	1,332
95	8,00	366,997	367,032	367,022	367,087	367,058	367,171	367,112	367,311	1,331
96	8,00	371,049	371,084	371,074	371,140	371,110	371,224	371,165	371,363	1,331
97	8,00	375,000	375,034	375,025	375,090	375,061	375,174	375,116	375,315	1,331
98	8,00	379,051	379,085	379,076	379,141	379,112	379,226	379,167	379,366	1,331
99	8,00	383,002	383,037	383,028	383,093	383,064	383,178	383,119	383,318	1,330
100	8,00	387,052	387,087	387,078	387,143	387,115	387,228	387,170	387,369	1,330

Table 96 — Inspection dimensions internal spline, $\alpha = 37{,}5°$, $m = 4$, $S_{v\,max} = 6{,}283$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	10,60	42,328	42,358	42,300	42,350	42,259	42,338	42,189	42,319	0,994
7	10,00	44,193	44,223	44,165	44,215	44,122	44,203	44,051	44,184	1,002
8	9,50	47,995	48,027	47,965	48,018	47,919	48,005	47,843	47,984	1,059
9	9,50	51,410	51,442	51,380	51,433	51,333	51,419	51,256	51,398	1,057
10	9,50	56,110	56,142	56,078	56,133	56,030	56,119	55,950	56,096	1,086
11	9,00	58,453	58,486	58,420	58,476	58,371	58,461	58,289	58,438	1,101
12	9,00	62,995	63,029	62,962	63,019	62,911	63,003	62,826	62,980	1,123
13	9,00	66,602	66,636	66,568	66,625	66,517	66,610	66,431	66,586	1,123
14	9,00	71,052	71,086	71,017	71,075	70,964	71,059	70,877	71,034	1,140
15	9,00	74,714	74,748	74,678	74,737	74,625	74,720	74,537	74,695	1,141
16	9,00	79,097	79,132	79,061	79,120	79,007	79,103	78,917	79,077	1,154
17	9,00	82,800	82,835	82,764	82,823	82,709	82,806	82,619	82,780	1,155
18	9,00	87,134	87,169	87,097	87,157	87,042	87,139	86,949	87,112	1,166
19	8,50	89,632	89,667	89,594	89,655	89,538	89,637	89,444	89,609	1,180
20	8,50	93,922	93,957	93,884	93,944	93,826	93,926	93,731	93,898	1,189
21	8,50	97,683	97,718	97,644	97,705	97,586	97,686	97,490	97,658	1,190
22	8,50	101,942	101,978	101,904	101,965	101,845	101,946	101,748	101,917	1,197
23	8,50	105,724	105,760	105,685	105,747	105,626	105,727	105,528	105,698	1,198
24	8,50	109,960	109,996	109,920	109,982	109,861	109,963	109,762	109,932	1,204
25	8,50	113,760	113,795	113,720	113,782	113,660	113,762	113,560	113,731	1,205
26	8,50	117,975	118,011	117,935	117,997	117,875	117,977	117,774	117,946	1,210
27	8,50	121,790	121,826	121,750	121,812	121,689	121,791	121,587	121,760	1,211
28	8,50	125,989	126,024	125,948	126,010	125,886	125,989	125,784	125,957	1,215
29	8,50	129,816	129,852	129,775	129,838	129,713	129,817	129,610	129,784	1,216
30	8,50	134,000	134,036	133,959	134,021	133,896	134,000	133,792	133,967	1,220
31	8,50	137,839	137,875	137,798	137,860	137,735	137,839	137,630	137,806	1,221
32	8,50	142,011	142,046	141,969	142,031	141,905	142,009	141,800	141,976	1,225
33	8,50	145,860	145,895	145,817	145,880	145,754	145,858	145,648	145,824	1,225
34	8,50	150,020	150,055	149,977	150,040	149,913	150,018	149,806	149,984	1,229
35	8,50	153,877	153,913	153,835	153,897	153,770	153,875	153,663	153,840	1,229
36	8,50	158,028	158,064	157,985	158,048	157,920	158,025	157,812	157,990	1,232
37	8,50	161,893	161,929	161,850	161,913	161,785	161,890	161,676	161,855	1,233
38	8,50	166,035	166,071	165,992	166,055	165,926	166,032	165,817	165,996	1,235
39	8,50	169,908	169,943	169,864	169,927	169,798	169,904	169,688	169,868	1,236
40	8,50	174,042	174,078	173,998	174,061	173,932	174,037	173,821	174,001	1,238
41	8,50	177,921	177,956	177,876	177,940	177,810	177,916	177,699	177,879	1,239
42	8,50	182,048	182,084	182,004	182,067	181,937	182,043	181,825	182,006	1,241
43	8,50	185,933	185,968	185,888	185,951	185,821	185,927	185,709	185,889	1,241
44	8,50	190,054	190,089	190,009	190,072	189,941	190,047	189,828	190,010	1,244
45	8,50	193,943	193,979	193,898	193,961	193,830	193,936	193,717	193,898	1,244
46	8,50	198,059	198,094	198,013	198,077	197,945	198,052	197,831	198,013	1,246
47	8,50	201,953	201,988	201,907	201,971	201,839	201,945	201,725	201,907	1,246
48	8,50	206,063	206,099	206,018	206,081	205,949	206,055	205,834	206,016	1,248
49	8,50	209,962	209,997	209,916	209,979	209,847	209,954	209,732	209,914	1,248
50	8,50	214,068	214,103	214,021	214,085	213,952	214,059	213,836	214,019	1,250
51	8,50	217,970	218,005	217,924	217,987	217,854	217,961	217,738	217,921	1,250
52	8,50	222,072	222,107	222,025	222,088	221,955	222,062	221,838	222,022	1,252
53	8,50	225,978	226,013	225,931	225,994	225,861	225,968	225,744	225,927	1,252
54	8,50	230,075	230,110	230,028	230,092	229,958	230,065	229,840	230,024	1,253
55	8,50	233,985	234,020	233,938	234,001	233,867	233,974	233,749	233,933	1,254
56	8,50	238,079	238,114	238,031	238,095	237,960	238,067	237,841	238,026	1,255
57	8,50	241,992	242,026	241,944	242,007	241,873	241,980	241,754	241,938	1,255
58	8,50	246,082	246,117	246,034	246,097	245,962	246,070	245,843	246,028	1,257
59	8,50	249,998	250,032	249,950	250,013	249,878	249,985	249,758	249,943	1,257
60	8,50	254,085	254,120	254,037	254,100	253,964	254,072	253,844	254,029	1,258
61	8,50	258,003	258,038	257,955	258,018	257,883	257,990	257,762	257,947	1,258
62	8,50	262,087	262,122	262,039	262,102	261,966	262,074	261,845	262,031	1,259
63	8,50	266,009	266,043	265,960	266,023	265,887	265,995	265,765	265,951	1,260
64	8,50	270,090	270,125	270,041	270,104	269,968	270,076	269,846	270,032	1,261
65	8,50	274,014	274,048	273,965	274,028	273,891	273,999	273,769	273,955	1,261
66	8,50	278,092	278,127	278,043	278,106	277,969	278,077	277,847	278,033	1,262
67	8,50	282,018	282,053	281,969	282,032	281,895	282,003	281,772	281,958	1,262
68	8,50	286,095	286,129	286,045	286,108	285,971	286,079	285,847	286,034	1,263
69	8,50	290,023	290,057	289,973	290,036	289,899	290,006	289,774	289,961	1,263
70	8,50	294,097	294,131	294,047	294,110	293,972	294,080	293,848	294,035	1,264
71	8,50	298,027	298,061	297,977	298,040	297,902	298,010	297,777	297,964	1,264
72	8,50	302,099	302,133	302,048	302,112	301,973	302,081	301,848	302,035	1,265
73	8,50	306,031	306,065	305,980	306,043	305,905	306,013	305,779	305,967	1,265
74	8,50	310,100	310,135	310,050	310,113	309,974	310,082	309,848	310,036	1,266
75	8,50	314,034	314,068	313,984	314,047	313,908	314,016	313,781	313,969	1,266
76	8,50	318,102	318,136	318,051	318,114	317,975	318,083	317,849	318,036	1,267
77	8,50	322,038	322,072	321,987	322,050	321,911	322,019	321,783	321,971	1,267
78	8,50	326,104	326,138	326,053	326,116	325,976	326,084	325,849	326,037	1,268
79	8,50	330,041	330,075	329,990	330,053	329,913	330,021	329,785	329,973	1,268
80	8,50	334,105	334,139	334,054	334,117	333,977	334,085	333,849	334,037	1,269
81	8,50	338,044	338,078	337,993	338,055	337,916	338,024	337,787	337,975	1,269
82	8,50	342,107	342,141	342,055	342,118	341,978	342,086	341,849	342,037	1,269
83	8,50	346,047	346,081	345,995	346,058	345,918	346,026	345,788	345,977	1,270
84	8,50	350,108	350,142	350,056	350,119	349,978	350,087	349,849	350,038	1,270
85	8,50	354,050	354,083	353,998	354,060	353,920	354,028	353,790	353,979	1,270
86	8,50	358,109	358,143	358,057	358,120	357,979	358,087	357,849	358,038	1,271
87	8,50	362,052	362,086	362,000	362,063	361,922	362,030	361,791	361,980	1,271
88	8,50	366,111	366,144	366,058	366,121	365,980	366,088	365,849	366,038	1,272
89	8,50	370,055	370,088	370,002	370,065	369,924	370,032	369,792	369,982	1,272
90	8,50	374,112	374,145	374,059	374,122	373,980	374,088	373,848	374,038	1,272
91	8,50	378,057	378,091	378,005	378,067	377,925	378,034	377,793	377,983	1,272
92	8,50	382,113	382,146	382,060	382,122	381,981	382,089	381,848	382,038	1,273
93	8,50	386,060	386,093	386,007	386,069	385,927	386,035	385,794	385,984	1,273
94	8,50	390,114	390,147	390,061	390,123	389,981	390,089	389,848	390,038	1,273
95	8,50	394,062	394,095	394,008	394,071	393,928	394,037	393,795	393,985	1,274
96	8,50	398,115	398,148	398,061	398,124	397,981	398,090	397,847	398,038	1,274
97	8,50	402,064	402,097	402,010	402,072	401,930	402,038	401,796	401,986	1,274
98	8,50	406,116	406,149	406,062	406,124	405,982	406,090	405,847	406,037	1,275
99	8,50	410,066	410,099	410,012	410,074	409,931	410,039	409,796	409,987	1,275
100	8,50	414,117	414,150	414,063	414,125	413,982	414,090	413,847	414,037	1,275

5.25 37,5° pressure angle, module 5

Table 97 — Geometry internal spline, $\alpha = 37{,}5°$, $m = 5$, fillet root, $E_{v\,min} = 7{,}854$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	30,00	23,8006	37,26	35,50	26,53	7,904	7,935	7,980	8,056
7	35,00	27,7674	42,27	40,50	31,36	7,905	7,936	7,982	8,059
8	40,00	31,7341	47,27	45,50	36,24	7,906	7,937	7,984	8,062
9	45,00	35,7009	52,27	50,50	41,15	7,907	7,938	7,985	8,064
10	50,00	39,6677	57,28	55,50	46,07	7,907	7,939	7,987	8,067
11	55,00	43,6344	62,28	60,50	51,02	7,908	7,940	7,988	8,069
12	60,00	47,6012	67,28	65,50	55,97	7,908	7,941	7,990	8,071
13	65,00	51,5680	72,29	70,50	60,93	7,909	7,942	7,991	8,073
14	70,00	55,5347	77,29	75,50	65,90	7,909	7,943	7,992	8,075
15	75,00	59,5015	82,29	80,50	70,87	7,910	7,943	7,994	8,077
16	80,00	63,4683	87,29	85,50	75,84	7,910	7,944	7,995	8,079
17	85,00	67,4350	92,30	90,50	80,82	7,911	7,945	7,996	8,081
18	90,00	71,4018	97,30	95,50	85,80	7,911	7,945	7,997	8,083
19	95,00	75,3686	102,30	100,50	90,79	7,912	7,946	7,998	8,084
20	100,00	79,3353	107,30	105,50	95,77	7,912	7,947	7,999	8,086
21	105,00	83,3021	112,30	110,50	100,76	7,912	7,947	8,000	8,087
22	110,00	87,2689	117,31	115,50	105,75	7,913	7,948	8,001	8,089
23	115,00	91,2356	122,31	120,50	110,73	7,913	7,949	8,002	8,091
24	120,00	95,2024	127,31	125,50	115,72	7,913	7,949	8,003	8,092
25	125,00	99,1692	132,31	130,50	120,71	7,914	7,950	8,004	8,093
26	130,00	103,1359	137,31	135,50	125,71	7,914	7,950	8,004	8,095
27	135,00	107,1027	142,32	140,50	130,70	7,915	7,951	8,005	8,096
28	140,00	111,0695	147,32	145,50	135,69	7,915	7,951	8,006	8,097
29	145,00	115,0362	152,32	150,50	140,68	7,915	7,952	8,007	8,099
30	150,00	119,0030	157,32	155,50	145,68	7,916	7,952	8,008	8,100
31	155,00	122,9698	162,32	160,50	150,67	7,916	7,953	8,009	8,101
32	160,00	126,9365	167,32	165,50	155,67	7,916	7,953	8,009	8,102
33	165,00	130,9033	172,33	170,50	160,66	7,916	7,954	8,010	8,104
34	170,00	134,8701	177,33	175,50	165,66	7,917	7,954	8,011	8,105
35	175,00	138,8368	182,33	180,50	170,65	7,917	7,955	8,012	8,106
36	180,00	142,8036	187,33	185,50	175,65	7,917	7,955	8,012	8,107
37	185,00	146,7704	192,33	190,50	180,64	7,918	7,956	8,013	8,108
38	190,00	150,7371	197,33	195,50	185,64	7,918	7,956	8,014	8,109
39	195,00	154,7039	202,33	200,50	190,64	7,918	7,957	8,014	8,111
40	200,00	158,6707	207,34	205,50	195,63	7,918	7,957	8,015	8,112
41	205,00	162,6374	212,34	210,50	200,63	7,919	7,957	8,016	8,113
42	210,00	166,6042	217,34	215,50	205,63	7,919	7,958	8,016	8,114
43	215,00	170,5710	222,34	220,50	210,62	7,919	7,958	8,017	8,115
44	220,00	174,5377	227,34	225,50	215,62	7,919	7,959	8,018	8,116
45	225,00	178,5045	232,34	230,50	220,62	7,920	7,959	8,018	8,117
46	230,00	182,4713	237,34	235,50	225,61	7,920	7,960	8,019	8,118
47	235,00	186,4380	242,35	240,50	230,61	7,920	7,960	8,020	8,119
48	240,00	190,4048	247,35	245,50	235,61	7,920	7,960	8,020	8,120
49	245,00	194,3716	252,35	250,50	240,61	7,921	7,961	8,021	8,121
50	250,00	198,3383	257,35	255,50	245,61	7,921	7,961	8,021	8,122
51	255,00	202,3051	262,35	260,50	250,60	7,921	7,961	8,022	8,123
52	260,00	206,2719	267,35	265,50	255,60	7,921	7,962	8,023	8,124
53	265,00	210,2386	272,35	270,50	260,60	7,922	7,962	8,023	8,125
54	270,00	214,2054	277,35	275,50	265,60	7,922	7,963	8,024	8,126
55	275,00	218,1722	282,36	280,50	270,60	7,922	7,963	8,024	8,126
56	280,00	222,1389	287,36	285,50	275,59	7,922	7,963	8,025	8,127
57	285,00	226,1057	292,36	290,50	280,59	7,923	7,964	8,025	8,128
58	290,00	230,0725	297,36	295,50	285,59	7,923	7,964	8,026	8,129
59	295,00	234,0392	302,36	300,50	290,59	7,923	7,964	8,027	8,130
60	300,00	238,0060	307,36	305,50	295,59	7,923	7,965	8,027	8,131
61	305,00	241,9728	312,36	310,50	300,59	7,923	7,965	8,028	8,132
62	310,00	245,9395	317,36	315,50	305,58	7,924	7,965	8,028	8,133
63	315,00	249,9063	322,36	320,50	310,58	7,924	7,966	8,029	8,133
64	320,00	253,8731	327,37	325,50	315,58	7,924	7,966	8,029	8,134
65	325,00	257,8398	332,37	330,50	320,58	7,924	7,966	8,030	8,135
66	330,00	261,8066	337,37	335,50	325,58	7,924	7,967	8,030	8,136
67	335,00	265,7734	342,37	340,50	330,58	7,925	7,967	8,031	8,137
68	340,00	269,7401	347,37	345,50	335,58	7,925	7,967	8,031	8,138
69	345,00	273,7069	352,37	350,50	340,58	7,925	7,968	8,032	8,138
70	350,00	277,6737	357,37	355,50	345,57	7,925	7,968	8,032	8,139
71	355,00	281,6404	362,37	360,50	350,57	7,926	7,968	8,033	8,140
72	360,00	285,6072	367,37	365,50	355,57	7,926	7,969	8,033	8,141
73	365,00	289,5740	372,37	370,50	360,57	7,926	7,969	8,034	8,142
74	370,00	293,5407	377,38	375,50	365,57	7,926	7,969	8,034	8,142
75	375,00	297,5075	382,38	380,50	370,57	7,926	7,970	8,035	8,143
76	380,00	301,4743	387,38	385,50	375,57	7,926	7,970	8,035	8,144
77	385,00	305,4410	392,38	390,50	380,57	7,927	7,970	8,036	8,145
78	390,00	309,4078	397,38	395,50	385,57	7,927	7,971	8,036	8,145
79	395,00	313,3746	402,38	400,50	390,57	7,927	7,971	8,037	8,146
80	400,00	317,3413	407,38	405,50	395,57	7,927	7,971	8,037	8,147
81	405,00	321,3081	412,38	410,50	400,56	7,927	7,972	8,038	8,148
82	410,00	325,2749	417,38	415,50	405,56	7,928	7,972	8,038	8,148
83	415,00	329,2416	422,38	420,50	410,56	7,928	7,972	8,039	8,149
84	420,00	333,2084	427,39	425,50	415,56	7,928	7,972	8,039	8,150
85	425,00	337,1752	432,39	430,50	420,56	7,928	7,973	8,039	8,151
86	430,00	341,1419	437,39	435,50	425,56	7,928	7,973	8,040	8,151
87	435,00	345,1087	442,39	440,50	430,56	7,929	7,973	8,040	8,152
88	440,00	349,0755	447,39	445,50	435,56	7,929	7,974	8,041	8,153
89	445,00	353,0422	452,39	450,50	440,56	7,929	7,974	8,041	8,154
90	450,00	357,0090	457,39	455,50	445,56	7,929	7,974	8,042	8,154
91	455,00	360,9758	462,39	460,50	450,56	7,929	7,974	8,042	8,155
92	460,00	364,9425	467,39	465,50	455,56	7,929	7,975	8,043	8,156
93	465,00	368,9093	472,39	470,50	460,56	7,930	7,975	8,043	8,156
94	470,00	372,8761	477,40	475,50	465,56	7,930	7,975	8,043	8,157
95	475,00	376,8428	482,40	480,50	470,55	7,930	7,976	8,044	8,158
96	480,00	380,8096	487,40	485,50	475,55	7,930	7,976	8,044	8,159
97	485,00	384,7764	492,40	490,50	480,55	7,930	7,976	8,045	8,159
98	490,00	388,7431	497,40	495,50	485,55	7,930	7,976	8,045	8,160
99	495,00	392,7099	502,40	500,50	490,55	7,931	7,977	8,046	8,161
100	500,00	396,6767	507,40	505,50	495,55	7,931	7,977	8,046	8,161

Table 98 — Geometry external spline, $\alpha = 37{,}5°$, $m = 5$, fillet root, $S_{v\,max} = 7{,}854$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	30,00	23,8006	34,50	25,53	22,74	7,804	7,773	7,728	7,652
7	35,00	27,7674	39,50	30,36	27,73	7,803	7,772	7,726	7,649
8	40,00	31,7341	44,50	35,24	32,73	7,802	7,771	7,724	7,646
9	45,00	35,7009	49,50	40,15	37,73	7,801	7,770	7,723	7,644
10	50,00	39,6677	54,50	45,07	42,72	7,801	7,769	7,721	7,641
11	55,00	43,6344	59,50	50,02	47,72	7,800	7,768	7,720	7,639
12	60,00	47,6012	64,50	54,97	52,72	7,800	7,767	7,718	7,637
13	65,00	51,5680	69,50	59,93	57,71	7,799	7,766	7,717	7,635
14	70,00	55,5347	74,50	64,90	62,71	7,799	7,765	7,716	7,633
15	75,00	59,5015	79,50	69,87	67,71	7,798	7,765	7,714	7,631
16	80,00	63,4683	84,50	74,84	72,71	7,798	7,764	7,713	7,629
17	85,00	67,4350	89,50	79,82	77,70	7,797	7,763	7,712	7,627
18	90,00	71,4018	94,50	84,80	82,70	7,797	7,763	7,711	7,625
19	95,00	75,3686	99,50	89,79	87,70	7,796	7,762	7,710	7,624
20	100,00	79,3353	104,50	94,77	92,70	7,796	7,761	7,709	7,622
21	105,00	83,3021	109,50	99,76	97,70	7,796	7,761	7,708	7,621
22	110,00	87,2689	114,50	104,75	102,69	7,795	7,760	7,707	7,619
23	115,00	91,2356	119,50	109,73	107,69	7,795	7,759	7,706	7,617
24	120,00	95,2024	124,50	114,72	112,69	7,795	7,759	7,705	7,616
25	125,00	99,1692	129,50	119,71	117,69	7,794	7,758	7,704	7,615
26	130,00	103,1359	134,50	124,71	122,69	7,794	7,758	7,704	7,613
27	135,00	107,1027	139,50	129,70	127,68	7,793	7,757	7,703	7,612
28	140,00	111,0695	144,50	134,69	132,68	7,793	7,757	7,702	7,611
29	145,00	115,0362	149,50	139,68	137,68	7,793	7,756	7,701	7,609
30	150,00	119,0030	154,50	144,68	142,68	7,792	7,756	7,700	7,608
31	155,00	122,9698	159,50	149,67	147,68	7,792	7,755	7,699	7,607
32	160,00	126,9365	164,50	154,67	152,68	7,792	7,755	7,699	7,606
33	165,00	130,9033	169,50	159,66	157,67	7,792	7,754	7,698	7,604
34	170,00	134,8701	174,50	164,66	162,67	7,791	7,754	7,697	7,603
35	175,00	138,8368	179,50	169,65	167,67	7,791	7,753	7,696	7,602
36	180,00	142,8036	184,50	174,65	172,67	7,791	7,753	7,696	7,601
37	185,00	146,7704	189,50	179,64	177,67	7,790	7,752	7,695	7,600
38	190,00	150,7371	194,50	184,64	182,67	7,790	7,752	7,694	7,599
39	195,00	154,7039	199,50	189,64	187,67	7,790	7,751	7,694	7,597
40	200,00	158,6707	204,50	194,63	192,66	7,790	7,751	7,693	7,596
41	205,00	162,6374	209,50	199,63	197,66	7,789	7,751	7,692	7,595
42	210,00	166,6042	214,50	204,63	202,66	7,789	7,750	7,692	7,594
43	215,00	170,5710	219,50	209,62	207,66	7,789	7,750	7,691	7,593
44	220,00	174,5377	224,50	214,62	212,66	7,789	7,749	7,690	7,592
45	225,00	178,5045	229,50	219,62	217,66	7,788	7,749	7,690	7,591
46	230,00	182,4713	234,50	224,61	222,66	7,788	7,748	7,689	7,590
47	235,00	186,4380	239,50	229,61	227,65	7,788	7,748	7,688	7,589
48	240,00	190,4048	244,50	234,61	232,65	7,788	7,748	7,688	7,588
49	245,00	194,3716	249,50	239,61	237,65	7,787	7,747	7,687	7,587
50	250,00	198,3383	254,50	244,61	242,65	7,787	7,747	7,687	7,586
51	255,00	202,3051	259,50	249,60	247,65	7,787	7,747	7,686	7,585
52	260,00	206,2719	264,50	254,60	252,65	7,787	7,746	7,685	7,584
53	265,00	210,2386	269,50	259,60	257,65	7,786	7,746	7,685	7,583
54	270,00	214,2054	274,50	264,60	262,65	7,786	7,745	7,684	7,582
55	275,00	218,1722	279,50	269,60	267,64	7,786	7,745	7,684	7,582
56	280,00	222,1389	284,50	274,59	272,64	7,786	7,745	7,683	7,581
57	285,00	226,1057	289,50	279,59	277,64	7,785	7,744	7,683	7,580
58	290,00	230,0725	294,50	284,59	282,64	7,785	7,744	7,682	7,579
59	295,00	234,0392	299,50	289,59	287,64	7,785	7,744	7,681	7,578
60	300,00	238,0060	304,50	294,59	292,64	7,785	7,743	7,681	7,577
61	305,00	241,9728	309,50	299,59	297,64	7,785	7,743	7,680	7,576
62	310,00	245,9395	314,50	304,58	302,64	7,784	7,743	7,680	7,575
63	315,00	249,9063	319,50	309,58	307,64	7,784	7,742	7,679	7,575
64	320,00	253,8731	324,50	314,58	312,63	7,784	7,742	7,679	7,574
65	325,00	257,8398	329,50	319,58	317,63	7,784	7,742	7,678	7,573
66	330,00	261,8066	334,50	324,58	322,63	7,784	7,741	7,678	7,572
67	335,00	265,7734	339,50	329,58	327,63	7,783	7,741	7,677	7,571
68	340,00	269,7401	344,50	334,58	332,63	7,783	7,741	7,677	7,570
69	345,00	273,7069	349,50	339,58	337,63	7,783	7,740	7,676	7,570
70	350,00	277,6737	354,50	344,57	342,63	7,783	7,740	7,676	7,569
71	355,00	281,6404	359,50	349,57	347,63	7,782	7,740	7,675	7,568
72	360,00	285,6072	364,50	354,57	352,63	7,782	7,739	7,675	7,567
73	365,00	289,5740	369,50	359,57	357,63	7,782	7,739	7,674	7,566
74	370,00	293,5407	374,50	364,57	362,62	7,782	7,739	7,674	7,566
75	375,00	297,5075	379,50	369,57	367,62	7,782	7,738	7,673	7,565
76	380,00	301,4743	384,50	374,57	372,62	7,782	7,738	7,673	7,564
77	385,00	305,4410	389,50	379,57	377,62	7,781	7,738	7,672	7,563
78	390,00	309,4078	394,50	384,57	382,62	7,781	7,737	7,672	7,563
79	395,00	313,3746	399,50	389,57	387,62	7,781	7,737	7,671	7,562
80	400,00	317,3413	404,50	394,57	392,62	7,781	7,737	7,671	7,561
81	405,00	321,3081	409,50	399,56	397,62	7,781	7,736	7,670	7,560
82	410,00	325,2749	414,50	404,56	402,62	7,780	7,736	7,670	7,560
83	415,00	329,2416	419,50	409,56	407,62	7,780	7,736	7,669	7,559
84	420,00	333,2084	424,50	414,56	412,61	7,780	7,736	7,669	7,558
85	425,00	337,1752	429,50	419,56	417,61	7,780	7,735	7,669	7,557
86	430,00	341,1419	434,50	424,56	422,61	7,780	7,735	7,668	7,557
87	435,00	345,1087	439,50	429,56	427,61	7,779	7,735	7,668	7,556
88	440,00	349,0755	444,50	434,56	432,61	7,779	7,734	7,667	7,555
89	445,00	353,0422	449,50	439,56	437,61	7,779	7,734	7,667	7,554
90	450,00	357,0090	454,50	444,56	442,61	7,779	7,734	7,666	7,554
91	455,00	360,9758	459,50	449,56	447,61	7,779	7,734	7,666	7,553
92	460,00	364,9425	464,50	454,56	452,61	7,779	7,733	7,665	7,552
93	465,00	368,9093	469,50	459,56	457,61	7,778	7,733	7,665	7,552
94	470,00	372,8761	474,50	464,56	462,60	7,778	7,733	7,665	7,551
95	475,00	376,8428	479,50	469,55	467,60	7,778	7,732	7,664	7,550
96	480,00	380,8096	484,50	474,55	472,60	7,778	7,732	7,664	7,549
97	485,00	384,7764	489,50	479,55	477,60	7,778	7,732	7,663	7,549
98	490,00	388,7431	494,50	484,55	482,60	7,778	7,732	7,663	7,548
99	495,00	392,7099	499,50	489,55	487,60	7,777	7,731	7,662	7,547
100	500,00	396,6767	504,50	494,55	492,60	7,777	7,731	7,662	7,547

Table 99 — Inspection dimensions internal spline, $\alpha = 37{,}5°$, $m = 5$, $E_{v\,min} = 7{,}854$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	8,50	17,044	17,113	17,063	17,178	17,091	17,273	17,135	17,426	2,001
7	9,00	19,708	19,782	19,729	19,851	19,760	19,953	19,808	20,117	2,101
8	9,00	25,715	25,778	25,733	25,838	25,760	25,927	25,802	26,073	1,863
9	9,00	30,259	30,315	30,275	30,370	30,300	30,452	30,338	30,586	1,700
10	9,00	35,962	36,016	35,979	36,070	36,003	36,150	36,040	36,281	1,645
11	9,00	40,524	40,575	40,540	40,627	40,563	40,704	40,599	40,831	1,574
12	9,50	44,564	44,617	44,581	44,672	44,606	44,753	44,644	44,887	1,640
13	9,50	49,201	49,253	49,218	49,305	49,242	49,384	49,280	49,515	1,583
14	9,50	54,687	54,737	54,703	54,789	54,728	54,868	54,766	54,998	1,560
15	9,50	59,351	59,401	59,368	59,452	59,392	59,529	59,430	59,657	1,525
16	9,50	64,767	64,816	64,784	64,868	64,808	64,945	64,846	65,072	1,511
17	9,50	69,460	69,508	69,477	69,559	69,501	69,635	69,539	69,762	1,487
18	9,50	74,825	74,872	74,842	74,923	74,866	75,000	74,904	75,127	1,478
19	9,50	79,543	79,590	79,560	79,640	79,584	79,716	79,623	79,843	1,460
20	9,50	84,868	84,915	84,885	84,966	84,910	85,042	84,949	85,168	1,454
21	9,50	89,608	89,654	89,625	89,705	89,650	89,781	89,689	89,907	1,440
22	9,50	94,902	94,948	94,920	94,999	94,945	95,075	94,984	95,202	1,436
23	9,50	99,661	99,707	99,679	99,757	99,704	99,833	99,743	99,960	1,425
24	9,50	104,929	104,974	104,947	105,025	104,973	105,102	105,012	105,229	1,422
25	9,50	109,705	109,750	109,723	109,801	109,749	109,877	109,789	110,004	1,413
26	9,50	114,952	114,996	114,970	115,047	114,996	115,124	115,036	115,252	1,410
27	9,50	119,743	119,787	119,761	119,838	119,787	119,915	119,827	120,042	1,403
28	10,00	123,577	123,622	123,596	123,674	123,623	123,752	123,664	123,882	1,421
29	10,00	128,386	128,430	128,404	128,482	128,431	128,560	128,473	128,690	1,414
30	10,00	133,599	133,644	133,618	133,696	133,646	133,774	133,688	133,904	1,411
31	10,00	138,419	138,462	138,438	138,515	138,465	138,593	138,507	138,723	1,405
32	10,00	143,618	143,662	143,638	143,715	143,665	143,793	143,708	143,924	1,403
33	10,00	148,447	148,491	148,467	148,543	148,495	148,622	148,537	148,753	1,397
34	10,00	153,635	153,678	153,655	153,731	153,683	153,810	153,726	153,941	1,395
35	10,00	158,473	158,516	158,492	158,568	158,521	158,648	158,564	158,779	1,391
36	10,00	163,650	163,692	163,670	163,745	163,698	163,825	163,742	163,957	1,389
37	10,00	168,495	168,538	168,515	168,591	168,544	168,670	168,588	168,803	1,385
38	10,00	173,662	173,705	173,683	173,758	173,712	173,838	173,756	173,971	1,384
39	10,00	178,515	178,558	178,536	178,611	178,565	178,691	178,610	178,824	1,380
40	10,00	183,674	183,716	183,695	183,770	183,724	183,850	183,769	183,983	1,379
41	10,00	188,534	188,576	188,554	188,629	188,584	188,709	188,629	188,843	1,376
42	10,00	193,684	193,726	193,705	193,780	193,735	193,860	193,781	193,994	1,375
43	10,00	198,550	198,592	198,571	198,645	198,601	198,726	198,647	198,860	1,372
44	10,00	203,694	203,735	203,715	203,789	203,745	203,870	203,791	204,005	1,371
45	10,00	208,565	208,606	208,586	208,660	208,617	208,742	208,663	208,876	1,368
46	10,00	213,702	213,744	213,724	213,798	213,754	213,879	213,801	214,015	1,368
47	10,00	218,579	218,620	218,600	218,674	218,631	218,756	218,678	218,891	1,365
48	10,00	223,710	223,751	223,732	223,806	223,763	223,887	223,810	224,024	1,365
49	10,00	228,591	228,632	228,613	228,687	228,644	228,769	228,692	228,905	1,362
50	10,00	233,717	233,758	233,739	233,813	233,771	233,895	233,819	234,032	1,362
51	10,00	238,603	238,643	238,625	238,698	238,657	238,781	238,705	238,918	1,360
52	10,00	243,724	243,765	243,746	243,820	243,778	243,902	243,827	244,040	1,359
53	10,00	248,614	248,654	248,636	248,709	248,668	248,792	248,717	248,930	1,357
54	10,00	253,730	253,771	253,753	253,826	253,785	253,909	253,834	254,047	1,357
55	10,00	258,624	258,664	258,646	258,719	258,679	258,802	258,728	258,941	1,355
56	10,00	263,736	263,776	263,759	263,832	263,792	263,915	263,841	264,054	1,355
57	10,00	268,633	268,673	268,656	268,729	268,689	268,812	268,739	268,951	1,353
58	10,00	273,741	273,781	273,765	273,837	273,798	273,921	273,848	274,061	1,353
59	10,00	278,642	278,681	278,665	278,737	278,698	278,821	278,749	278,961	1,351
60	10,00	283,746	283,786	283,770	283,842	283,803	283,926	283,854	284,067	1,351
61	10,00	288,650	288,689	288,673	288,745	288,707	288,830	288,758	288,970	1,350
62	10,00	293,751	293,790	293,775	293,847	293,809	293,932	293,860	294,073	1,349
63	10,00	298,657	298,697	298,681	298,753	298,715	298,838	298,767	298,979	1,348
64	10,00	303,755	303,795	303,780	303,851	303,814	303,936	303,866	304,078	1,348
65	10,00	308,664	308,704	308,689	308,760	308,723	308,846	308,776	308,988	1,346
66	10,00	313,760	313,799	313,784	313,856	313,819	313,941	313,871	314,083	1,346
67	10,00	318,671	318,710	318,696	318,767	318,731	318,853	318,784	318,996	1,345
68	10,00	323,764	323,802	323,788	323,860	323,823	323,946	323,877	324,089	1,345
69	10,00	328,678	328,716	328,702	328,774	328,738	328,860	328,791	329,003	1,344
70	10,00	333,767	333,806	333,792	333,863	333,828	333,950	333,882	334,093	1,343
71	10,00	338,684	338,722	338,709	338,780	338,744	338,866	338,799	339,010	1,342
72	10,00	343,771	343,809	343,796	343,867	343,832	343,954	343,886	344,098	1,342
73	10,00	348,690	348,728	348,715	348,786	348,751	348,873	348,805	349,017	1,341
74	10,00	353,774	353,812	353,800	353,871	353,836	353,958	353,891	354,103	1,341
75	10,00	358,695	358,733	358,721	358,791	358,757	358,879	358,812	359,024	1,340
76	10,00	363,777	363,815	363,803	363,874	363,840	363,961	363,895	364,107	1,340
77	10,00	368,700	368,738	368,726	368,797	368,763	368,884	368,819	369,030	1,339
78	10,00	373,781	373,818	373,807	373,877	373,843	373,965	373,899	374,111	1,339
79	10,00	378,705	378,743	378,731	378,802	378,768	378,890	378,825	379,036	1,338
80	10,00	383,783	383,821	383,810	383,880	383,847	383,968	383,904	384,115	1,338
81	10,00	388,710	388,747	388,736	388,806	388,774	388,895	388,831	389,042	1,337
82	10,00	393,786	393,824	393,813	393,883	393,850	393,972	393,908	394,119	1,337
83	10,00	398,714	398,752	398,741	398,811	398,779	398,900	398,836	399,048	1,336
84	10,00	403,789	403,826	403,816	403,886	403,854	403,975	403,911	404,123	1,336
85	10,00	408,719	408,756	408,746	408,815	408,784	408,905	408,842	409,053	1,335
86	10,00	413,792	413,829	413,819	413,888	413,857	413,978	413,915	414,127	1,335
87	10,00	418,723	418,760	418,750	418,820	418,789	418,909	418,847	419,059	1,335
88	10,00	423,794	423,831	423,821	423,891	423,860	423,981	423,919	424,130	1,334
89	10,00	428,727	428,764	428,754	428,824	428,793	428,914	428,852	429,064	1,334
90	10,00	433,796	433,833	433,824	433,893	433,863	433,984	433,922	434,134	1,334
91	10,00	438,731	438,767	438,758	438,828	438,798	438,918	438,857	439,069	1,333
92	10,00	443,799	443,835	443,827	443,896	443,866	443,986	443,926	444,137	1,333
93	10,00	448,734	448,771	448,762	448,831	448,802	448,922	448,862	449,073	1,332
94	10,00	453,801	453,837	453,829	453,898	453,869	453,989	453,929	454,140	1,332
95	10,00	458,738	458,774	458,766	458,835	458,806	458,926	458,866	459,078	1,332
96	10,00	463,803	463,839	463,831	463,900	463,871	463,992	463,932	464,144	1,332
97	10,00	468,741	468,778	468,770	468,839	468,810	468,930	468,871	469,082	1,331
98	10,00	473,805	473,841	473,834	473,902	473,874	473,994	473,935	474,147	1,331
99	10,00	478,745	478,781	478,773	478,842	478,814	478,934	478,875	479,087	1,331
100	10,00	483,807	483,843	483,836	483,905	483,877	483,997	483,938	484,150	1,330

Table 100 — Inspection dimensions external spline, $\alpha = 37{,}5°$, $m = 5$, $S_{v\,max} = 7{,}854$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	13,20	52,806	52,837	52,776	52,829	52,731	52,816	52,656	52,796	0,995
7	12,50	55,250	55,282	55,219	55,273	55,173	55,259	55,096	55,238	1,002
8	12,50	61,454	61,487	61,421	61,477	61,373	61,463	61,291	61,441	1,044
9	11,80	64,097	64,131	64,064	64,121	64,014	64,106	63,930	64,083	1,058
10	11,80	69,969	70,004	69,934	69,993	69,882	69,978	69,796	69,953	1,088
11	11,80	74,382	74,417	74,347	74,406	74,294	74,390	74,207	74,365	1,088
12	11,20	78,633	78,669	78,597	78,658	78,542	78,641	78,451	78,615	1,123
13	11,20	83,142	83,178	83,105	83,166	83,050	83,149	82,957	83,123	1,124
14	11,20	88,703	88,740	88,665	88,727	88,609	88,710	88,514	88,683	1,140
15	11,20	93,280	93,317	93,242	93,305	93,185	93,287	93,090	93,259	1,141
16	11,20	98,759	98,796	98,720	98,783	98,662	98,765	98,564	98,736	1,154
17	11,20	103,388	103,425	103,349	103,412	103,290	103,393	103,192	103,364	1,156
18	11,20	108,805	108,842	108,765	108,829	108,705	108,809	108,605	108,780	1,166
19	10,60	111,989	112,026	111,948	112,012	111,887	111,993	111,785	111,962	1,180
20	10,60	117,351	117,388	117,309	117,374	117,247	117,354	117,144	117,323	1,189
21	10,60	122,052	122,089	122,010	122,075	121,948	122,055	121,844	122,023	1,189
22	10,60	127,376	127,414	127,334	127,400	127,271	127,379	127,166	127,347	1,197
23	10,60	132,104	132,142	132,062	132,127	131,998	132,106	131,892	132,073	1,198
24	10,60	137,399	137,436	137,356	137,421	137,291	137,400	137,184	137,367	1,204
25	10,60	142,148	142,186	142,105	142,171	142,040	142,149	141,932	142,115	1,205
26	10,60	147,418	147,455	147,374	147,440	147,308	147,418	147,199	147,384	1,210
27	10,60	152,186	152,224	152,142	152,208	152,076	152,186	151,967	152,151	1,211
28	10,60	157,434	157,472	157,390	157,456	157,323	157,433	157,212	157,398	1,215
29	10,60	162,219	162,257	162,174	162,241	162,107	162,218	161,996	162,182	1,216
30	10,60	167,449	167,487	167,404	167,470	167,336	167,447	167,224	167,411	1,220
31	10,60	172,248	172,285	172,202	172,269	172,135	172,245	172,021	172,209	1,221
32	10,60	177,462	177,500	177,416	177,483	177,348	177,459	177,234	177,422	1,225
33	10,60	182,273	182,311	182,227	182,294	182,158	182,269	182,044	182,232	1,225
34	10,60	187,473	187,511	187,427	187,494	187,358	187,469	187,242	187,431	1,229
35	10,60	192,295	192,333	192,249	192,316	192,179	192,291	192,063	192,253	1,229
36	10,60	197,483	197,521	197,437	197,504	197,367	197,478	197,250	197,440	1,232
37	10,60	202,315	202,353	202,268	202,335	202,198	202,310	202,080	202,271	1,233
38	10,60	207,493	207,530	207,445	207,512	207,374	207,487	207,256	207,447	1,235
39	10,60	212,333	212,371	212,286	212,353	212,214	212,327	212,096	212,287	1,236
40	10,60	217,501	217,539	217,453	217,520	217,382	217,494	217,262	217,454	1,238
41	10,60	222,349	222,387	222,301	222,368	222,229	222,342	222,109	222,301	1,239
42	10,60	227,509	227,546	227,460	227,528	227,388	227,501	227,267	227,460	1,241
43	10,60	232,364	232,402	232,316	232,383	232,243	232,356	232,121	232,314	1,241
44	10,60	237,516	237,553	237,467	237,534	237,394	237,507	237,272	237,465	1,243
45	10,60	242,378	242,415	242,329	242,396	242,255	242,368	242,133	242,326	1,244
46	10,60	247,522	247,559	247,473	247,540	247,399	247,512	247,276	247,470	1,246
47	10,60	252,390	252,427	252,340	252,408	252,266	252,380	252,142	252,337	1,246
48	10,60	257,528	257,565	257,478	257,545	257,403	257,517	257,279	257,474	1,248
49	10,60	262,401	262,438	262,351	262,418	262,276	262,390	262,151	262,346	1,248
50	10,60	267,533	267,570	267,483	267,550	267,408	267,521	267,282	267,477	1,250
51	10,60	272,411	272,449	272,361	272,428	272,286	272,399	272,160	272,355	1,250
52	10,60	277,538	277,575	277,488	277,555	277,412	277,525	277,285	277,481	1,252
53	10,60	282,421	282,458	282,370	282,437	282,294	282,408	282,167	282,363	1,252
54	10,60	287,543	287,580	287,492	287,559	287,415	287,529	287,288	287,484	1,253
55	10,60	292,430	292,467	292,379	292,446	292,302	292,416	292,174	292,370	1,254
56	10,60	297,547	297,584	297,496	297,563	297,418	297,533	297,290	297,486	1,255
57	10,60	302,438	302,475	302,386	302,454	302,309	302,423	302,180	302,377	1,255
58	10,60	307,551	307,588	307,499	307,566	307,421	307,536	307,292	307,489	1,257
59	10,60	312,446	312,483	312,394	312,461	312,316	312,430	312,186	312,383	1,257
60	10,60	317,555	317,591	317,502	317,569	317,424	317,538	317,293	317,491	1,258
61	10,60	322,453	322,490	322,401	322,468	322,322	322,436	322,191	322,389	1,258
62	10,60	327,558	327,595	327,505	327,572	327,427	327,541	327,295	327,493	1,259
63	10,60	332,460	332,496	332,407	332,474	332,328	332,442	332,196	332,394	1,260
64	10,60	337,561	337,598	337,508	337,575	337,429	337,543	337,296	337,495	1,261
65	10,60	342,466	342,502	342,413	342,480	342,333	342,447	342,200	342,398	1,261
66	10,60	347,564	347,601	347,511	347,578	347,431	347,545	347,298	347,496	1,262
67	10,60	352,472	352,508	352,418	352,485	352,338	352,452	352,204	352,403	1,262
68	10,60	357,567	357,603	357,513	357,580	357,433	357,547	357,299	357,497	1,263
69	10,60	362,477	362,513	362,423	362,490	362,343	362,457	362,208	362,407	1,263
70	10,60	367,570	367,606	367,516	367,582	367,435	367,549	367,299	367,499	1,264
71	10,60	372,482	372,518	372,428	372,495	372,347	372,461	372,211	372,411	1,264
72	10,60	377,572	377,608	377,518	377,585	377,436	377,551	377,300	377,500	1,265
73	10,60	382,487	382,523	382,433	382,499	382,351	382,466	382,214	382,414	1,265
74	10,60	387,574	387,610	387,520	387,586	387,438	387,552	387,301	387,501	1,266
75	10,60	392,492	392,528	392,437	392,504	392,355	392,469	392,217	392,417	1,266
76	10,60	397,577	397,612	397,522	397,588	397,439	397,554	397,301	397,501	1,267
77	10,60	402,496	402,532	402,441	402,508	402,358	402,473	402,220	402,420	1,267
78	10,60	407,579	407,614	407,523	407,590	407,440	407,555	407,302	407,502	1,268
79	10,60	412,500	412,536	412,445	412,511	412,361	412,476	412,223	412,423	1,268
80	10,60	417,581	417,616	417,525	417,591	417,441	417,556	417,302	417,503	1,268
81	10,60	422,504	422,540	422,448	422,515	422,365	422,479	422,225	422,426	1,269
82	10,60	427,583	427,618	427,527	427,593	427,443	427,557	427,302	427,503	1,269
83	10,60	432,508	432,543	432,452	432,518	432,367	432,482	432,227	432,428	1,269
84	10,60	437,584	437,620	437,528	437,594	437,443	437,558	437,303	437,504	1,270
85	10,60	442,511	442,547	442,455	442,521	442,370	442,485	442,229	442,430	1,270
86	10,60	447,586	447,621	447,529	447,596	447,444	447,559	447,303	447,504	1,271
87	10,60	452,515	452,550	452,458	452,524	452,373	452,488	452,231	452,432	1,271
88	10,60	457,588	457,623	457,531	457,597	457,445	457,560	457,303	457,504	1,271
89	10,60	462,518	462,553	462,461	462,527	462,375	462,490	462,232	462,434	1,272
90	10,60	467,589	467,624	467,532	467,598	467,446	467,561	467,303	467,504	1,272
91	10,60	472,521	472,556	472,464	472,530	472,377	472,492	472,234	472,436	1,272
92	10,60	477,590	477,625	477,533	477,599	477,447	477,561	477,303	477,504	1,273
93	10,60	482,524	482,559	482,466	482,532	482,380	482,494	482,235	482,437	1,273
94	10,60	487,592	487,627	487,534	487,600	487,447	487,562	487,302	487,505	1,273
95	10,60	492,527	492,561	492,469	492,534	492,382	492,496	492,237	492,439	1,274
96	10,60	497,593	497,628	497,535	497,601	497,448	497,563	497,302	497,505	1,274
97	10,60	502,529	502,564	502,471	502,537	502,383	502,498	502,238	502,440	1,274
98	10,60	507,594	507,629	507,536	507,602	507,448	507,563	507,302	507,504	1,275
99	10,60	512,532	512,566	512,473	512,539	512,385	512,500	512,239	512,441	1,275
100	10,60	517,595	517,630	517,537	517,602	517,449	517,563	517,302	517,504	1,275

5.26 37,5° pressure angle, module 6

Table 101 — Geometry internal spline, $\alpha = 37{,}5°$, $m = 6$, fillet root, $E_{v\,min} = 9{,}425$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	36,00	28,5607	44,68	42,60	31,83	9,479	9,511	9,559	9,639
7	42,00	33,3208	50,68	48,60	37,63	9,479	9,512	9,561	9,643
8	48,00	38,0810	56,69	54,60	43,48	9,480	9,513	9,563	9,646
9	54,00	42,8411	62,69	60,60	49,37	9,481	9,515	9,565	9,649
10	60,00	47,6012	68,70	66,60	55,29	9,482	9,516	9,567	9,651
11	66,00	52,3613	74,70	72,60	61,22	9,482	9,517	9,568	9,654
12	72,00	57,1214	80,70	78,60	67,16	9,483	9,518	9,570	9,656
13	78,00	61,8816	86,70	84,60	73,12	9,483	9,518	9,571	9,659
14	84,00	66,6417	92,71	90,60	79,08	9,484	9,519	9,572	9,661
15	90,00	71,4018	98,71	96,60	85,04	9,484	9,520	9,574	9,663
16	96,00	76,1619	104,71	102,60	91,01	9,485	9,521	9,575	9,665
17	102,00	80,9220	110,72	108,60	96,99	9,485	9,522	9,576	9,667
18	108,00	85,6822	116,72	114,60	102,96	9,486	9,522	9,577	9,669
19	114,00	90,4423	122,72	120,60	108,94	9,486	9,523	9,578	9,670
20	120,00	95,2024	128,72	126,60	114,93	9,487	9,524	9,579	9,672
21	126,00	99,9625	134,72	132,60	120,91	9,487	9,525	9,581	9,674
22	132,00	104,7226	140,73	138,60	126,89	9,488	9,525	9,582	9,676
23	138,00	109,4828	146,73	144,60	132,88	9,488	9,526	9,583	9,677
24	144,00	114,2429	152,73	150,60	138,87	9,488	9,526	9,584	9,679
25	150,00	119,0030	158,73	156,60	144,86	9,489	9,527	9,585	9,680
26	156,00	123,7631	164,73	162,60	150,85	9,489	9,528	9,585	9,682
27	162,00	128,5232	170,74	168,60	156,84	9,490	9,528	9,586	9,683
28	168,00	133,2834	176,74	174,60	162,83	9,490	9,529	9,587	9,685
29	174,00	138,0435	182,74	180,60	168,82	9,490	9,529	9,588	9,686
30	180,00	142,8036	188,74	186,60	174,81	9,491	9,530	9,589	9,687
31	186,00	147,5637	194,74	192,60	180,81	9,491	9,531	9,590	9,689
32	192,00	152,3238	200,75	198,60	186,80	9,491	9,531	9,591	9,690
33	198,00	157,0840	206,75	204,60	192,79	9,492	9,532	9,592	9,691
34	204,00	161,8441	212,75	210,60	198,79	9,492	9,532	9,592	9,693
35	210,00	166,6042	218,75	216,60	204,78	9,492	9,533	9,593	9,694
36	216,00	171,3643	224,75	222,60	210,78	9,493	9,533	9,594	9,695
37	222,00	176,1244	230,75	228,60	216,77	9,493	9,534	9,595	9,696
38	228,00	180,8846	236,76	234,60	222,77	9,493	9,534	9,595	9,698
39	234,00	185,6447	242,76	240,60	228,76	9,493	9,535	9,596	9,699
40	240,00	190,4048	248,76	246,60	234,76	9,494	9,535	9,597	9,700
41	246,00	195,1649	254,76	252,60	240,75	9,494	9,535	9,598	9,701
42	252,00	199,9250	260,76	258,60	246,75	9,494	9,536	9,598	9,702
43	258,00	204,6852	266,76	264,60	252,75	9,495	9,536	9,599	9,704
44	264,00	209,4453	272,76	270,60	258,74	9,495	9,537	9,600	9,705
45	270,00	214,2054	278,77	276,60	264,74	9,495	9,537	9,600	9,706
46	276,00	218,9655	284,77	282,60	270,74	9,495	9,538	9,601	9,707
47	282,00	223,7256	290,77	288,60	276,73	9,496	9,538	9,602	9,708
48	288,00	228,4858	296,77	294,60	282,73	9,496	9,539	9,602	9,709
49	294,00	233,2459	302,77	300,60	288,73	9,496	9,539	9,603	9,710
50	300,00	238,0060	308,77	306,60	294,73	9,497	9,539	9,604	9,711
51	306,00	242,7661	314,77	312,60	300,72	9,497	9,540	9,604	9,712
52	312,00	247,5262	320,78	318,60	306,72	9,497	9,540	9,605	9,713
53	318,00	252,2864	326,78	324,60	312,72	9,497	9,541	9,606	9,714
54	324,00	257,0465	332,78	330,60	318,72	9,498	9,541	9,606	9,715
55	330,00	261,8066	338,78	336,60	324,71	9,498	9,541	9,607	9,716
56	336,00	266,5667	344,78	342,60	330,71	9,498	9,542	9,608	9,717
57	342,00	271,3268	350,78	348,60	336,71	9,498	9,542	9,608	9,718
58	348,00	276,0870	356,78	354,60	342,71	9,499	9,543	9,609	9,719
59	354,00	280,8471	362,78	360,60	348,71	9,499	9,543	9,609	9,720
60	360,00	285,6072	368,79	366,60	354,70	9,499	9,543	9,610	9,721
61	366,00	290,3673	374,79	372,60	360,70	9,499	9,544	9,611	9,722
62	372,00	295,1274	380,79	378,60	366,70	9,499	9,544	9,611	9,723
63	378,00	299,8876	386,79	384,60	372,70	9,500	9,545	9,612	9,724
64	384,00	304,6477	392,79	390,60	378,70	9,500	9,545	9,612	9,725
65	390,00	309,4078	398,79	396,60	384,70	9,500	9,545	9,613	9,726
66	396,00	314,1679	404,79	402,60	390,69	9,500	9,546	9,614	9,727
67	402,00	318,9280	410,79	408,60	396,69	9,501	9,546	9,614	9,728
68	408,00	323,6882	416,80	414,60	402,69	9,501	9,546	9,615	9,728
69	414,00	328,4483	422,80	420,60	408,69	9,501	9,547	9,615	9,729
70	420,00	333,2084	428,80	426,60	414,69	9,501	9,547	9,616	9,730
71	426,00	337,9685	434,80	432,60	420,69	9,502	9,547	9,616	9,731
72	432,00	342,7286	440,80	438,60	426,69	9,502	9,548	9,617	9,732
73	438,00	347,4888	446,80	444,60	432,69	9,502	9,548	9,617	9,733
74	444,00	352,2489	452,80	450,60	438,68	9,502	9,548	9,618	9,734
75	450,00	357,0090	458,80	456,60	444,68	9,502	9,549	9,618	9,735
76	456,00	361,7691	464,80	462,60	450,68	9,503	9,549	9,619	9,735
77	462,00	366,5292	470,81	468,60	456,68	9,503	9,549	9,620	9,736
78	468,00	371,2894	476,81	474,60	462,68	9,503	9,550	9,620	9,737
79	474,00	376,0495	482,81	480,60	468,68	9,503	9,550	9,621	9,738
80	480,00	380,8096	488,81	486,60	474,68	9,503	9,550	9,621	9,739
81	486,00	385,5697	494,81	492,60	480,68	9,504	9,551	9,622	9,740
82	492,00	390,3298	500,81	498,60	486,68	9,504	9,551	9,622	9,740
83	498,00	395,0900	506,81	504,60	492,68	9,504	9,551	9,623	9,741
84	504,00	399,8501	512,81	510,60	498,67	9,505	9,552	9,624	9,743
85	510,00	404,6102	518,82	516,60	504,67	9,505	9,553	9,624	9,744
86	516,00	409,3703	524,82	522,60	510,67	9,505	9,553	9,625	9,745
87	522,00	414,1304	530,82	528,60	516,67	9,505	9,553	9,626	9,746
88	528,00	418,8906	536,82	534,60	522,67	9,506	9,554	9,626	9,747
89	534,00	423,6507	542,82	540,60	528,67	9,506	9,554	9,627	9,748
90	540,00	428,4108	548,82	546,60	534,67	9,506	9,555	9,627	9,749
91	546,00	433,1709	554,82	552,60	540,67	9,506	9,555	9,628	9,750
92	552,00	437,9310	560,82	558,60	546,67	9,506	9,555	9,629	9,751
93	558,00	442,6912	566,83	564,60	552,67	9,507	9,556	9,629	9,752
94	564,00	447,4513	572,83	570,60	558,67	9,507	9,556	9,630	9,753
95	570,00	452,2114	578,83	576,60	564,67	9,507	9,557	9,630	9,754
96	576,00	456,9715	584,83	582,60	570,66	9,507	9,557	9,631	9,755
97	582,00	461,7316	590,83	588,60	576,66	9,508	9,557	9,632	9,756
98	588,00	466,4918	596,83	594,60	582,66	9,508	9,558	9,632	9,757
99	594,00	471,2519	602,83	600,60	588,66	9,508	9,558	9,633	9,758
100	600,00	476,0120	608,83	606,60	594,66	9,508	9,558	9,633	9,759

Table 102 — Geometry external spline, $\alpha = 37{,}5°$, $m = 6$, fillet root, $S_{v\,max} = 9{,}425$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	36,00	28,5607	41,40	30,63	27,32	9,371	9,339	9,291	9,211
7	42,00	33,3208	47,40	36,43	33,32	9,371	9,338	9,289	9,207
8	48,00	38,0810	53,40	42,28	39,31	9,370	9,337	9,287	9,204
9	54,00	42,8411	59,40	48,17	45,31	9,369	9,335	9,285	9,201
10	60,00	47,6012	65,40	54,09	51,30	9,368	9,334	9,283	9,199
11	66,00	52,3613	71,40	60,02	57,30	9,368	9,333	9,282	9,196
12	72,00	57,1214	77,40	65,96	63,30	9,367	9,332	9,280	9,194
13	78,00	61,8816	83,40	71,92	69,30	9,367	9,332	9,279	9,191
14	84,00	66,6417	89,40	77,88	75,29	9,366	9,331	9,278	9,189
15	90,00	71,4018	95,40	83,84	81,29	9,366	9,330	9,276	9,187
16	96,00	76,1619	101,40	89,81	87,29	9,365	9,329	9,275	9,185
17	102,00	80,9220	107,40	95,79	93,28	9,365	9,328	9,274	9,183
18	108,00	85,6822	113,40	101,76	99,28	9,364	9,328	9,273	9,181
19	114,00	90,4423	119,40	107,74	105,28	9,364	9,327	9,272	9,180
20	120,00	95,2024	125,40	113,73	111,28	9,363	9,326	9,271	9,178
21	126,00	99,9625	131,40	119,71	117,28	9,363	9,325	9,269	9,176
22	132,00	104,7226	137,40	125,69	123,27	9,362	9,325	9,268	9,174
23	138,00	109,4828	143,40	131,68	129,27	9,362	9,324	9,267	9,173
24	144,00	114,2429	149,40	137,67	135,27	9,362	9,324	9,266	9,171
25	150,00	119,0030	155,40	143,66	141,27	9,361	9,323	9,265	9,170
26	156,00	123,7631	161,40	149,65	147,27	9,361	9,322	9,265	9,168
27	162,00	128,5232	167,40	155,64	153,26	9,360	9,322	9,264	9,167
28	168,00	133,2834	173,40	161,63	159,26	9,360	9,321	9,263	9,165
29	174,00	138,0435	179,40	167,62	165,26	9,360	9,321	9,262	9,164
30	180,00	142,8036	185,40	173,61	171,26	9,359	9,320	9,261	9,163
31	186,00	147,5637	191,40	179,61	177,26	9,359	9,319	9,260	9,161
32	192,00	152,3238	197,40	185,60	183,25	9,359	9,319	9,259	9,160
33	198,00	157,0840	203,40	191,59	189,25	9,358	9,318	9,258	9,159
34	204,00	161,8441	209,40	197,59	195,25	9,358	9,318	9,258	9,157
35	210,00	166,6042	215,40	203,58	201,25	9,358	9,317	9,257	9,156
36	216,00	171,3643	221,40	209,58	207,25	9,357	9,317	9,256	9,155
37	222,00	176,1244	227,40	215,57	213,25	9,357	9,316	9,255	9,154
38	228,00	180,8846	233,40	221,57	219,24	9,357	9,316	9,255	9,152
39	234,00	185,6447	239,40	227,56	225,24	9,357	9,315	9,254	9,151
40	240,00	190,4048	245,40	233,56	231,24	9,356	9,315	9,253	9,150
41	246,00	195,1649	251,40	239,55	237,24	9,356	9,315	9,252	9,149
42	252,00	199,9250	257,40	245,55	243,24	9,356	9,314	9,252	9,148
43	258,00	204,6852	263,40	251,55	249,24	9,355	9,314	9,251	9,146
44	264,00	209,4453	269,40	257,54	255,24	9,355	9,313	9,250	9,145
45	270,00	214,2054	275,40	263,54	261,23	9,355	9,313	9,250	9,144
46	276,00	218,9655	281,40	269,54	267,23	9,355	9,312	9,249	9,143
47	282,00	223,7256	287,40	275,53	273,23	9,354	9,312	9,248	9,142
48	288,00	228,4858	293,40	281,53	279,23	9,354	9,311	9,248	9,141
49	294,00	233,2459	299,40	287,53	285,23	9,354	9,311	9,247	9,140
50	300,00	238,0060	305,40	293,53	291,23	9,353	9,311	9,246	9,139
51	306,00	242,7661	311,40	299,52	297,23	9,353	9,310	9,246	9,138
52	312,00	247,5262	317,40	305,52	303,22	9,353	9,310	9,245	9,137
53	318,00	252,2864	323,40	311,52	309,22	9,353	9,309	9,244	9,136
54	324,00	257,0465	329,40	317,52	315,22	9,352	9,309	9,244	9,135
55	330,00	261,8066	335,40	323,51	321,22	9,352	9,309	9,243	9,134
56	336,00	266,5667	341,40	329,51	327,22	9,352	9,308	9,242	9,133
57	342,00	271,3268	347,40	335,51	333,22	9,352	9,308	9,242	9,132
58	348,00	276,0870	353,40	341,51	339,22	9,351	9,307	9,241	9,131
59	354,00	280,8471	359,40	347,51	345,22	9,351	9,307	9,241	9,130
60	360,00	285,6072	365,40	353,50	351,21	9,351	9,307	9,240	9,129
61	366,00	290,3673	371,40	359,50	357,21	9,351	9,306	9,239	9,128
62	372,00	295,1274	377,40	365,50	363,21	9,351	9,306	9,239	9,127
63	378,00	299,8876	383,40	371,50	369,21	9,350	9,305	9,238	9,126
64	384,00	304,6477	389,40	377,50	375,21	9,350	9,305	9,238	9,125
65	390,00	309,4078	395,40	383,50	381,21	9,350	9,305	9,237	9,124
66	396,00	314,1679	401,40	389,49	387,21	9,350	9,304	9,236	9,123
67	402,00	318,9280	407,40	395,49	393,21	9,349	9,304	9,236	9,122
68	408,00	323,6882	413,40	401,49	399,20	9,349	9,304	9,235	9,122
69	414,00	328,4483	419,40	407,49	405,20	9,349	9,303	9,235	9,121
70	420,00	333,2084	425,40	413,49	411,20	9,349	9,303	9,234	9,120
71	426,00	337,9685	431,40	419,49	417,20	9,348	9,303	9,234	9,119
72	432,00	342,7286	437,40	425,49	423,20	9,348	9,302	9,233	9,118
73	438,00	347,4888	443,40	431,49	429,20	9,348	9,302	9,233	9,117
74	444,00	352,2489	449,40	437,48	435,20	9,348	9,302	9,232	9,116
75	450,00	357,0090	455,40	443,48	441,20	9,348	9,301	9,232	9,115
76	456,00	361,7691	461,40	449,48	447,20	9,347	9,301	9,231	9,115
77	462,00	366,5292	467,40	455,48	453,19	9,347	9,301	9,230	9,114
78	468,00	371,2894	473,40	461,48	459,19	9,347	9,300	9,230	9,113
79	474,00	376,0495	479,40	467,48	465,19	9,347	9,300	9,229	9,112
80	480,00	380,8096	485,40	473,48	471,19	9,347	9,300	9,229	9,111
81	486,00	385,5697	491,40	479,48	477,19	9,346	9,299	9,228	9,110
82	492,00	390,3298	497,40	485,48	483,19	9,346	9,299	9,228	9,110
83	498,00	395,0900	503,40	491,48	489,19	9,346	9,299	9,227	9,109
84	504,00	399,8501	509,40	497,47	495,19	9,345	9,298	9,226	9,107
85	510,00	404,6102	515,40	503,47	501,18	9,345	9,297	9,226	9,106
86	516,00	409,3703	521,40	509,47	507,18	9,345	9,297	9,225	9,105
87	522,00	414,1304	527,40	515,47	513,18	9,345	9,297	9,224	9,104
88	528,00	418,8906	533,40	521,47	519,18	9,344	9,296	9,224	9,103
89	534,00	423,6507	539,40	527,47	525,18	9,344	9,296	9,223	9,102
90	540,00	428,4108	545,40	533,47	531,18	9,344	9,295	9,223	9,101
91	546,00	433,1709	551,40	539,47	537,18	9,344	9,295	9,222	9,100
92	552,00	437,9310	557,40	545,47	543,18	9,344	9,295	9,221	9,099
93	558,00	442,6912	563,40	551,47	549,17	9,343	9,294	9,221	9,098
94	564,00	447,4513	569,40	557,47	555,17	9,343	9,294	9,220	9,097
95	570,00	452,2114	575,40	563,47	561,17	9,343	9,293	9,220	9,096
96	576,00	456,9715	581,40	569,46	567,17	9,343	9,293	9,219	9,095
97	582,00	461,7316	587,40	575,46	573,17	9,342	9,293	9,218	9,094
98	588,00	466,4918	593,40	581,46	579,17	9,342	9,292	9,218	9,093
99	594,00	471,2519	599,40	587,46	585,17	9,342	9,292	9,217	9,092
100	600,00	476,0120	605,40	593,46	591,17	9,342	9,292	9,217	9,091

Table 103 — Inspection dimensions internal spline, $\alpha = 37{,}5°$, $m = 6$, $E_{v\,min} = 9{,}425$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	10,60	18,720	18,835	18,753	18,937	18,801	19,082	18,873	19,307	2,675
7	10,60	24,397	24,467	24,417	24,534	24,447	24,633	24,494	24,794	1,948
8	10,60	31,534	31,596	31,552	31,657	31,579	31,748	31,622	31,897	1,787
9	10,60	36,941	36,998	36,958	37,055	36,984	37,139	37,024	37,279	1,653
10	11,20	41,875	41,936	41,894	41,996	41,921	42,086	41,965	42,235	1,746
11	11,20	47,396	47,453	47,414	47,510	47,441	47,596	47,482	47,738	1,649
12	11,20	54,089	54,145	54,107	54,201	54,134	54,286	54,175	54,426	1,611
13	11,20	59,639	59,693	59,657	59,748	59,683	59,830	59,723	59,967	1,560
14	11,20	66,215	66,268	66,233	66,323	66,259	66,405	66,300	66,542	1,541
15	11,20	71,804	71,855	71,822	71,909	71,848	71,991	71,888	72,125	1,508
16	11,20	78,299	78,350	78,317	78,404	78,343	78,485	78,384	78,620	1,497
17	11,20	83,924	83,974	83,942	84,028	83,968	84,108	84,009	84,242	1,474
18	11,20	90,360	90,409	90,378	90,463	90,404	90,544	90,445	90,678	1,466
19	11,20	96,016	96,065	96,035	96,119	96,061	96,199	96,102	96,333	1,450
20	11,80	100,693	100,742	100,712	100,797	100,739	100,880	100,782	101,017	1,479
21	11,80	106,388	106,437	106,407	106,492	106,435	106,575	106,478	106,711	1,463
22	11,80	112,744	112,793	112,763	112,848	112,791	112,930	112,834	113,067	1,457
23	11,80	118,461	118,510	118,481	118,564	118,509	118,647	118,552	118,783	1,444
24	11,80	124,785	124,833	124,805	124,888	124,833	124,971	124,876	125,108	1,440
25	11,80	130,521	130,569	130,541	130,624	130,569	130,706	130,613	130,843	1,430
26	11,80	136,819	136,866	136,839	136,921	136,867	137,004	136,912	137,141	1,426
27	11,80	142,572	142,619	142,592	142,674	142,621	142,756	142,665	142,894	1,418
28	11,80	148,847	148,894	148,867	148,949	148,896	149,032	148,941	149,170	1,415
29	11,80	154,615	154,661	154,635	154,717	154,665	154,800	154,710	154,937	1,408
30	11,80	160,871	160,917	160,892	160,973	160,921	161,056	160,967	161,194	1,406
31	11,80	166,652	166,698	166,673	166,754	166,703	166,837	166,748	166,975	1,400
32	11,80	172,891	172,937	172,912	172,993	172,942	173,076	172,989	173,216	1,398
33	11,80	178,685	178,730	178,706	178,786	178,736	178,870	178,783	179,009	1,393
34	11,80	184,909	184,955	184,931	185,011	184,961	185,095	185,008	185,234	1,391
35	11,80	190,713	190,758	190,735	190,814	190,766	190,899	190,813	191,039	1,387
36	11,80	196,925	196,970	196,947	197,026	196,978	197,111	197,025	197,251	1,385
37	11,80	202,739	202,783	202,761	202,840	202,792	202,924	202,840	203,065	1,381
38	11,80	208,939	208,984	208,961	209,040	208,993	209,125	209,041	209,266	1,380
39	11,80	214,762	214,806	214,784	214,863	214,816	214,948	214,864	215,089	1,377
40	11,80	220,952	220,996	220,974	221,053	221,006	221,138	221,055	221,280	1,376
41	11,80	226,782	226,826	226,805	226,883	226,837	226,969	226,886	227,111	1,372
42	11,80	232,963	233,007	232,986	233,064	233,018	233,150	233,068	233,292	1,371
43	11,80	238,801	238,844	238,824	238,902	238,856	238,988	238,906	239,131	1,369
44	11,80	244,973	245,017	244,996	245,074	245,029	245,160	245,080	245,304	1,368
45	11,80	250,818	250,861	250,841	250,919	250,874	251,005	250,925	251,149	1,365
46	11,80	256,983	257,026	257,006	257,083	257,039	257,170	257,090	257,314	1,365
47	11,80	262,833	262,876	262,857	262,934	262,891	263,021	262,942	263,166	1,362
48	11,80	268,991	269,034	269,015	269,092	269,049	269,179	269,100	269,324	1,362
49	11,80	274,848	274,890	274,872	274,949	274,906	275,036	274,958	275,181	1,360
50	11,80	280,999	281,041	281,023	281,100	281,057	281,187	281,110	281,333	1,359
51	11,80	286,861	286,903	286,885	286,962	286,920	287,050	286,972	287,196	1,357
52	11,80	293,006	293,048	293,031	293,107	293,065	293,195	293,118	293,342	1,357
53	11,80	298,873	298,915	298,898	298,974	298,933	299,062	298,986	299,209	1,355
54	11,80	305,013	305,055	305,038	305,114	305,073	305,202	305,127	305,350	1,354
55	11,80	310,884	310,926	310,909	310,985	310,945	311,074	310,999	311,222	1,353
56	11,80	317,019	317,061	317,044	317,120	317,080	317,209	317,134	317,357	1,352
57	11,80	322,895	322,937	322,920	322,996	322,956	323,085	323,011	323,234	1,351
58	11,80	329,025	329,066	329,050	329,126	329,087	329,216	329,142	329,365	1,350
59	11,80	334,905	334,946	334,930	335,006	334,967	335,096	335,022	335,245	1,349
60	11,80	341,031	341,072	341,056	341,132	341,093	341,222	341,148	341,371	1,349
61	11,80	346,914	346,955	346,940	347,015	346,977	347,105	347,033	347,256	1,347
62	11,80	353,036	353,077	353,062	353,137	353,099	353,227	353,155	353,378	1,347
63	11,80	358,923	358,964	358,949	359,024	358,986	359,115	359,043	359,266	1,346
64	11,80	365,040	365,081	365,067	365,142	365,104	365,233	365,161	365,384	1,346
65	11,80	370,931	370,972	370,957	371,032	370,995	371,123	371,052	371,275	1,344
66	11,80	377,045	377,086	377,072	377,146	377,110	377,238	377,167	377,390	1,344
67	11,80	382,939	382,979	382,965	383,040	383,004	383,132	383,061	383,284	1,343
68	11,80	389,049	389,090	389,076	389,151	389,115	389,243	389,173	389,395	1,343
69	11,80	394,946	394,986	394,973	395,048	395,012	395,139	395,070	395,293	1,342
70	11,80	401,053	401,094	401,081	401,155	401,119	401,247	401,178	401,401	1,342
71	11,80	406,953	406,993	406,980	407,054	407,019	407,147	407,078	407,301	1,341
72	11,80	413,057	413,097	413,085	413,159	413,124	413,252	413,183	413,406	1,340
73	11,80	418,959	418,999	418,987	419,061	419,026	419,154	419,086	419,309	1,340
74	11,80	425,061	425,101	425,089	425,163	425,128	425,256	425,188	425,411	1,339
75	11,80	430,966	431,005	430,994	431,067	431,033	431,161	431,094	431,316	1,338
76	11,80	437,065	437,104	437,093	437,166	437,133	437,260	437,193	437,416	1,338
77	11,80	442,972	443,011	443,000	443,073	443,040	443,167	443,101	443,323	1,337
78	11,80	449,068	449,107	449,096	449,170	449,137	449,264	449,198	449,420	1,337
79	11,80	454,977	455,016	455,006	455,079	455,046	455,173	455,108	455,330	1,337
80	11,80	461,071	461,110	461,100	461,173	461,141	461,268	461,202	461,425	1,336
81	11,80	466,983	467,022	467,011	467,085	467,052	467,179	467,115	467,337	1,336
82	11,80	473,074	473,113	473,103	473,176	473,144	473,271	473,207	473,429	1,335
83	11,80	478,988	479,027	479,017	479,090	479,058	479,185	479,121	479,343	1,335
84	11,80	485,077	485,116	485,106	485,180	485,148	485,276	485,211	485,435	1,335
85	11,80	490,993	491,032	491,022	491,096	491,064	491,192	491,127	491,351	1,334
86	11,80	497,080	497,119	497,109	497,183	497,151	497,279	497,215	497,439	1,334
87	11,80	502,997	503,036	503,027	503,101	503,069	503,197	503,133	503,358	1,333
88	11,80	509,083	509,122	509,112	509,186	509,155	509,283	509,219	509,444	1,333
89	11,80	515,002	515,041	515,032	515,105	515,074	515,202	515,139	515,364	1,333
90	11,80	521,085	521,124	521,115	521,189	521,158	521,286	521,223	521,448	1,332
91	11,80	527,006	527,045	527,037	527,110	527,079	527,208	527,145	527,370	1,332
92	11,80	533,088	533,127	533,118	533,192	533,161	533,290	533,227	533,452	1,332
93	11,80	539,010	539,049	539,041	539,115	539,084	539,213	539,150	539,376	1,331
94	11,80	545,090	545,129	545,121	545,195	545,164	545,293	545,230	545,456	1,331
95	11,80	551,015	551,053	551,045	551,119	551,089	551,217	551,155	551,381	1,331
96	11,80	557,093	557,131	557,124	557,197	557,167	557,296	557,234	557,461	1,330
97	11,80	563,018	563,057	563,049	563,123	563,094	563,222	563,160	563,387	1,330
98	11,80	569,095	569,134	569,126	569,200	569,170	569,299	569,237	569,465	1,330
99	11,80	575,022	575,061	575,053	575,127	575,098	575,227	575,165	575,393	1,329
100	11,80	581,097	581,136	581,129	581,202	581,173	581,302	581,241	581,468	1,329

Table 104 — Inspection dimensions external spline, $\alpha = 37{,}5°$, $m = 6$, $S_{v\,max} = 9{,}425$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	16,00	63,734	63,767	63,702	63,758	63,654	63,744	63,574	63,722	0,992
7	15,00	66,307	66,340	66,274	66,331	66,225	66,316	66,143	66,294	1,001
8	15,00	73,752	73,787	73,717	73,777	73,665	73,761	73,579	73,737	1,044
9	14,00	76,551	76,587	76,515	76,576	76,462	76,560	76,373	76,535	1,061
10	14,00	83,591	83,628	83,555	83,617	83,499	83,600	83,407	83,574	1,090
11	14,00	88,887	88,924	88,850	88,912	88,794	88,895	88,700	88,868	1,090
12	14,00	95,715	95,752	95,676	95,740	95,619	95,722	95,522	95,694	1,112
13	13,20	99,199	99,237	99,159	99,224	99,100	99,206	99,001	99,177	1,128
14	13,20	105,868	105,906	105,827	105,893	105,767	105,874	105,665	105,844	1,144
15	13,20	111,360	111,399	111,319	111,385	111,258	111,366	111,156	111,335	1,145
16	13,20	117,931	117,969	117,889	117,956	117,827	117,936	117,722	117,904	1,158
17	13,20	123,485	123,524	123,443	123,510	123,380	123,489	123,275	123,458	1,160
18	13,20	129,982	130,021	129,939	130,007	129,875	129,986	129,768	129,953	1,170
19	13,20	135,585	135,624	135,542	135,609	135,477	135,588	135,370	135,555	1,171
20	13,20	142,025	142,064	141,981	142,049	141,916	142,028	141,806	141,994	1,180
21	13,20	147,667	147,706	147,623	147,691	147,557	147,669	147,446	147,635	1,181
22	13,20	154,061	154,101	154,017	154,085	153,950	154,063	153,838	154,028	1,189
23	13,20	159,735	159,774	159,690	159,758	159,623	159,736	159,510	159,700	1,190
24	13,20	166,092	166,132	166,047	166,116	165,979	166,092	165,865	166,056	1,196
25	12,50	170,034	170,074	169,988	170,057	169,918	170,033	169,803	169,997	1,208
26	12,50	176,356	176,395	176,309	176,379	176,239	176,354	176,122	176,317	1,213
27	12,50	182,078	182,118	182,031	182,101	181,960	182,076	181,843	182,038	1,214
28	12,50	188,374	188,414	188,327	188,397	188,256	188,372	188,137	188,333	1,218
29	12,50	194,116	194,156	194,068	194,138	193,997	194,113	193,877	194,074	1,219
30	12,50	200,390	200,430	200,342	200,412	200,270	200,387	200,150	200,347	1,223
31	12,50	206,149	206,189	206,101	206,171	206,028	206,145	205,907	206,105	1,224
32	12,50	212,405	212,445	212,356	212,426	212,283	212,400	212,161	212,360	1,227
33	12,50	218,178	218,218	218,129	218,199	218,056	218,173	217,933	218,132	1,228
34	12,50	224,417	224,457	224,368	224,439	224,294	224,412	224,171	224,370	1,231
35	12,50	230,204	230,244	230,154	230,225	230,080	230,198	229,956	230,156	1,231
36	12,50	236,429	236,469	236,379	236,449	236,304	236,422	236,179	236,380	1,234
37	12,50	242,227	242,267	242,177	242,247	242,102	242,220	241,976	242,177	1,235
38	12,50	248,439	248,479	248,389	248,459	248,313	248,431	248,186	248,388	1,238
39	12,50	254,248	254,287	254,197	254,268	254,121	254,239	253,994	254,196	1,238
40	12,50	260,449	260,488	260,398	260,468	260,321	260,439	260,193	260,395	1,240
41	12,50	266,267	266,306	266,215	266,286	266,138	266,257	266,010	266,212	1,241
42	12,50	272,457	272,497	272,405	272,476	272,328	272,447	272,199	272,402	1,243
43	12,50	278,284	278,323	278,232	278,302	278,154	278,273	278,024	278,228	1,243
44	12,50	284,465	284,504	284,413	284,483	284,334	284,453	284,204	284,408	1,245
45	12,50	290,299	290,338	290,247	290,317	290,168	290,287	290,037	290,241	1,246
46	12,50	296,472	296,511	296,419	296,490	296,340	296,459	296,208	296,413	1,248
47	12,50	302,313	302,352	302,260	302,331	302,181	302,300	302,049	302,253	1,248
48	12,50	308,478	308,518	308,425	308,496	308,345	308,465	308,212	308,418	1,250
49	12,50	314,326	314,365	314,273	314,343	314,193	314,312	314,059	314,265	1,250
50	12,50	320,484	320,523	320,431	320,501	320,350	320,470	320,216	320,422	1,252
51	12,50	326,338	326,377	326,284	326,355	326,204	326,323	326,069	326,275	1,252
52	12,50	332,490	332,529	332,436	332,506	332,355	332,474	332,219	332,425	1,253
53	12,50	338,349	338,388	338,295	338,366	338,214	338,333	338,078	338,284	1,254
54	12,50	344,495	344,534	344,440	344,511	344,359	344,478	344,222	344,429	1,255
55	12,50	350,360	350,398	350,305	350,375	350,223	350,342	350,086	350,292	1,255
56	12,50	356,500	356,538	356,445	356,515	356,362	356,482	356,225	356,432	1,257
57	12,50	362,369	362,408	362,314	362,384	362,231	362,351	362,093	362,300	1,257
58	12,50	368,504	368,543	368,449	368,519	368,365	368,486	368,227	368,434	1,258
59	12,50	374,378	374,416	374,322	374,393	374,239	374,359	374,100	374,307	1,258
60	12,50	380,508	380,547	380,452	380,523	380,369	380,489	380,229	380,437	1,259
61	12,50	386,386	386,424	386,330	386,400	386,246	386,366	386,106	386,314	1,260
62	12,50	392,512	392,550	392,456	392,526	392,371	392,491	392,230	392,439	1,261
63	12,50	398,394	398,432	398,337	398,408	398,253	398,373	398,111	398,320	1,261
64	12,50	404,516	404,554	404,459	404,529	404,374	404,494	404,232	404,441	1,262
65	12,50	410,401	410,439	410,344	410,414	410,259	410,379	410,117	410,325	1,262
66	12,50	416,519	416,557	416,462	416,532	416,376	416,496	416,233	416,442	1,263
67	12,50	422,408	422,446	422,351	422,421	422,265	422,385	422,121	422,331	1,263
68	12,50	428,522	428,560	428,465	428,535	428,378	428,499	428,235	428,444	1,264
69	12,50	434,414	434,452	434,357	434,427	434,270	434,390	434,126	434,335	1,264
70	12,50	440,525	440,563	440,467	440,537	440,380	440,501	440,236	440,445	1,265
71	12,50	446,420	446,458	446,362	446,432	446,275	446,395	446,130	446,340	1,265
72	12,50	452,528	452,565	452,470	452,539	452,382	452,503	452,236	452,446	1,266
73	12,50	458,426	458,463	458,367	458,437	458,280	458,400	458,134	458,344	1,266
74	12,50	464,530	464,568	464,472	464,542	464,384	464,504	464,237	464,447	1,267
75	12,50	470,431	470,468	470,372	470,442	470,284	470,405	470,137	470,347	1,267
76	12,50	476,533	476,570	476,474	476,544	476,385	476,506	476,238	476,448	1,268
77	12,50	482,436	482,473	482,377	482,447	482,288	482,409	482,140	482,351	1,268
78	12,50	488,535	488,572	488,476	488,545	488,387	488,507	488,238	488,449	1,269
79	12,50	494,441	494,478	494,381	494,451	494,292	494,413	494,143	494,354	1,269
80	12,50	500,537	500,574	500,478	500,547	500,388	500,508	500,239	500,450	1,270
81	12,50	506,445	506,482	506,386	506,455	506,296	506,416	506,146	506,357	1,270
82	12,50	512,539	512,576	512,479	512,549	512,389	512,510	512,239	512,450	1,270
83	12,50	518,450	518,487	518,390	518,459	518,299	518,420	518,149	518,360	1,271
84	12,50	524,541	524,578	524,480	524,550	524,389	524,511	524,238	524,451	1,271
85	12,50	530,453	530,490	530,393	530,463	530,301	530,423	530,149	530,362	1,271
86	12,50	536,543	536,580	536,482	536,552	536,390	536,512	536,237	536,451	1,272
87	12,50	542,457	542,494	542,396	542,466	542,304	542,426	542,151	542,365	1,272
88	12,50	548,544	548,581	548,483	548,553	548,391	548,513	548,237	548,451	1,273
89	12,50	554,461	554,498	554,399	554,469	554,307	554,429	554,152	554,367	1,273
90	12,50	560,546	560,583	560,484	560,554	560,391	560,513	560,237	560,452	1,273
91	12,50	566,464	566,501	566,402	566,472	566,309	566,431	566,154	566,369	1,273
92	12,50	572,547	572,584	572,485	572,555	572,392	572,514	572,236	572,452	1,274
93	12,50	578,467	578,504	578,405	578,475	578,311	578,434	578,155	578,371	1,274
94	12,50	584,549	584,586	584,486	584,556	584,392	584,515	584,235	584,452	1,274
95	12,50	590,470	590,507	590,407	590,478	590,313	590,436	590,156	590,373	1,275
96	12,50	596,550	596,587	596,487	596,557	596,392	596,515	596,235	596,452	1,275
97	12,50	602,473	602,510	602,410	602,481	602,315	602,438	602,157	602,374	1,275
98	12,50	608,551	608,588	608,488	608,558	608,393	608,516	608,234	608,452	1,276
99	12,50	614,476	614,513	614,412	614,483	614,317	614,440	614,158	614,376	1,276
100	12,50	620,552	620,589	620,489	620,559	620,393	620,516	620,233	620,451	1,276

5.27 37,5° pressure angle, module 8

Table 105 — Geometry internal spline, $\alpha = 37{,}5°$, $m = 8$, fillet root, $E_{v\,min} = 12{,}566$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	48,00	38,0810	59,51	56,80	42,44	12,625	12,661	12,714	12,803
7	56,00	44,4278	67,51	64,80	50,17	12,626	12,662	12,716	12,807
8	64,00	50,7746	75,52	72,80	57,98	12,627	12,664	12,718	12,810
9	72,00	57,1214	83,52	80,80	65,83	12,628	12,665	12,720	12,813
10	80,00	63,4683	91,53	88,80	73,72	12,629	12,666	12,722	12,816
11	88,00	69,8151	99,53	96,80	81,63	12,629	12,667	12,724	12,819
12	96,00	76,1619	107,53	104,80	89,55	12,630	12,668	12,726	12,822
13	104,00	82,5087	115,54	112,80	97,49	12,631	12,669	12,727	12,824
14	112,00	88,8556	123,54	120,80	105,44	12,631	12,670	12,729	12,827
15	120,00	95,2024	131,54	128,80	113,39	12,632	12,671	12,730	12,829
16	128,00	101,5492	139,55	136,80	121,35	12,632	12,672	12,732	12,831
17	136,00	107,8961	147,55	144,80	129,32	12,633	12,673	12,733	12,833
18	144,00	114,2429	155,55	152,80	137,29	12,633	12,674	12,734	12,836
19	152,00	120,5897	163,55	160,80	145,26	12,634	12,675	12,736	12,838
20	160,00	126,9365	171,56	168,80	153,23	12,634	12,675	12,737	12,840
21	168,00	133,2834	179,56	176,80	161,21	12,635	12,676	12,738	12,841
22	176,00	139,6302	187,56	184,80	169,19	12,635	12,677	12,739	12,843
23	184,00	145,9770	195,56	192,80	177,17	12,636	12,678	12,740	12,845
24	192,00	152,3238	203,57	200,80	185,16	12,636	12,678	12,742	12,847
25	200,00	158,6707	211,57	208,80	193,14	12,637	12,679	12,743	12,849
26	208,00	165,0175	219,57	216,80	201,13	12,637	12,680	12,744	12,850
27	216,00	171,3643	227,57	224,80	209,12	12,638	12,680	12,745	12,852
28	224,00	177,7111	235,57	232,80	217,11	12,638	12,681	12,746	12,854
29	232,00	184,0580	243,58	240,80	225,09	12,638	12,682	12,747	12,855
30	240,00	190,4048	251,58	248,80	233,08	12,639	12,682	12,748	12,857
31	248,00	196,7516	259,58	256,80	241,07	12,639	12,683	12,749	12,858
32	256,00	203,0985	267,58	264,80	249,07	12,639	12,684	12,750	12,860
33	264,00	209,4453	275,59	272,80	257,06	12,640	12,684	12,751	12,861
34	272,00	215,7921	283,59	280,80	265,05	12,640	12,685	12,752	12,863
35	280,00	222,1389	291,59	288,80	273,04	12,641	12,685	12,752	12,864
36	288,00	228,4858	299,59	296,80	281,04	12,641	12,686	12,753	12,866
37	296,00	234,8326	307,59	304,80	289,03	12,641	12,686	12,754	12,867
38	304,00	241,1794	315,59	312,80	297,02	12,642	12,687	12,755	12,869
39	312,00	247,5262	323,60	320,80	305,02	12,642	12,688	12,756	12,870
40	320,00	253,8731	331,60	328,80	313,01	12,642	12,688	12,757	12,871
41	328,00	260,2199	339,60	336,80	321,01	12,643	12,689	12,758	12,873
42	336,00	266,5667	347,60	344,80	329,00	12,643	12,689	12,758	12,874
43	344,00	272,9135	355,60	352,80	337,00	12,643	12,690	12,759	12,875
44	352,00	279,2604	363,60	360,80	344,99	12,644	12,690	12,760	12,877
45	360,00	285,6072	371,61	368,80	352,99	12,644	12,691	12,761	12,878
46	368,00	291,9540	379,61	376,80	360,98	12,644	12,691	12,762	12,879
47	376,00	298,3009	387,61	384,80	368,98	12,645	12,692	12,762	12,880
48	384,00	304,6477	395,61	392,80	376,98	12,645	12,692	12,763	12,882
49	392,00	310,9945	403,61	400,80	384,97	12,645	12,693	12,764	12,883
50	400,00	317,3413	411,61	408,80	392,97	12,646	12,693	12,765	12,884
51	408,00	323,6882	419,62	416,80	400,96	12,646	12,694	12,766	12,885
52	416,00	330,0350	427,62	424,80	408,96	12,646	12,694	12,766	12,886
53	424,00	336,3818	435,62	432,80	416,96	12,646	12,695	12,767	12,888
54	432,00	342,7286	443,62	440,80	424,96	12,647	12,695	12,768	12,889
55	440,00	349,0755	451,62	448,80	432,95	12,647	12,696	12,768	12,890
56	448,00	355,4223	459,62	456,80	440,95	12,647	12,696	12,769	12,891
57	456,00	361,7691	467,63	464,80	448,95	12,648	12,696	12,770	12,892
58	464,00	368,1159	475,63	472,80	456,94	12,648	12,697	12,771	12,893
59	472,00	374,4628	483,63	480,80	464,94	12,648	12,697	12,771	12,894
60	480,00	380,8096	491,63	488,80	472,94	12,648	12,698	12,772	12,896
61	488,00	387,1564	499,63	496,80	480,94	12,649	12,698	12,773	12,897
62	496,00	393,5033	507,63	504,80	488,93	12,649	12,699	12,773	12,898
63	504,00	399,8501	515,64	512,80	496,93	12,650	12,700	12,775	12,900
64	512,00	406,1969	523,64	520,80	504,93	12,650	12,700	12,776	12,901
65	520,00	412,5437	531,64	528,80	512,93	12,650	12,701	12,776	12,903
66	528,00	418,8906	539,64	536,80	520,93	12,650	12,701	12,777	12,904
67	536,00	425,2374	547,64	544,80	528,92	12,651	12,702	12,778	12,905
68	544,00	431,5842	555,64	552,80	536,92	12,651	12,702	12,779	12,906
69	552,00	437,9310	563,65	560,80	544,92	12,651	12,703	12,780	12,908
70	560,00	444,2779	571,65	568,80	552,92	12,652	12,703	12,780	12,909
71	568,00	450,6247	579,65	576,80	560,92	12,652	12,704	12,781	12,910
72	576,00	456,9715	587,65	584,80	568,92	12,652	12,704	12,782	12,912
73	584,00	463,3184	595,65	592,80	576,91	12,653	12,705	12,783	12,913
74	592,00	469,6652	603,65	600,80	584,91	12,653	12,705	12,784	12,914
75	600,00	476,0120	611,66	608,80	592,91	12,653	12,706	12,784	12,915
76	608,00	482,3588	619,66	616,80	600,91	12,654	12,706	12,785	12,917
77	616,00	488,7057	627,66	624,80	608,91	12,654	12,707	12,786	12,918
78	624,00	495,0525	635,66	632,80	616,91	12,654	12,707	12,787	12,919
79	632,00	501,3993	643,66	640,80	624,91	12,655	12,708	12,788	12,921
80	640,00	507,7461	651,66	648,80	632,90	12,655	12,708	12,788	12,922
81	648,00	514,0930	659,67	656,80	640,90	12,655	12,709	12,789	12,923
82	656,00	520,4398	667,67	664,80	648,90	12,656	12,709	12,790	12,924
83	664,00	526,7866	675,67	672,80	656,90	12,656	12,710	12,791	12,926
84	672,00	533,1334	683,67	680,80	664,90	12,656	12,710	12,792	12,927
85	680,00	539,4803	691,67	688,80	672,90	12,657	12,711	12,792	12,928
86	688,00	545,8271	699,67	696,80	680,90	12,657	12,711	12,793	12,929
87	696,00	552,1739	707,68	704,80	688,90	12,657	12,712	12,794	12,931
88	704,00	558,5208	715,68	712,80	696,89	12,658	12,712	12,795	12,932
89	712,00	564,8676	723,68	720,80	704,89	12,658	12,713	12,796	12,933
90	720,00	571,2144	731,68	728,80	712,89	12,658	12,713	12,796	12,935
91	728,00	577,5612	739,68	736,80	720,89	12,658	12,714	12,797	12,936
92	736,00	583,9081	747,68	744,80	728,89	12,659	12,714	12,798	12,937
93	744,00	590,2549	755,69	752,80	736,89	12,659	12,715	12,799	12,938
94	752,00	596,6017	763,69	760,80	744,89	12,659	12,715	12,800	12,940
95	760,00	602,9485	771,69	768,80	752,89	12,660	12,716	12,800	12,941
96	768,00	609,2954	779,69	776,80	760,89	12,660	12,717	12,801	12,942
97	776,00	615,6422	787,69	784,80	768,89	12,660	12,717	12,802	12,944
98	784,00	621,9890	795,69	792,80	776,88	12,661	12,718	12,803	12,945
99	792,00	628,3358	803,70	800,80	784,88	12,661	12,718	12,804	12,946
100	800,00	634,6827	811,70	808,80	792,88	12,661	12,719	12,804	12,947

Table 106 — Geometry external spline, $\alpha = 37{,}5°$, $m = 8$, fillet root, $S_{v\,max} = 12{,}566$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	48,00	38,0810	55,20	40,84	36,49	12,507	12,471	12,418	12,329
7	56,00	44,4278	63,20	48,57	44,49	12,506	12,470	12,416	12,325
8	64,00	50,7746	71,20	56,38	52,48	12,505	12,468	12,414	12,322
9	72,00	57,1214	79,20	64,23	60,48	12,504	12,467	12,412	12,319
10	80,00	63,4683	87,20	72,12	68,47	12,503	12,466	12,410	12,316
11	88,00	69,8151	95,20	80,03	76,47	12,503	12,465	12,408	12,313
12	96,00	76,1619	103,20	87,95	84,47	12,502	12,464	12,406	12,310
13	104,00	82,5087	111,20	95,89	92,46	12,501	12,463	12,405	12,308
14	112,00	88,8556	119,20	103,84	100,46	12,501	12,462	12,403	12,305
15	120,00	95,2024	127,20	111,79	108,46	12,500	12,461	12,402	12,303
16	128,00	101,5492	135,20	119,75	116,45	12,500	12,460	12,400	12,301
17	136,00	107,8961	143,20	127,72	124,45	12,499	12,459	12,399	12,299
18	144,00	114,2429	151,20	135,69	132,45	12,499	12,458	12,398	12,296
19	152,00	120,5897	159,20	143,66	140,45	12,498	12,457	12,396	12,294
20	160,00	126,9365	167,20	151,63	148,44	12,498	12,457	12,395	12,292
21	168,00	133,2834	175,20	159,61	156,44	12,497	12,456	12,394	12,291
22	176,00	139,6302	183,20	167,59	164,44	12,497	12,455	12,393	12,289
23	184,00	145,9770	191,20	175,57	172,44	12,496	12,454	12,392	12,287
24	192,00	152,3238	199,20	183,56	180,43	12,496	12,454	12,390	12,285
25	200,00	158,6707	207,20	191,54	188,43	12,495	12,453	12,389	12,283
26	208,00	165,0175	215,20	199,53	196,43	12,495	12,452	12,388	12,282
27	216,00	171,3643	223,20	207,52	204,43	12,494	12,452	12,387	12,280
28	224,00	177,7111	231,20	215,51	212,43	12,494	12,451	12,386	12,278
29	232,00	184,0580	239,20	223,49	220,42	12,494	12,450	12,385	12,277
30	240,00	190,4048	247,20	231,48	228,42	12,493	12,450	12,384	12,275
31	248,00	196,7516	255,20	239,47	236,42	12,493	12,449	12,383	12,274
32	256,00	203,0985	263,20	247,47	244,42	12,493	12,448	12,382	12,272
33	264,00	209,4453	271,20	255,46	252,41	12,492	12,448	12,381	12,271
34	272,00	215,7921	279,20	263,45	260,41	12,492	12,447	12,380	12,269
35	280,00	222,1389	287,20	271,44	268,41	12,491	12,447	12,380	12,268
36	288,00	228,4858	295,20	279,44	276,41	12,491	12,446	12,379	12,266
37	296,00	234,8326	303,20	287,43	284,41	12,491	12,446	12,378	12,265
38	304,00	241,1794	311,20	295,42	292,41	12,490	12,445	12,377	12,263
39	312,00	247,5262	319,20	303,42	300,40	12,490	12,444	12,376	12,262
40	320,00	253,8731	327,20	311,41	308,40	12,490	12,444	12,375	12,261
41	328,00	260,2199	335,20	319,41	316,40	12,489	12,443	12,374	12,259
42	336,00	266,5667	343,20	327,40	324,40	12,489	12,443	12,374	12,258
43	344,00	272,9135	351,20	335,40	332,40	12,489	12,442	12,373	12,257
44	352,00	279,2604	359,20	343,39	340,40	12,488	12,442	12,372	12,255
45	360,00	285,6072	367,20	351,39	348,39	12,488	12,441	12,371	12,254
46	368,00	291,9540	375,20	359,38	356,39	12,488	12,441	12,370	12,253
47	376,00	298,3009	383,20	367,38	364,39	12,487	12,440	12,370	12,252
48	384,00	304,6477	391,20	375,38	372,39	12,487	12,440	12,369	12,250
49	392,00	310,9945	399,20	383,37	380,39	12,487	12,439	12,368	12,249
50	400,00	317,3413	407,20	391,37	388,39	12,486	12,439	12,367	12,248
51	408,00	323,6882	415,20	399,36	396,38	12,486	12,438	12,366	12,247
52	416,00	330,0350	423,20	407,36	404,38	12,486	12,438	12,366	12,246
53	424,00	336,3818	431,20	415,36	412,38	12,486	12,437	12,365	12,244
54	432,00	342,7286	439,20	423,36	420,38	12,485	12,437	12,364	12,243
55	440,00	349,0755	447,20	431,35	428,38	12,485	12,436	12,364	12,242
56	448,00	355,4223	455,20	439,35	436,38	12,485	12,436	12,363	12,241
57	456,00	361,7691	463,20	447,35	444,37	12,484	12,436	12,362	12,240
58	464,00	368,1159	471,20	455,34	452,37	12,484	12,435	12,361	12,239
59	472,00	374,4628	479,20	463,34	460,37	12,484	12,435	12,361	12,238
60	480,00	380,8096	487,20	471,34	468,37	12,484	12,434	12,360	12,236
61	488,00	387,1564	495,20	479,34	476,37	12,483	12,434	12,359	12,235
62	496,00	393,5033	503,20	487,33	484,37	12,483	12,433	12,359	12,234
63	504,00	399,8501	511,20	495,33	492,36	12,482	12,432	12,357	12,232
64	512,00	406,1969	519,20	503,33	500,36	12,482	12,432	12,356	12,231
65	520,00	412,5437	527,20	511,33	508,36	12,482	12,431	12,356	12,229
66	528,00	418,8906	535,20	519,33	516,36	12,482	12,431	12,355	12,228
67	536,00	425,2374	543,20	527,32	524,36	12,481	12,430	12,354	12,227
68	544,00	431,5842	551,20	535,32	532,36	12,481	12,430	12,353	12,226
69	552,00	437,9310	559,20	543,32	540,35	12,481	12,429	12,352	12,224
70	560,00	444,2779	567,20	551,32	548,35	12,480	12,429	12,352	12,223
71	568,00	450,6247	575,20	559,32	556,35	12,480	12,428	12,351	12,222
72	576,00	456,9715	583,20	567,32	564,35	12,480	12,428	12,350	12,220
73	584,00	463,3184	591,20	575,31	572,35	12,479	12,427	12,349	12,219
74	592,00	469,6652	599,20	583,31	580,35	12,479	12,427	12,348	12,218
75	600,00	476,0120	607,20	591,31	588,34	12,479	12,426	12,348	12,217
76	608,00	482,3588	615,20	599,31	596,34	12,478	12,426	12,347	12,215
77	616,00	488,7057	623,20	607,31	604,34	12,478	12,425	12,346	12,214
78	624,00	495,0525	631,20	615,31	612,34	12,478	12,425	12,345	12,213
79	632,00	501,3993	639,20	623,31	620,34	12,477	12,424	12,344	12,211
80	640,00	507,7461	647,20	631,30	628,34	12,477	12,424	12,344	12,210
81	648,00	514,0930	655,20	639,30	636,33	12,477	12,423	12,343	12,209
82	656,00	520,4398	663,20	647,30	644,33	12,476	12,423	12,342	12,208
83	664,00	526,7866	671,20	655,30	652,33	12,476	12,422	12,341	12,206
84	672,00	533,1334	679,20	663,30	660,33	12,476	12,422	12,340	12,205
85	680,00	539,4803	687,20	671,30	668,33	12,475	12,421	12,340	12,204
86	688,00	545,8271	695,20	679,30	676,33	12,475	12,421	12,339	12,203
87	696,00	552,1739	703,20	687,30	684,32	12,475	12,420	12,338	12,201
88	704,00	558,5208	711,20	695,29	692,32	12,474	12,420	12,337	12,200
89	712,00	564,8676	719,20	703,29	700,32	12,474	12,419	12,336	12,199
90	720,00	571,2144	727,20	711,29	708,32	12,474	12,419	12,336	12,197
91	728,00	577,5612	735,20	719,29	716,32	12,474	12,418	12,335	12,196
92	736,00	583,9081	743,20	727,29	724,32	12,473	12,418	12,334	12,195
93	744,00	590,2549	751,20	735,29	732,31	12,473	12,417	12,333	12,194
94	752,00	596,6017	759,20	743,29	740,31	12,473	12,417	12,332	12,192
95	760,00	602,9485	767,20	751,29	748,31	12,472	12,416	12,332	12,191
96	768,00	609,2954	775,20	759,29	756,31	12,472	12,415	12,331	12,190
97	776,00	615,6422	783,20	767,29	764,31	12,472	12,415	12,330	12,188
98	784,00	621,9890	791,20	775,28	772,31	12,471	12,414	12,329	12,187
99	792,00	628,3358	799,20	783,28	780,30	12,471	12,414	12,328	12,186
100	800,00	634,6827	807,20	791,28	788,30	12,471	12,413	12,328	12,185

Table 107 — Inspection dimensions internal spline, $\alpha = 37{,}5°$, $m = 8$, $E_{v\,min} = 12{,}566$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	14,00	25,611	25,715	25,642	25,813	25,688	25,955	25,759	26,182	2,486
7	14,00	32,997	33,069	33,019	33,140	33,052	33,246	33,103	33,419	1,900
8	14,00	42,478	42,545	42,499	42,610	42,530	42,709	42,578	42,871	1,761
9	15,00	46,405	46,476	46,428	46,548	46,461	46,654	46,514	46,830	1,883
10	15,00	55,607	55,673	55,629	55,741	55,661	55,842	55,711	56,008	1,769
11	15,00	62,978	63,040	62,999	63,104	63,030	63,200	63,078	63,359	1,666
12	15,00	71,907	71,967	71,928	72,030	71,958	72,124	72,006	72,280	1,624
13	15,00	79,311	79,369	79,332	79,431	79,362	79,523	79,409	79,675	1,570
14	15,00	88,082	88,139	88,102	88,200	88,132	88,291	88,179	88,443	1,550
15	15,00	95,536	95,592	95,556	95,652	95,586	95,742	95,633	95,892	1,516
16	15,00	104,198	104,253	104,218	104,313	104,248	104,403	104,295	104,553	1,503
17	15,00	111,699	111,753	111,720	111,813	111,750	111,903	111,797	112,051	1,480
18	15,00	120,281	120,334	120,302	120,394	120,332	120,484	120,379	120,633	1,472
19	15,00	127,825	127,877	127,846	127,937	127,876	128,026	127,924	128,174	1,455
20	15,00	136,343	136,396	136,365	136,456	136,396	136,545	136,444	136,694	1,449
21	16,00	141,079	141,133	141,101	141,194	141,133	141,286	141,183	141,438	1,476
22	16,00	149,556	149,609	149,578	149,670	149,611	149,762	149,660	149,915	1,469
23	16,00	157,183	157,236	157,206	157,297	157,238	157,389	157,288	157,541	1,455
24	16,00	165,617	165,669	165,640	165,730	165,672	165,822	165,723	165,975	1,450
25	16,00	173,269	173,320	173,292	173,382	173,325	173,473	173,375	173,626	1,439
26	16,00	181,667	181,718	181,690	181,779	181,723	181,871	181,774	182,025	1,435
27	16,00	189,341	189,391	189,364	189,453	189,397	189,545	189,449	189,698	1,426
28	16,00	197,708	197,759	197,732	197,820	197,766	197,913	197,817	198,066	1,423
29	16,00	205,402	205,451	205,425	205,513	205,459	205,605	205,511	205,759	1,416
30	16,00	213,744	213,793	213,767	213,855	213,802	213,948	213,854	214,102	1,413
31	16,00	221,454	221,503	221,478	221,565	221,513	221,658	221,566	221,812	1,407
32	16,00	229,774	229,823	229,798	229,885	229,833	229,978	229,886	230,133	1,404
33	16,00	237,500	237,549	237,524	237,611	237,559	237,704	237,613	237,859	1,399
34	16,00	245,800	245,849	245,825	245,911	245,860	246,005	245,914	246,160	1,397
35	16,00	253,540	253,589	253,565	253,651	253,601	253,745	253,655	253,901	1,392
36	16,00	261,823	261,871	261,848	261,934	261,884	262,028	261,939	262,184	1,391
37	16,00	269,576	269,624	269,601	269,687	269,637	269,781	269,693	269,938	1,387
38	16,00	277,843	277,891	277,869	277,954	277,905	278,049	277,961	278,206	1,385
39	16,00	285,608	285,655	285,634	285,719	285,670	285,813	285,727	285,971	1,382
40	16,00	293,862	293,909	293,888	293,972	293,925	294,067	293,981	294,225	1,380
41	16,00	301,637	301,684	301,663	301,747	301,700	301,842	301,757	302,001	1,377
42	16,00	309,878	309,925	309,904	309,989	309,942	310,084	310,000	310,243	1,376
43	16,00	317,663	317,710	317,689	317,773	317,727	317,869	317,785	318,028	1,373
44	16,00	325,893	325,939	325,920	326,003	325,958	326,099	326,016	326,259	1,372
45	16,00	333,687	333,733	333,713	333,797	333,752	333,893	333,811	334,054	1,370
46	16,00	341,906	341,952	341,933	342,017	341,972	342,113	342,031	342,274	1,369
47	16,00	349,708	349,754	349,736	349,819	349,775	349,916	349,834	350,077	1,366
48	16,00	357,919	357,964	357,946	358,029	357,985	358,126	358,045	358,288	1,366
49	16,00	365,728	365,774	365,756	365,839	365,795	365,936	365,856	366,098	1,363
50	16,00	373,930	373,975	373,958	374,041	373,998	374,138	374,058	374,301	1,363
51	16,00	381,747	381,792	381,775	381,857	381,815	381,955	381,876	382,118	1,361
52	16,00	389,940	389,986	389,969	390,051	390,009	390,149	390,071	390,313	1,360
53	16,00	397,764	397,808	397,792	397,874	397,833	397,972	397,895	398,136	1,358
54	16,00	405,950	405,995	405,979	406,061	406,020	406,159	406,082	406,324	1,358
55	16,00	413,779	413,824	413,808	413,890	413,849	413,989	413,912	414,154	1,356
56	16,00	421,959	422,004	421,988	422,070	422,029	422,169	422,093	422,334	1,356
57	16,00	429,794	429,838	429,823	429,905	429,865	430,004	429,928	430,170	1,354
58	16,00	437,967	438,012	437,997	438,078	438,039	438,178	438,103	438,344	1,354
59	16,00	445,808	445,852	445,837	445,918	445,879	446,018	445,944	446,185	1,352
60	16,00	453,975	454,019	454,005	454,086	454,047	454,186	454,112	454,353	1,352
61	16,00	461,820	461,864	461,850	461,931	461,893	462,032	461,958	462,199	1,350
62	16,00	469,983	470,026	470,013	470,093	470,056	470,194	470,121	470,362	1,350
63	16,00	477,832	477,876	477,863	477,944	477,906	478,045	477,972	478,214	1,349
64	16,00	485,989	486,033	486,020	486,101	486,063	486,203	486,130	486,373	1,348
65	16,00	493,844	493,888	493,874	493,956	493,918	494,058	493,985	494,228	1,347
66	16,00	501,996	502,040	502,027	502,108	502,071	502,210	502,138	502,381	1,347
67	16,00	509,854	509,898	509,885	509,967	509,930	510,069	509,997	510,241	1,346
68	16,00	518,002	518,046	518,033	518,114	518,078	518,217	518,145	518,389	1,345
69	16,00	525,864	525,908	525,896	525,977	525,941	526,080	526,009	526,253	1,344
70	16,00	534,008	534,051	534,039	534,120	534,084	534,224	534,153	534,397	1,344
71	16,00	541,874	541,917	541,906	541,987	541,951	542,091	542,020	542,264	1,343
72	16,00	550,013	550,057	550,045	550,126	550,091	550,231	550,160	550,405	1,343
73	16,00	557,883	557,926	557,915	557,996	557,961	558,101	558,030	558,276	1,342
74	16,00	566,018	566,062	566,051	566,132	566,097	566,237	566,167	566,412	1,342
75	16,00	573,892	573,935	573,924	574,005	573,970	574,111	574,041	574,286	1,341
76	16,00	582,023	582,067	582,056	582,137	582,103	582,243	582,173	582,419	1,340
77	16,00	589,900	589,943	589,932	590,014	589,979	590,120	590,050	590,297	1,340
78	16,00	598,028	598,071	598,061	598,142	598,108	598,249	598,179	598,426	1,339
79	16,00	605,907	605,951	605,941	606,022	605,988	606,129	606,060	606,307	1,339
80	16,00	614,033	614,076	614,066	614,147	614,113	614,255	614,186	614,433	1,338
81	16,00	621,915	621,958	621,948	622,030	621,996	622,137	622,068	622,317	1,338
82	16,00	630,037	630,080	630,071	630,152	630,119	630,260	630,191	630,440	1,338
83	16,00	637,922	637,965	637,956	638,037	638,004	638,146	638,077	638,326	1,337
84	16,00	646,041	646,084	646,075	646,157	646,123	646,265	646,197	646,446	1,337
85	16,00	653,929	653,972	653,963	654,045	654,011	654,154	654,085	654,335	1,336
86	16,00	662,045	662,088	662,079	662,161	662,128	662,270	662,202	662,453	1,336
87	16,00	669,935	669,978	669,970	670,052	670,019	670,161	670,093	670,344	1,335
88	16,00	678,049	678,092	678,083	678,165	678,133	678,275	678,208	678,459	1,335
89	16,00	685,941	685,985	685,976	686,058	686,026	686,169	686,101	686,352	1,334
90	16,00	694,053	694,096	694,087	694,170	694,137	694,280	694,213	694,465	1,334
91	16,00	701,947	701,991	701,982	702,065	702,032	702,176	702,108	702,361	1,334
92	16,00	710,056	710,099	710,091	710,174	710,142	710,285	710,218	710,471	1,333
93	16,00	717,953	717,996	717,988	718,071	718,039	718,183	718,116	718,369	1,333
94	16,00	726,059	726,103	726,095	726,178	726,146	726,290	726,223	726,476	1,333
95	16,00	733,959	734,002	733,994	734,077	734,045	734,189	734,123	734,377	1,332
96	16,00	742,063	742,106	742,098	742,181	742,150	742,294	742,227	742,482	1,332
97	16,00	749,964	750,007	750,000	750,083	750,051	750,196	750,129	750,384	1,332
98	16,00	758,066	758,109	758,102	758,185	758,154	758,299	758,232	758,488	1,331
99	16,00	765,969	766,012	766,005	766,088	766,057	766,202	766,136	766,392	1,331
100	16,00	774,069	774,112	774,105	774,189	774,157	774,303	774,237	774,493	1,331

Table 108 — Inspection dimensions external spline, $\alpha = 37{,}5°$, $m = 8$, $S_{v\,max} = 12{,}566$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	21,20	84,690	84,727	84,655	84,716	84,602	84,700	84,514	84,675	0,993
7	20,00	88,421	88,458	88,385	88,447	88,331	88,430	88,241	88,404	1,001
8	19,00	96,028	96,066	95,989	96,054	95,931	96,036	95,834	96,008	1,057
9	19,00	102,858	102,897	102,819	102,884	102,760	102,866	102,663	102,837	1,056
10	19,00	112,259	112,298	112,218	112,285	112,157	112,266	112,055	112,236	1,085
11	18,00	116,946	116,986	116,904	116,972	116,842	116,953	116,737	116,921	1,099
12	18,00	126,032	126,073	125,989	126,059	125,925	126,038	125,817	126,006	1,121
13	18,00	133,246	133,287	133,203	133,272	133,137	133,251	133,029	133,218	1,122
14	18,00	142,146	142,188	142,102	142,173	142,035	142,151	141,924	142,117	1,138
15	18,00	149,470	149,512	149,425	149,496	149,358	149,474	149,246	149,439	1,139
16	18,00	158,238	158,280	158,192	158,264	158,123	158,241	158,009	158,205	1,152
17	18,00	165,645	165,686	165,598	165,670	165,529	165,647	165,413	165,611	1,154
18	18,00	174,313	174,355	174,266	174,338	174,195	174,314	174,078	174,277	1,164
19	17,00	179,310	179,352	179,262	179,335	179,190	179,310	179,070	179,272	1,178
20	17,00	187,890	187,932	187,841	187,915	187,768	187,890	187,646	187,851	1,187
21	17,00	195,411	195,454	195,362	195,436	195,289	195,411	195,166	195,371	1,188
22	17,00	203,932	203,975	203,882	203,957	203,808	203,931	203,684	203,890	1,195
23	17,00	211,496	211,539	211,446	211,521	211,371	211,494	211,246	211,453	1,196
24	17,00	219,968	220,011	219,918	219,992	219,842	219,965	219,715	219,924	1,202
25	17,00	227,568	227,611	227,517	227,592	227,441	227,564	227,313	227,522	1,203
26	17,00	235,999	236,042	235,948	236,023	235,871	235,995	235,742	235,952	1,209
27	17,00	243,629	243,672	243,578	243,653	243,500	243,624	243,370	243,581	1,209
28	17,00	252,027	252,069	251,974	252,050	251,896	252,021	251,765	251,977	1,214
29	17,00	259,683	259,725	259,630	259,705	259,551	259,676	259,419	259,631	1,215
30	17,00	268,051	268,093	267,997	268,073	267,918	268,043	267,785	267,998	1,219
31	17,00	275,729	275,772	275,676	275,751	275,595	275,721	275,462	275,675	1,220
32	17,00	284,072	284,114	284,018	284,093	283,937	284,063	283,802	284,017	1,223
33	17,00	291,770	291,813	291,716	291,791	291,634	291,761	291,499	291,714	1,224
34	17,00	300,091	300,133	300,036	300,112	299,954	300,081	299,818	300,033	1,227
35	17,00	307,806	307,849	307,751	307,827	307,669	307,796	307,532	307,748	1,228
36	17,00	316,108	316,150	316,052	316,128	315,969	316,096	315,831	316,048	1,231
37	17,00	323,839	323,881	323,783	323,859	323,700	323,827	323,561	323,778	1,232
38	17,00	332,123	332,165	332,067	332,143	331,983	332,110	331,843	332,061	1,234
39	17,00	339,868	339,910	339,812	339,888	339,728	339,855	339,587	339,805	1,235
40	17,00	348,137	348,179	348,080	348,156	347,995	348,123	347,854	348,072	1,237
41	17,00	355,895	355,937	355,838	355,913	355,752	355,880	355,610	355,829	1,238
42	17,00	364,150	364,192	364,092	364,168	364,007	364,134	363,863	364,083	1,240
43	17,00	371,919	371,961	371,861	371,937	371,775	371,903	371,631	371,850	1,240
44	17,00	380,161	380,203	380,103	380,179	380,017	380,145	379,872	380,092	1,242
45	17,00	387,940	387,982	387,882	387,958	387,795	387,923	387,650	387,870	1,243
46	17,00	396,172	396,213	396,113	396,189	396,026	396,154	395,880	396,100	1,245
47	17,00	403,960	404,002	403,902	403,977	403,814	403,942	403,667	403,888	1,245
48	17,00	412,181	412,223	412,122	412,198	412,034	412,162	411,886	412,108	1,247
49	17,00	419,979	420,020	419,920	419,995	419,831	419,959	419,683	419,904	1,247
50	17,00	428,190	428,232	428,131	428,206	428,042	428,170	427,893	428,114	1,249
51	17,00	435,996	436,037	435,936	436,012	435,846	435,975	435,697	435,919	1,249
52	17,00	444,199	444,240	444,139	444,214	444,048	444,177	443,898	444,121	1,251
53	17,00	452,011	452,053	451,951	452,027	451,861	451,989	451,710	451,932	1,251
54	17,00	460,206	460,247	460,146	460,221	460,055	460,184	459,903	460,126	1,253
55	17,00	468,026	468,067	467,965	468,041	467,874	468,003	467,722	467,945	1,253
56	17,00	476,213	476,254	476,152	476,228	476,061	476,189	475,908	476,131	1,254
57	17,00	484,039	484,080	483,978	484,053	483,886	484,015	483,733	483,956	1,254
58	17,00	492,220	492,261	492,158	492,234	492,066	492,195	491,912	492,136	1,256
59	17,00	500,052	500,093	499,990	500,065	499,897	500,026	499,743	499,967	1,256
60	17,00	508,226	508,267	508,164	508,239	508,071	508,200	507,916	508,140	1,257
61	17,00	516,064	516,104	516,001	516,077	515,908	516,037	515,752	515,976	1,257
62	17,00	524,232	524,273	524,169	524,245	524,076	524,205	523,919	524,144	1,258
63	17,00	532,074	532,115	532,011	532,087	531,917	532,047	531,759	531,985	1,259
64	17,00	540,237	540,278	540,174	540,249	540,079	540,209	539,920	540,147	1,260
65	17,00	548,084	548,125	548,021	548,097	547,925	548,056	547,766	547,994	1,260
66	17,00	556,242	556,283	556,178	556,254	556,082	556,213	555,923	556,150	1,261
67	17,00	564,094	564,135	564,030	564,106	563,934	564,064	563,773	564,001	1,261
68	17,00	572,247	572,287	572,182	572,258	572,086	572,216	571,924	572,153	1,262
69	17,00	580,103	580,144	580,038	580,114	579,941	580,072	579,779	580,008	1,262
70	17,00	588,251	588,292	588,186	588,262	588,088	588,220	587,926	588,156	1,263
71	17,00	596,111	596,152	596,046	596,122	595,948	596,080	595,785	596,015	1,263
72	17,00	604,255	604,296	604,189	604,266	604,091	604,223	603,927	604,158	1,264
73	17,00	612,119	612,160	612,053	612,130	611,955	612,087	611,790	612,021	1,264
74	17,00	620,259	620,300	620,193	620,269	620,094	620,226	619,929	620,160	1,265
75	17,00	628,126	628,167	628,060	628,137	627,961	628,093	627,795	628,027	1,265
76	17,00	636,262	636,303	636,196	636,272	636,096	636,229	635,929	636,162	1,266
77	17,00	644,133	644,174	644,067	644,143	643,966	644,099	643,799	644,032	1,266
78	17,00	652,266	652,307	652,199	652,275	652,098	652,231	651,930	652,164	1,267
79	17,00	660,140	660,181	660,073	660,150	659,972	660,105	659,803	660,037	1,267
80	17,00	668,269	668,310	668,201	668,278	668,100	668,233	667,931	668,165	1,268
81	17,00	676,146	676,187	676,078	676,156	675,977	676,110	675,807	676,042	1,268
82	17,00	684,272	684,313	684,204	684,281	684,101	684,235	683,931	684,167	1,269
83	17,00	692,152	692,193	692,084	692,161	691,981	692,116	691,810	692,046	1,269
84	17,00	700,275	700,316	700,206	700,283	700,103	700,237	699,931	700,168	1,269
85	17,00	708,158	708,199	708,089	708,167	707,986	708,120	707,813	708,050	1,270
86	17,00	716,277	716,318	716,208	716,286	716,104	716,239	715,931	716,169	1,270
87	17,00	724,163	724,204	724,094	724,172	723,990	724,125	723,816	724,054	1,270
88	17,00	732,280	732,321	732,210	732,288	732,105	732,241	731,931	732,170	1,271
89	17,00	740,168	740,209	740,098	740,176	739,993	740,129	739,818	740,058	1,271
90	17,00	748,282	748,323	748,212	748,290	748,106	748,243	747,931	748,171	1,272
91	17,00	756,173	756,214	756,103	756,181	755,997	756,133	755,820	756,061	1,272
92	17,00	764,284	764,326	764,214	764,292	764,107	764,244	763,930	764,171	1,272
93	17,00	772,178	772,219	772,107	772,185	772,000	772,137	771,822	772,064	1,272
94	17,00	780,286	780,328	780,215	780,294	780,108	780,245	779,930	780,172	1,273
95	17,00	788,182	788,223	788,110	788,189	788,003	788,141	787,824	788,067	1,273
96	17,00	796,288	796,330	796,217	796,296	796,109	796,247	795,929	796,173	1,273
97	17,00	804,186	804,228	804,114	804,193	804,006	804,144	803,826	804,070	1,274
98	17,00	812,290	812,332	812,218	812,297	812,109	812,248	811,928	812,173	1,274
99	17,00	820,190	820,232	820,117	820,197	820,009	820,147	819,827	820,072	1,274
100	17,00	828,292	828,334	828,219	828,299	828,110	828,249	827,928	828,173	1,275

5.28 37,5° pressure angle, module 10

Table 109 — Geometry internal spline, $\alpha = 37{,}5°$, $m = 10$, fillet root, $E_{v\,min} = 15{,}708$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	60,00	47,6012	74,33	71,00	53,05	15,772	15,810	15,868	15,964
7	70,00	55,5347	84,34	81,00	62,72	15,773	15,812	15,870	15,968
8	80,00	63,4683	94,34	91,00	72,47	15,774	15,813	15,873	15,972
9	90,00	71,4018	104,35	101,00	82,29	15,775	15,815	15,875	15,975
10	100,00	79,3353	114,35	111,00	92,15	15,776	15,816	15,877	15,978
11	110,00	87,2689	124,36	121,00	102,03	15,776	15,817	15,879	15,981
12	120,00	95,2024	134,36	131,00	111,94	15,777	15,819	15,881	15,984
13	130,00	103,1359	144,36	141,00	121,86	15,778	15,820	15,883	15,987
14	140,00	111,0695	154,37	151,00	131,79	15,778	15,821	15,884	15,990
15	150,00	119,0030	164,37	161,00	141,74	15,779	15,822	15,886	15,992
16	160,00	126,9365	174,37	171,00	151,69	15,780	15,823	15,887	15,995
17	170,00	134,8701	184,38	181,00	161,64	15,780	15,824	15,889	15,997
18	180,00	142,8036	194,38	191,00	171,61	15,781	15,825	15,890	16,000
19	190,00	150,7371	204,38	201,00	181,57	15,781	15,826	15,892	16,002
20	200,00	158,6707	214,39	211,00	191,54	15,782	15,826	15,893	16,004
21	210,00	166,6042	224,39	221,00	201,52	15,783	15,827	15,894	16,006
22	220,00	174,5377	234,39	231,00	211,49	15,783	15,828	15,896	16,008
23	230,00	182,4713	244,39	241,00	221,47	15,784	15,829	15,897	16,010
24	240,00	190,4048	254,40	251,00	231,45	15,784	15,830	15,898	16,012
25	250,00	198,3383	264,40	261,00	241,43	15,785	15,830	15,899	16,014
26	260,00	206,2719	274,40	271,00	251,41	15,785	15,831	15,901	16,016
27	270,00	214,2054	284,40	281,00	261,40	15,785	15,832	15,902	16,018
28	280,00	222,1389	294,41	291,00	271,38	15,786	15,833	15,903	16,020
29	290,00	230,0725	304,41	301,00	281,37	15,786	15,833	15,904	16,022
30	300,00	238,0060	314,41	311,00	291,36	15,787	15,834	15,905	16,023
31	310,00	245,9395	324,41	321,00	301,34	15,787	15,835	15,906	16,025
32	320,00	253,8731	334,42	331,00	311,33	15,788	15,835	15,907	16,027
33	330,00	261,8066	344,42	341,00	321,32	15,788	15,836	15,908	16,028
34	340,00	269,7401	354,42	351,00	331,31	15,789	15,837	15,909	16,030
35	350,00	277,6737	364,42	361,00	341,30	15,789	15,837	15,910	16,032
36	360,00	285,6072	374,42	371,00	351,29	15,789	15,838	15,911	16,033
37	370,00	293,5407	384,43	381,00	361,29	15,790	15,839	15,912	16,035
38	380,00	301,4743	394,43	391,00	371,28	15,790	15,839	15,913	16,036
39	390,00	309,4078	404,43	401,00	381,27	15,790	15,840	15,914	16,038
40	400,00	317,3413	414,43	411,00	391,26	15,791	15,841	15,915	16,039
41	410,00	325,2749	424,43	421,00	401,26	15,791	15,841	15,916	16,041
42	420,00	333,2084	434,44	431,00	411,25	15,792	15,842	15,917	16,042
43	430,00	341,1419	444,44	441,00	421,25	15,792	15,842	15,918	16,044
44	440,00	349,0755	454,44	451,00	431,24	15,792	15,843	15,919	16,045
45	450,00	357,0090	464,44	461,00	441,23	15,793	15,844	15,920	16,047
46	460,00	364,9425	474,44	471,00	451,23	15,793	15,844	15,921	16,048
47	470,00	372,8761	484,45	481,00	461,22	15,793	15,845	15,921	16,050
48	480,00	380,8096	494,45	491,00	471,22	15,794	15,845	15,922	16,051
49	490,00	388,7431	504,45	501,00	481,21	15,794	15,846	15,923	16,052
50	500,00	396,6767	514,45	511,00	491,21	15,794	15,846	15,924	16,054
51	510,00	404,6102	524,45	521,00	501,21	15,795	15,847	15,926	16,056
52	520,00	412,5437	534,46	531,00	511,20	15,796	15,848	15,927	16,058
53	530,00	420,4773	544,46	541,00	521,20	15,796	15,849	15,928	16,060
54	540,00	428,4108	554,46	551,00	531,19	15,796	15,849	15,929	16,061
55	550,00	436,3443	564,46	561,00	541,19	15,797	15,850	15,930	16,063
56	560,00	444,2779	574,46	571,00	551,19	15,797	15,851	15,931	16,064
57	570,00	452,2114	584,47	581,00	561,18	15,798	15,851	15,932	16,066
58	580,00	460,1449	594,47	591,00	571,18	15,798	15,852	15,933	16,068
59	590,00	468,0785	604,47	601,00	581,18	15,798	15,852	15,934	16,069
60	600,00	476,0120	614,47	611,00	591,17	15,799	15,853	15,935	16,071
61	610,00	483,9455	624,47	621,00	601,17	15,799	15,854	15,936	16,072
62	620,00	491,8791	634,48	631,00	611,17	15,800	15,854	15,937	16,074
63	630,00	499,8126	644,48	641,00	621,17	15,800	15,855	15,938	16,076
64	640,00	507,7461	654,48	651,00	631,16	15,800	15,856	15,939	16,077
65	650,00	515,6797	664,48	661,00	641,16	15,801	15,856	15,940	16,079
66	660,00	523,6132	674,49	671,00	651,16	15,801	15,857	15,941	16,080
67	670,00	531,5467	684,49	681,00	661,16	15,802	15,858	15,942	16,082
68	680,00	539,4803	694,49	691,00	671,15	15,802	15,858	15,943	16,084
69	690,00	547,4138	704,49	701,00	681,15	15,802	15,859	15,944	16,085
70	700,00	555,3473	714,49	711,00	691,15	15,803	15,860	15,945	16,087
71	710,00	563,2809	724,50	721,00	701,15	15,803	15,860	15,946	16,088
72	720,00	571,2144	734,50	731,00	711,14	15,804	15,861	15,947	16,090
73	730,00	579,1479	744,50	741,00	721,14	15,804	15,861	15,948	16,092
74	740,00	587,0815	754,50	751,00	731,14	15,804	15,862	15,949	16,093
75	750,00	595,0150	764,50	761,00	741,14	15,805	15,863	15,950	16,095
76	760,00	602,9485	774,51	771,00	751,14	15,805	15,863	15,951	16,096
77	770,00	610,8821	784,51	781,00	761,14	15,806	15,864	15,952	16,098
78	780,00	618,8156	794,51	791,00	771,13	15,806	15,865	15,953	16,100
79	790,00	626,7491	804,51	801,00	781,13	15,806	15,865	15,954	16,101
80	800,00	634,6827	814,51	811,00	791,13	15,807	15,866	15,955	16,103
81	810,00	642,6162	824,52	821,00	801,13	15,807	15,867	15,956	16,104
82	820,00	650,5497	834,52	831,00	811,13	15,808	15,867	15,957	16,106
83	830,00	658,4833	844,52	841,00	821,13	15,808	15,868	15,958	16,108
84	840,00	666,4168	854,52	851,00	831,12	15,808	15,868	15,959	16,109
85	850,00	674,3503	864,52	861,00	841,12	15,809	15,869	15,960	16,111
86	860,00	682,2839	874,53	871,00	851,12	15,809	15,870	15,961	16,112
87	870,00	690,2174	884,53	881,00	861,12	15,810	15,870	15,962	16,114
88	880,00	698,1509	894,53	891,00	871,12	15,810	15,871	15,963	16,116
89	890,00	706,0845	904,53	901,00	881,12	15,810	15,872	15,964	16,117
90	900,00	714,0180	914,54	911,00	891,12	15,811	15,872	15,965	16,119
91	910,00	721,9515	924,54	921,00	901,11	15,811	15,873	15,966	16,120
92	920,00	729,8851	934,54	931,00	911,11	15,812	15,874	15,967	16,122
93	930,00	737,8186	944,54	941,00	921,11	15,812	15,874	15,968	16,124
94	940,00	745,7521	954,54	951,00	931,11	15,812	15,875	15,969	16,125
95	950,00	753,6857	964,55	961,00	941,11	15,813	15,876	15,970	16,127
96	960,00	761,6192	974,55	971,00	951,11	15,813	15,876	15,971	16,128
97	970,00	769,5527	984,55	981,00	961,11	15,814	15,877	15,972	16,130
98	980,00	777,4863	994,55	991,00	971,11	15,814	15,877	15,973	16,132
99	990,00	785,4198	1004,55	1001,00	981,10	15,814	15,878	15,974	16,133
100	1000,00	793,3533	1014,56	1011,00	991,10	15,815	15,879	15,975	16,135

Table 110 — Geometry external spline, $\alpha = 37{,}5°$, $m = 10$, fillet root, $S_{v\,max} = 15{,}708$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	60,00	47,6012	69,00	51,05	45,67	15,644	15,606	15,548	15,452
7	70,00	55,5347	79,00	60,72	55,66	15,643	15,604	15,546	15,448
8	80,00	63,4683	89,00	70,47	65,66	15,642	15,603	15,543	15,444
9	90,00	71,4018	99,00	80,29	75,65	15,641	15,601	15,541	15,441
10	100,00	79,3353	109,00	90,15	85,65	15,640	15,600	15,539	15,438
11	110,00	87,2689	119,00	100,03	95,64	15,640	15,599	15,537	15,435
12	120,00	95,2024	129,00	109,94	105,64	15,639	15,597	15,535	15,432
13	130,00	103,1359	139,00	119,86	115,64	15,638	15,596	15,533	15,429
14	140,00	111,0695	149,00	129,79	125,63	15,638	15,595	15,532	15,426
15	150,00	119,0030	159,00	139,74	135,63	15,637	15,594	15,530	15,424
16	160,00	126,9365	169,00	149,69	145,63	15,636	15,593	15,529	15,421
17	170,00	134,8701	179,00	159,64	155,62	15,636	15,592	15,527	15,419
18	180,00	142,8036	189,00	169,61	165,62	15,635	15,591	15,526	15,416
19	190,00	150,7371	199,00	179,57	175,62	15,635	15,590	15,524	15,414
20	200,00	158,6707	209,00	189,54	185,61	15,634	15,590	15,523	15,412
21	210,00	166,6042	219,00	199,52	195,61	15,633	15,589	15,522	15,410
22	220,00	174,5377	229,00	209,49	205,61	15,633	15,588	15,520	15,408
23	230,00	182,4713	239,00	219,47	215,61	15,632	15,587	15,519	15,406
24	240,00	190,4048	249,00	229,45	225,60	15,632	15,586	15,518	15,404
25	250,00	198,3383	259,00	239,43	235,60	15,631	15,586	15,517	15,402
26	260,00	206,2719	269,00	249,41	245,60	15,631	15,585	15,515	15,400
27	270,00	214,2054	279,00	259,40	255,60	15,631	15,584	15,514	15,398
28	280,00	222,1389	289,00	269,38	265,59	15,630	15,583	15,513	15,396
29	290,00	230,0725	299,00	279,37	275,59	15,630	15,583	15,512	15,394
30	300,00	238,0060	309,00	289,36	285,59	15,629	15,582	15,511	15,393
31	310,00	245,9395	319,00	299,34	295,59	15,629	15,581	15,510	15,391
32	320,00	253,8731	329,00	309,33	305,58	15,628	15,581	15,509	15,389
33	330,00	261,8066	339,00	319,32	315,58	15,628	15,580	15,508	15,388
34	340,00	269,7401	349,00	329,31	325,58	15,627	15,579	15,507	15,386
35	350,00	277,6737	359,00	339,30	335,58	15,627	15,579	15,506	15,384
36	360,00	285,6072	369,00	349,29	345,58	15,627	15,578	15,505	15,383
37	370,00	293,5407	379,00	359,29	355,57	15,626	15,577	15,504	15,381
38	380,00	301,4743	389,00	369,28	365,57	15,626	15,577	15,503	15,380
39	390,00	309,4078	399,00	379,27	375,57	15,626	15,576	15,502	15,378
40	400,00	317,3413	409,00	389,26	385,57	15,625	15,575	15,501	15,377
41	410,00	325,2749	419,00	399,26	395,57	15,625	15,575	15,500	15,375
42	420,00	333,2084	429,00	409,25	405,56	15,624	15,574	15,499	15,374
43	430,00	341,1419	439,00	419,25	415,56	15,624	15,574	15,498	15,372
44	440,00	349,0755	449,00	429,24	425,56	15,624	15,573	15,497	15,371
45	450,00	357,0090	459,00	439,23	435,56	15,623	15,572	15,496	15,369
46	460,00	364,9425	469,00	449,23	445,56	15,623	15,572	15,495	15,368
47	470,00	372,8761	479,00	459,22	455,55	15,623	15,571	15,495	15,366
48	480,00	380,8096	489,00	469,22	465,55	15,622	15,571	15,494	15,365
49	490,00	388,7431	499,00	479,21	475,55	15,622	15,570	15,493	15,364
50	500,00	396,6767	509,00	489,21	485,55	15,622	15,570	15,492	15,362
51	510,00	404,6102	519,00	499,21	495,55	15,621	15,569	15,490	15,360
52	520,00	412,5437	529,00	509,20	505,54	15,620	15,568	15,489	15,358
53	530,00	420,4773	539,00	519,20	515,54	15,620	15,567	15,488	15,356
54	540,00	428,4108	549,00	529,19	525,54	15,620	15,567	15,487	15,355
55	550,00	436,3443	559,00	539,19	535,54	15,619	15,566	15,486	15,353
56	560,00	444,2779	569,00	549,19	545,54	15,619	15,565	15,485	15,352
57	570,00	452,2114	579,00	559,18	555,53	15,618	15,565	15,484	15,350
58	580,00	460,1449	589,00	569,18	565,53	15,618	15,564	15,483	15,348
59	590,00	468,0785	599,00	579,18	575,53	15,618	15,564	15,482	15,347
60	600,00	476,0120	609,00	589,17	585,53	15,617	15,563	15,481	15,345
61	610,00	483,9455	619,00	599,17	595,53	15,617	15,562	15,480	15,344
62	620,00	491,8791	629,00	609,17	605,52	15,616	15,562	15,479	15,342
63	630,00	499,8126	639,00	619,17	615,52	15,616	15,561	15,478	15,340
64	640,00	507,7461	649,00	629,16	625,52	15,616	15,560	15,477	15,339
65	650,00	515,6797	659,00	639,16	635,52	15,615	15,560	15,476	15,337
66	660,00	523,6132	669,00	649,16	645,51	15,615	15,559	15,475	15,336
67	670,00	531,5467	679,00	659,16	655,51	15,614	15,558	15,474	15,334
68	680,00	539,4803	689,00	669,15	665,51	15,614	15,558	15,473	15,332
69	690,00	547,4138	699,00	679,15	675,51	15,614	15,557	15,472	15,331
70	700,00	555,3473	709,00	689,15	685,51	15,613	15,556	15,471	15,329
71	710,00	563,2809	719,00	699,15	695,50	15,613	15,556	15,470	15,328
72	720,00	571,2144	729,00	709,14	705,50	15,612	15,555	15,469	15,326
73	730,00	579,1479	739,00	719,14	715,50	15,612	15,555	15,468	15,324
74	740,00	587,0815	749,00	729,14	725,50	15,612	15,554	15,467	15,323
75	750,00	595,0150	759,00	739,14	735,50	15,611	15,553	15,466	15,321
76	760,00	602,9485	769,00	749,14	745,49	15,611	15,553	15,465	15,320
77	770,00	610,8821	779,00	759,14	755,49	15,610	15,552	15,464	15,318
78	780,00	618,8156	789,00	769,13	765,49	15,610	15,551	15,463	15,316
79	790,00	626,7491	799,00	779,13	775,49	15,610	15,551	15,462	15,315
80	800,00	634,6827	809,00	789,13	785,49	15,609	15,550	15,461	15,313
81	810,00	642,6162	819,00	799,13	795,48	15,609	15,549	15,460	15,312
82	820,00	650,5497	829,00	809,13	805,48	15,608	15,549	15,459	15,310
83	830,00	658,4833	839,00	819,13	815,48	15,608	15,548	15,458	15,308
84	840,00	666,4168	849,00	829,12	825,48	15,608	15,548	15,457	15,307
85	850,00	674,3503	859,00	839,12	835,48	15,607	15,547	15,456	15,305
86	860,00	682,2839	869,00	849,12	845,47	15,607	15,546	15,455	15,304
87	870,00	690,2174	879,00	859,12	855,47	15,606	15,546	15,454	15,302
88	880,00	698,1509	889,00	869,12	865,47	15,606	15,545	15,453	15,300
89	890,00	706,0845	899,00	879,12	875,47	15,606	15,544	15,452	15,299
90	900,00	714,0180	909,00	889,12	885,46	15,605	15,544	15,451	15,297
91	910,00	721,9515	919,00	899,11	895,46	15,605	15,543	15,450	15,296
92	920,00	729,8851	929,00	909,11	905,46	15,604	15,542	15,449	15,294
93	930,00	737,8186	939,00	919,11	915,46	15,604	15,542	15,448	15,292
94	940,00	745,7521	949,00	929,11	925,46	15,604	15,541	15,447	15,291
95	950,00	753,6857	959,00	939,11	935,45	15,603	15,540	15,446	15,289
96	960,00	761,6192	969,00	949,11	945,45	15,603	15,540	15,445	15,288
97	970,00	769,5527	979,00	959,11	955,45	15,602	15,539	15,444	15,286
98	980,00	777,4863	989,00	969,11	965,45	15,602	15,539	15,443	15,284
99	990,00	785,4198	999,00	979,10	975,45	15,602	15,538	15,442	15,283
100	1000,00	793,3533	1009,00	989,10	985,44	15,601	15,537	15,441	15,281

Table 111 — Inspection dimensions internal spline, $\alpha = 37{,}5°$, $m = 10$, $E_{v\,min} = 15{,}708$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	17,00	34,063	34,147	34,089	34,230	34,129	34,353	34,191	34,553	2,066
7	18,00	39,388	39,478	39,417	39,567	39,460	39,699	39,528	39,914	2,179
8	18,00	51,406	51,482	51,431	51,559	51,468	51,673	51,527	51,862	1,898
9	18,00	60,494	60,563	60,518	60,633	60,552	60,737	60,606	60,911	1,722
10	18,00	71,902	71,968	71,925	72,036	71,959	72,138	72,011	72,307	1,661
11	18,00	81,025	81,087	81,047	81,153	81,080	81,251	81,131	81,414	1,586
12	19,00	89,104	89,169	89,127	89,238	89,162	89,341	89,217	89,513	1,653
13	19,00	98,379	98,441	98,402	98,509	98,437	98,609	98,490	98,776	1,593
14	19,00	109,350	109,411	109,373	109,478	109,407	109,578	109,461	109,744	1,569
15	19,00	118,680	118,739	118,703	118,805	118,737	118,903	118,790	119,067	1,532
16	19,00	129,511	129,570	129,535	129,635	129,569	129,734	129,622	129,897	1,518
17	19,00	138,897	138,954	138,920	139,019	138,954	139,117	139,007	139,279	1,493
18	19,00	149,626	149,683	149,650	149,748	149,684	149,846	149,738	150,008	1,483
19	19,00	159,062	159,118	159,085	159,183	159,120	159,280	159,174	159,441	1,465
20	19,00	169,712	169,768	169,736	169,833	169,771	169,930	169,826	170,093	1,459
21	19,00	179,192	179,247	179,216	179,312	179,252	179,409	179,306	179,571	1,444
22	19,00	189,780	189,834	189,804	189,899	189,840	189,997	189,895	190,159	1,440
23	19,00	199,298	199,352	199,323	199,417	199,358	199,514	199,414	199,676	1,429
24	19,00	209,834	209,887	209,859	209,953	209,895	210,050	209,951	210,213	1,425
25	19,00	219,386	219,439	219,411	219,504	219,447	219,602	219,503	219,765	1,416
26	19,00	229,878	229,931	229,904	229,997	229,941	230,095	229,997	230,258	1,413
27	19,00	239,460	239,512	239,485	239,578	239,522	239,676	239,579	239,839	1,406
28	20,00	247,128	247,181	247,155	247,248	247,193	247,348	247,251	247,515	1,424
29	20,00	256,745	256,797	256,771	256,864	256,809	256,964	256,868	257,131	1,416
30	20,00	267,172	267,225	267,199	267,292	267,238	267,392	267,297	267,559	1,414
31	20,00	276,810	276,862	276,837	276,929	276,876	277,030	276,936	277,197	1,407
32	20,00	287,210	287,262	287,237	287,329	287,276	287,430	287,337	287,598	1,405
33	20,00	296,867	296,919	296,895	296,986	296,934	297,087	296,995	297,256	1,400
34	20,00	307,243	307,294	307,270	307,361	307,310	307,463	307,371	307,632	1,398
35	20,00	316,918	316,969	316,946	317,036	316,986	317,138	317,047	317,307	1,393
36	20,00	327,271	327,322	327,299	327,390	327,340	327,492	327,402	327,662	1,391
37	20,00	336,962	337,013	336,991	337,081	337,031	337,183	337,094	337,353	1,387
38	20,00	347,297	347,347	347,325	347,415	347,366	347,518	347,429	347,688	1,386
39	20,00	357,002	357,052	357,031	357,121	357,072	357,223	357,136	357,394	1,382
40	20,00	367,319	367,369	367,348	367,438	367,390	367,541	367,454	367,712	1,381
41	20,00	377,038	377,087	377,067	377,156	377,109	377,260	377,174	377,432	1,378
42	20,00	387,340	387,389	387,369	387,458	387,412	387,562	387,476	387,734	1,377
43	20,00	397,071	397,119	397,100	397,189	397,143	397,293	397,208	397,466	1,374
44	20,00	407,358	407,407	407,388	407,476	407,431	407,581	407,497	407,754	1,373
45	20,00	417,100	417,149	417,130	417,218	417,174	417,323	417,240	417,497	1,370
46	20,00	427,375	427,423	427,405	427,493	427,449	427,598	427,516	427,773	1,369
47	20,00	437,127	437,175	437,158	437,245	437,202	437,350	437,269	437,526	1,367
48	20,00	447,390	447,438	447,421	447,508	447,465	447,614	447,533	447,790	1,366
49	20,00	457,152	457,200	457,183	457,270	457,228	457,376	457,296	457,552	1,364
50	20,00	467,404	467,452	467,435	467,522	467,480	467,628	467,549	467,805	1,363
51	20,00	477,175	477,223	477,206	477,294	477,251	477,401	477,320	477,578	1,361
52	20,00	487,417	487,465	487,449	487,536	487,494	487,643	487,564	487,822	1,361
53	20,00	497,196	497,243	497,228	497,315	497,274	497,423	497,344	497,602	1,359
54	20,00	507,429	507,476	507,461	507,549	507,507	507,657	507,578	507,837	1,358
55	20,00	517,215	517,263	517,248	517,335	517,294	517,444	517,365	517,624	1,356
56	20,00	527,440	527,487	527,473	527,560	527,519	527,669	527,591	527,850	1,356
57	20,00	537,234	537,281	537,266	537,354	537,313	537,463	537,385	537,645	1,354
58	20,00	547,450	547,498	547,483	547,571	547,531	547,680	547,603	547,863	1,354
59	20,00	557,251	557,298	557,284	557,371	557,332	557,481	557,404	557,664	1,352
60	20,00	567,460	567,507	567,493	567,581	567,541	567,691	567,615	567,875	1,352
61	20,00	577,267	577,314	577,300	577,388	577,348	577,498	577,422	577,683	1,351
62	20,00	587,469	587,516	587,503	587,590	587,551	587,702	587,625	587,887	1,350
63	20,00	597,281	597,329	597,315	597,403	597,364	597,515	597,439	597,701	1,349
64	20,00	607,478	607,525	607,512	607,599	607,561	607,712	607,636	607,898	1,349
65	20,00	617,295	617,343	617,330	617,418	617,379	617,530	617,455	617,718	1,347
66	20,00	627,486	627,533	627,520	627,608	627,570	627,721	627,646	627,909	1,347
67	20,00	637,309	637,356	637,344	637,431	637,394	637,545	637,470	637,734	1,346
68	20,00	647,493	647,540	647,528	647,616	647,579	647,730	647,655	647,919	1,346
69	20,00	657,321	657,368	657,356	657,444	657,407	657,559	657,484	657,749	1,345
70	20,00	667,500	667,547	667,536	667,624	667,587	667,738	667,664	667,929	1,344
71	20,00	677,333	677,380	677,369	677,457	677,420	677,572	677,498	677,763	1,343
72	20,00	687,507	687,554	687,543	687,631	687,594	687,747	687,673	687,939	1,343
73	20,00	697,344	697,391	697,380	697,469	697,432	697,584	697,511	697,778	1,342
74	20,00	707,513	707,561	707,550	707,638	707,602	707,755	707,681	707,948	1,342
75	20,00	717,355	717,402	717,391	717,480	717,444	717,597	717,523	717,791	1,341
76	20,00	727,520	727,567	727,556	727,645	727,609	727,762	727,689	727,957	1,341
77	20,00	737,365	737,412	737,402	737,490	737,455	737,608	737,535	737,804	1,340
78	20,00	747,525	747,573	747,562	747,651	747,616	747,769	747,696	747,966	1,340
79	20,00	757,374	757,422	757,412	757,501	757,465	757,619	757,546	757,817	1,339
80	20,00	767,531	767,578	767,568	767,658	767,622	767,777	767,704	767,975	1,339
81	20,00	777,384	777,431	777,421	777,511	777,475	777,630	777,557	777,829	1,338
82	20,00	787,536	787,584	787,574	787,663	787,628	787,783	787,711	787,983	1,338
83	20,00	797,392	797,440	797,430	797,520	797,485	797,640	797,568	797,841	1,337
84	20,00	807,541	807,589	807,579	807,669	807,634	807,790	807,717	807,991	1,337
85	20,00	817,401	817,448	817,439	817,529	817,494	817,650	817,578	817,852	1,336
86	20,00	827,546	827,594	827,585	827,675	827,640	827,796	827,724	827,999	1,336
87	20,00	837,409	837,456	837,447	837,538	837,503	837,660	837,587	837,863	1,335
88	20,00	847,551	847,598	847,590	847,680	847,646	847,803	847,730	848,007	1,335
89	20,00	857,416	857,464	857,455	857,546	857,512	857,669	857,597	857,874	1,335
90	20,00	867,555	867,603	867,595	867,685	867,651	867,809	867,737	868,014	1,334
91	20,00	877,424	877,472	877,463	877,554	877,520	877,678	877,606	877,884	1,334
92	20,00	887,560	887,607	887,599	887,690	887,656	887,815	887,743	888,022	1,334
93	20,00	897,431	897,479	897,471	897,562	897,528	897,687	897,615	897,895	1,333
94	20,00	907,564	907,612	907,604	907,695	907,661	907,820	907,748	908,029	1,333
95	20,00	917,438	917,486	917,478	917,569	917,536	917,695	917,623	917,904	1,332
96	20,00	927,568	927,616	927,608	927,700	927,666	927,826	927,754	928,036	1,332
97	20,00	937,444	937,492	937,485	937,577	937,543	937,703	937,631	937,914	1,332
98	20,00	947,572	947,620	947,612	947,705	947,671	947,832	947,760	948,043	1,332
99	20,00	957,450	957,499	957,491	957,584	957,550	957,711	957,639	957,924	1,331
100	20,00	967,575	967,624	967,616	967,709	967,675	967,837	967,765	968,050	1,331

Table 112 — Inspection dimensions external spline, $\alpha = 37{,}5°$, $m = 10$, $S_{v\,max} = 15{,}708$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	26,50	105,873	105,912	105,835	105,900	105,778	105,882	105,683	105,853	0,993
7	25,00	110,537	110,576	110,498	110,563	110,439	110,545	110,342	110,515	1,001
8	25,00	122,947	122,987	122,906	122,974	122,844	122,954	122,741	122,923	1,043
9	23,60	128,234	128,275	128,192	128,262	128,129	128,241	128,023	128,208	1,057
10	23,60	139,980	140,022	139,936	140,007	139,870	139,986	139,760	139,952	1,086
11	23,60	148,806	148,849	148,762	148,834	148,695	148,811	148,584	148,777	1,087
12	22,40	157,311	157,354	157,264	157,338	157,195	157,315	157,078	157,279	1,122
13	22,40	166,328	166,372	166,281	166,356	166,211	166,332	166,094	166,295	1,122
14	22,40	177,452	177,496	177,404	177,479	177,332	177,454	177,211	177,416	1,139
15	22,40	186,607	186,651	186,558	186,634	186,485	186,609	186,364	186,570	1,140
16	22,40	197,565	197,609	197,515	197,592	197,441	197,566	197,317	197,526	1,153
17	22,40	206,823	206,868	206,773	206,850	206,698	206,823	206,573	206,782	1,154
18	22,40	217,658	217,702	217,607	217,684	217,530	217,657	217,403	217,615	1,165
19	21,20	224,026	224,071	223,974	224,052	223,896	224,024	223,767	223,981	1,179
20	21,20	234,751	234,796	234,698	234,777	234,619	234,748	234,488	234,704	1,187
21	21,20	244,153	244,198	244,100	244,178	244,021	244,150	243,888	244,105	1,188
22	21,20	254,804	254,849	254,750	254,829	254,669	254,799	254,535	254,754	1,195
23	21,20	264,259	264,304	264,205	264,284	264,124	264,254	263,988	264,208	1,196
24	21,20	274,849	274,894	274,794	274,873	274,712	274,842	274,574	274,796	1,202
25	21,20	284,348	284,393	284,293	284,372	284,210	284,341	284,072	284,294	1,203
26	21,20	294,887	294,932	294,832	294,911	294,748	294,880	294,608	294,831	1,209
27	21,20	304,425	304,470	304,369	304,448	304,284	304,416	304,144	304,367	1,209
28	21,20	314,921	314,966	314,865	314,944	314,779	314,912	314,638	314,862	1,214
29	21,20	324,491	324,536	324,434	324,514	324,349	324,481	324,206	324,431	1,215
30	21,20	334,951	334,996	334,894	334,973	334,807	334,940	334,663	334,889	1,219
31	21,20	344,549	344,594	344,491	344,571	344,404	344,537	344,259	344,486	1,220
32	21,20	354,978	355,022	354,919	354,999	354,832	354,965	354,685	354,913	1,223
33	21,20	364,600	364,645	364,542	364,621	364,453	364,587	364,306	364,534	1,224
34	21,20	375,001	375,046	374,942	375,022	374,853	374,987	374,705	374,933	1,227
35	21,20	384,646	384,690	384,586	384,666	384,497	384,631	384,348	384,577	1,228
36	21,20	395,022	395,067	394,962	395,042	394,872	395,006	394,722	394,952	1,231
37	21,20	404,686	404,731	404,626	404,706	404,536	404,670	404,385	404,614	1,232
38	21,20	415,042	415,086	414,981	415,061	414,890	415,024	414,738	414,968	1,234
39	21,20	424,723	424,767	424,662	424,742	424,570	424,705	424,417	424,648	1,235
40	21,20	435,059	435,103	434,997	435,077	434,905	435,040	434,751	434,983	1,237
41	21,20	444,756	444,800	444,694	444,774	444,601	444,736	444,447	444,678	1,238
42	21,20	455,075	455,119	455,012	455,092	454,919	455,054	454,764	454,996	1,240
43	21,20	464,786	464,830	464,723	464,803	464,630	464,765	464,473	464,706	1,240
44	21,20	475,089	475,133	475,026	475,106	474,932	475,067	474,775	475,008	1,242
45	21,20	484,813	484,857	484,750	484,830	484,655	484,790	484,497	484,730	1,243
46	21,20	495,102	495,146	495,039	495,118	494,943	495,079	494,785	495,018	1,245
47	21,20	504,838	504,882	504,774	504,854	504,679	504,814	504,519	504,753	1,245
48	21,20	515,114	515,158	515,050	515,130	514,954	515,089	514,794	515,028	1,247
49	21,20	524,861	524,905	524,797	524,876	524,700	524,836	524,539	524,773	1,247
50	21,20	535,125	535,169	535,061	535,140	534,964	535,099	534,802	535,037	1,249
51	21,20	544,882	544,926	544,817	544,897	544,719	544,855	544,555	544,792	1,249
52	21,20	555,135	555,179	555,070	555,150	554,971	555,108	554,807	555,044	1,251
53	21,20	564,901	564,945	564,835	564,916	564,736	564,873	564,571	564,809	1,251
54	21,20	575,145	575,188	575,078	575,159	574,979	575,116	574,813	575,052	1,253
55	21,20	584,919	584,963	584,853	584,933	584,753	584,890	584,586	584,825	1,253
56	21,20	595,153	595,197	595,086	595,167	594,986	595,124	594,818	595,058	1,254
57	21,20	604,936	604,980	604,868	604,949	604,767	604,906	604,599	604,839	1,255
58	21,20	615,162	615,205	615,094	615,175	614,992	615,131	614,823	615,064	1,256
59	21,20	624,951	624,995	624,883	624,964	624,781	624,920	624,611	624,853	1,256
60	21,20	635,169	635,213	635,101	635,182	634,998	635,137	634,827	635,069	1,257
61	21,20	644,966	645,010	644,897	644,978	644,794	644,933	644,622	644,865	1,257
62	21,20	655,176	655,220	655,107	655,188	655,003	655,143	654,831	655,074	1,259
63	21,20	664,979	665,023	664,910	664,991	664,806	664,946	664,632	664,877	1,259
64	21,20	675,183	675,226	675,113	675,195	675,008	675,149	674,834	675,079	1,260
65	21,20	684,992	685,036	684,922	685,004	684,817	684,957	684,642	684,887	1,260
66	21,20	695,189	695,233	695,118	695,200	695,013	695,154	694,837	695,083	1,261
67	21,20	705,004	705,048	704,933	705,015	704,827	704,968	704,650	704,897	1,261
68	21,20	715,194	715,238	715,123	715,206	715,017	715,159	714,839	715,087	1,262
69	21,20	725,015	725,059	724,943	725,026	724,836	724,978	724,658	724,906	1,262
70	21,20	735,200	735,244	735,128	735,211	735,020	735,163	734,841	735,090	1,263
71	21,20	745,025	745,069	744,953	745,036	744,845	744,988	744,665	744,915	1,263
72	21,20	755,205	755,249	755,132	755,215	755,024	755,167	754,843	755,093	1,264
73	21,20	765,035	765,079	764,962	765,045	764,853	764,997	764,671	764,923	1,264
74	21,20	775,209	775,254	775,136	775,220	775,027	775,171	774,844	775,096	1,265
75	21,20	785,044	785,089	784,971	785,054	784,861	785,005	784,677	784,930	1,265
76	21,20	795,214	795,258	795,140	795,224	795,030	795,174	794,845	795,099	1,266
77	21,20	805,053	805,097	804,979	805,063	804,868	805,013	804,683	804,937	1,266
78	21,20	815,218	815,263	815,144	815,228	815,032	815,177	814,846	815,101	1,267
79	21,20	825,061	825,106	824,986	825,071	824,874	825,020	824,688	824,943	1,267
80	21,20	835,222	835,267	835,147	835,231	835,034	835,180	834,847	835,103	1,268
81	21,20	845,069	845,114	844,994	845,078	844,881	845,027	844,692	844,949	1,268
82	21,20	855,226	855,271	855,150	855,235	855,036	855,183	854,847	855,105	1,269
83	21,20	865,076	865,121	865,000	865,085	864,886	865,034	864,696	864,955	1,269
84	21,20	875,229	875,274	875,153	875,238	875,038	875,186	874,847	875,107	1,269
85	21,20	885,083	885,128	885,007	885,092	884,892	885,040	884,700	884,960	1,270
86	21,20	895,232	895,278	895,155	895,241	895,040	895,188	894,847	895,109	1,270
87	21,20	905,090	905,135	905,013	905,098	904,897	905,045	904,703	904,965	1,270
88	21,20	915,235	915,281	915,158	915,244	915,041	915,191	914,847	915,110	1,271
89	21,20	925,096	925,142	925,018	925,104	924,901	925,051	924,706	924,970	1,271
90	21,20	935,238	935,284	935,160	935,247	935,043	935,193	934,847	935,111	1,272
91	21,20	945,102	945,148	945,024	945,110	944,906	945,056	944,709	944,974	1,272
92	21,20	955,241	955,287	955,162	955,249	955,044	955,195	954,846	955,112	1,272
93	21,20	965,108	965,154	965,029	965,116	964,910	965,061	964,711	964,978	1,272
94	21,20	975,244	975,290	975,164	975,251	975,045	975,197	974,846	975,113	1,273
95	21,20	985,113	985,159	985,033	985,121	984,913	985,066	984,713	984,982	1,273
96	21,20	995,246	995,292	995,166	995,254	995,045	995,198	994,845	995,114	1,273
97	21,20	1005,118	1005,164	1005,038	1005,126	1004,917	1005,070	1004,715	1004,986	1,274
98	21,20	1015,248	1015,295	1015,168	1015,256	1015,046	1015,200	1014,844	1015,115	1,274
99	21,20	1025,123	1025,170	1025,042	1025,130	1024,920	1025,074	1024,717	1024,989	1,274
100	21,20	1035,251	1035,297	1035,169	1035,258	1035,047	1035,201	1034,843	1035,116	1,275

5.29 45° pressure angle, module 0,25

Table 113 — Geometry internal spline, $\alpha = 45°$, $m = 0{,}25$, fillet root, $E_{v\,min} = 0{,}393$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	1,50	1,0607	1,87	1,75	1,32	0,411	0,422	0,439	0,466
7	1,75	1,2374	2,12	2,00	1,57	0,412	0,423	0,440	0,468
8	2,00	1,4142	2,38	2,25	1,82	0,412	0,423	0,440	0,469
9	2,25	1,5910	2,63	2,50	2,07	0,412	0,424	0,441	0,469
10	2,50	1,7678	2,88	2,75	2,31	0,412	0,424	0,441	0,470
11	2,75	1,9445	3,13	3,00	2,56	0,413	0,424	0,442	0,471
12	3,00	2,1213	3,38	3,25	2,81	0,413	0,425	0,442	0,472
13	3,25	2,2981	3,63	3,50	3,06	0,413	0,425	0,443	0,473
14	3,50	2,4749	3,88	3,75	3,31	0,413	0,425	0,443	0,473
15	3,75	2,6517	4,13	4,00	3,56	0,413	0,425	0,444	0,474
16	4,00	2,8284	4,38	4,25	3,81	0,413	0,426	0,444	0,475
17	4,25	3,0052	4,63	4,50	4,06	0,414	0,426	0,444	0,475
18	4,50	3,1820	4,88	4,75	4,31	0,414	0,426	0,445	0,476
19	4,75	3,3588	5,13	5,00	4,56	0,414	0,426	0,445	0,476
20	5,00	3,5355	5,38	5,25	4,81	0,414	0,427	0,445	0,477
21	5,25	3,7123	5,63	5,50	5,06	0,414	0,427	0,446	0,477
22	5,50	3,8891	5,88	5,75	5,31	0,414	0,427	0,446	0,478
23	5,75	4,0659	6,14	6,00	5,56	0,414	0,427	0,446	0,478
24	6,00	4,2426	6,39	6,25	5,81	0,414	0,427	0,447	0,479
25	6,25	4,4194	6,64	6,50	6,06	0,415	0,427	0,447	0,479
26	6,50	4,5962	6,89	6,75	6,30	0,415	0,428	0,447	0,480
27	6,75	4,7730	7,14	7,00	6,55	0,415	0,428	0,447	0,480
28	7,00	4,9497	7,39	7,25	6,80	0,415	0,428	0,448	0,481
29	7,25	5,1265	7,64	7,50	7,05	0,415	0,428	0,448	0,481
30	7,50	5,3033	7,89	7,75	7,30	0,415	0,428	0,448	0,481
31	7,75	5,4801	8,14	8,00	7,55	0,415	0,428	0,448	0,482
32	8,00	5,6569	8,39	8,25	7,80	0,415	0,429	0,449	0,482
33	8,25	5,8336	8,64	8,50	8,05	0,415	0,429	0,449	0,483
34	8,50	6,0104	8,89	8,75	8,30	0,415	0,429	0,449	0,483
35	8,75	6,1872	9,14	9,00	8,55	0,416	0,429	0,449	0,483
36	9,00	6,3640	9,39	9,25	8,80	0,416	0,429	0,450	0,484
37	9,25	6,5407	9,64	9,50	9,05	0,416	0,429	0,450	0,484
38	9,50	6,7175	9,89	9,75	9,30	0,416	0,430	0,450	0,484
39	9,75	6,8943	10,14	10,00	9,55	0,416	0,430	0,450	0,485
40	10,00	7,0711	10,39	10,25	9,80	0,416	0,430	0,450	0,485
41	10,25	7,2478	10,64	10,50	10,05	0,416	0,430	0,451	0,485
42	10,50	7,4246	10,89	10,75	10,30	0,416	0,430	0,451	0,486
43	10,75	7,6014	11,14	11,00	10,55	0,416	0,430	0,451	0,486
44	11,00	7,7782	11,39	11,25	10,80	0,416	0,430	0,451	0,486
45	11,25	7,9550	11,64	11,50	11,05	0,416	0,430	0,451	0,487
46	11,50	8,1317	11,89	11,75	11,30	0,416	0,431	0,452	0,487
47	11,75	8,3085	12,14	12,00	11,55	0,417	0,431	0,452	0,487
48	12,00	8,4853	12,39	12,25	11,80	0,417	0,431	0,452	0,487
49	12,25	8,6621	12,64	12,50	12,05	0,417	0,431	0,452	0,488
50	12,50	8,8388	12,90	12,75	12,30	0,417	0,431	0,452	0,488
51	12,75	9,0156	13,15	13,00	12,55	0,417	0,431	0,453	0,488
52	13,00	9,1924	13,40	13,25	12,80	0,417	0,431	0,453	0,489
53	13,25	9,3692	13,65	13,50	13,05	0,417	0,431	0,453	0,489
54	13,50	9,5459	13,90	13,75	13,30	0,417	0,431	0,453	0,489
55	13,75	9,7227	14,15	14,00	13,55	0,417	0,432	0,453	0,489
56	14,00	9,8995	14,40	14,25	13,80	0,417	0,432	0,453	0,490
57	14,25	10,0763	14,65	14,50	14,05	0,417	0,432	0,454	0,490
58	14,50	10,2530	14,90	14,75	14,30	0,417	0,432	0,454	0,490
59	14,75	10,4298	15,15	15,00	14,55	0,417	0,432	0,454	0,491
60	15,00	10,6066	15,40	15,25	14,80	0,417	0,432	0,454	0,491
61	15,25	10,7834	15,65	15,50	15,05	0,418	0,432	0,454	0,491
62	15,50	10,9602	15,90	15,75	15,30	0,418	0,432	0,454	0,491
63	15,75	11,1369	16,15	16,00	15,55	0,418	0,432	0,455	0,492
64	16,00	11,3137	16,40	16,25	15,80	0,418	0,433	0,455	0,492
65	16,25	11,4905	16,65	16,50	16,05	0,418	0,433	0,455	0,492
66	16,50	11,6673	16,90	16,75	16,30	0,418	0,433	0,455	0,492
67	16,75	11,8440	17,15	17,00	16,55	0,418	0,433	0,455	0,493
68	17,00	12,0208	17,40	17,25	16,80	0,418	0,433	0,455	0,493
69	17,25	12,1976	17,65	17,50	17,05	0,418	0,433	0,456	0,493
70	17,50	12,3744	17,90	17,75	17,30	0,418	0,433	0,456	0,493
71	17,75	12,5511	18,15	18,00	17,55	0,418	0,433	0,456	0,493
72	18,00	12,7279	18,40	18,25	17,80	0,418	0,433	0,456	0,494
73	18,25	12,9047	18,65	18,50	18,05	0,418	0,433	0,456	0,494
74	18,50	13,0815	18,90	18,75	18,30	0,418	0,433	0,456	0,494
75	18,75	13,2583	19,15	19,00	18,55	0,418	0,434	0,456	0,494
76	19,00	13,4350	19,40	19,25	18,80	0,418	0,434	0,456	0,495
77	19,25	13,6118	19,65	19,50	19,05	0,418	0,434	0,457	0,495
78	19,50	13,7886	19,90	19,75	19,30	0,419	0,434	0,457	0,495
79	19,75	13,9654	20,15	20,00	19,55	0,419	0,434	0,457	0,495
80	20,00	14,1421	20,40	20,25	19,80	0,419	0,434	0,457	0,495
81	20,25	14,3189	20,65	20,50	20,05	0,419	0,434	0,457	0,496
82	20,50	14,4957	20,90	20,75	20,30	0,419	0,434	0,457	0,496
83	20,75	14,6725	21,15	21,00	20,55	0,419	0,434	0,457	0,496
84	21,00	14,8492	21,40	21,25	20,80	0,419	0,434	0,458	0,496
85	21,25	15,0260	21,65	21,50	21,05	0,419	0,434	0,458	0,497
86	21,50	15,2028	21,90	21,75	21,30	0,419	0,434	0,458	0,497
87	21,75	15,3796	22,15	22,00	21,55	0,419	0,435	0,458	0,497
88	22,00	15,5563	22,40	22,25	21,80	0,419	0,435	0,458	0,497
89	22,25	15,7331	22,65	22,50	22,05	0,419	0,435	0,458	0,497
90	22,50	15,9099	22,90	22,75	22,30	0,419	0,435	0,458	0,498
91	22,75	16,0867	23,15	23,00	22,55	0,419	0,435	0,458	0,498
92	23,00	16,2635	23,40	23,25	22,80	0,419	0,435	0,459	0,498
93	23,25	16,4402	23,66	23,50	23,05	0,419	0,435	0,459	0,498
94	23,50	16,6170	23,91	23,75	23,30	0,419	0,435	0,459	0,498
95	23,75	16,7938	24,16	24,00	23,55	0,419	0,435	0,459	0,498
96	24,00	16,9706	24,41	24,25	23,80	0,419	0,435	0,459	0,499
97	24,25	17,1473	24,66	24,50	24,05	0,419	0,435	0,459	0,499
98	24,50	17,3241	24,91	24,75	24,30	0,420	0,435	0,459	0,499
99	24,75	17,5009	25,16	25,00	24,55	0,420	0,435	0,459	0,499
100	25,00	17,6777	25,41	25,25	24,80	0,420	0,436	0,460	0,499

Table 114 — Geometry external spline, $\alpha = 45°$, $m = 0{,}25$**, fillet root,** $S_{v\,max} = 0{,}393$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	1,50	1,0607	1,70	1,27	1,13	0,375	0,364	0,347	0,320
7	1,75	1,2374	1,95	1,52	1,38	0,374	0,363	0,346	0,318
8	2,00	1,4142	2,20	1,77	1,62	0,374	0,363	0,346	0,317
9	2,25	1,5910	2,45	2,02	1,87	0,374	0,362	0,345	0,317
10	2,50	1,7678	2,70	2,26	2,12	0,374	0,362	0,345	0,316
11	2,75	1,9445	2,95	2,51	2,37	0,373	0,362	0,344	0,315
12	3,00	2,1213	3,20	2,76	2,62	0,373	0,361	0,344	0,314
13	3,25	2,2981	3,45	3,01	2,87	0,373	0,361	0,343	0,313
14	3,50	2,4749	3,70	3,26	3,12	0,373	0,361	0,343	0,313
15	3,75	2,6517	3,95	3,51	3,37	0,373	0,361	0,342	0,312
16	4,00	2,8284	4,20	3,76	3,62	0,373	0,360	0,342	0,311
17	4,25	3,0052	4,45	4,01	3,87	0,372	0,360	0,342	0,311
18	4,50	3,1820	4,70	4,26	4,12	0,372	0,360	0,341	0,310
19	4,75	3,3588	4,95	4,51	4,37	0,372	0,360	0,341	0,310
20	5,00	3,5355	5,20	4,76	4,62	0,372	0,359	0,341	0,309
21	5,25	3,7123	5,45	5,01	4,87	0,372	0,359	0,340	0,309
22	5,50	3,8891	5,70	5,26	5,12	0,372	0,359	0,340	0,308
23	5,75	4,0659	5,95	5,51	5,36	0,372	0,359	0,340	0,308
24	6,00	4,2426	6,20	5,76	5,61	0,372	0,359	0,339	0,307
25	6,25	4,4194	6,45	6,01	5,86	0,371	0,359	0,339	0,307
26	6,50	4,5962	6,70	6,25	6,11	0,371	0,358	0,339	0,306
27	6,75	4,7730	6,95	6,50	6,36	0,371	0,358	0,339	0,306
28	7,00	4,9497	7,20	6,75	6,61	0,371	0,358	0,338	0,305
29	7,25	5,1265	7,45	7,00	6,86	0,371	0,358	0,338	0,305
30	7,50	5,3033	7,70	7,25	7,11	0,371	0,358	0,338	0,305
31	7,75	5,4801	7,95	7,50	7,36	0,371	0,358	0,338	0,304
32	8,00	5,6569	8,20	7,75	7,61	0,371	0,357	0,337	0,304
33	8,25	5,8336	8,45	8,00	7,86	0,371	0,357	0,337	0,303
34	8,50	6,0104	8,70	8,25	8,11	0,371	0,357	0,337	0,303
35	8,75	6,1872	8,95	8,50	8,36	0,370	0,357	0,337	0,303
36	9,00	6,3640	9,20	8,75	8,61	0,370	0,357	0,336	0,302
37	9,25	6,5407	9,45	9,00	8,86	0,370	0,357	0,336	0,302
38	9,50	6,7175	9,70	9,25	9,11	0,370	0,356	0,336	0,302
39	9,75	6,8943	9,95	9,50	9,36	0,370	0,356	0,336	0,301
40	10,00	7,0711	10,20	9,75	9,61	0,370	0,356	0,336	0,301
41	10,25	7,2478	10,45	10,00	9,86	0,370	0,356	0,335	0,301
42	10,50	7,4246	10,70	10,25	10,11	0,370	0,356	0,335	0,300
43	10,75	7,6014	10,95	10,50	10,36	0,370	0,356	0,335	0,300
44	11,00	7,7782	11,20	10,75	10,61	0,370	0,356	0,335	0,300
45	11,25	7,9550	11,45	11,00	10,86	0,370	0,356	0,335	0,299
46	11,50	8,1317	11,70	11,25	11,11	0,370	0,355	0,334	0,299
47	11,75	8,3085	11,95	11,50	11,36	0,369	0,355	0,334	0,299
48	12,00	8,4853	12,20	11,75	11,61	0,369	0,355	0,334	0,299
49	12,25	8,6621	12,45	12,00	11,86	0,369	0,355	0,334	0,298
50	12,50	8,8388	12,70	12,25	12,10	0,369	0,355	0,334	0,298
51	12,75	9,0156	12,95	12,50	12,35	0,369	0,355	0,333	0,298
52	13,00	9,1924	13,20	12,75	12,60	0,369	0,355	0,333	0,297
53	13,25	9,3692	13,45	13,00	12,85	0,369	0,355	0,333	0,297
54	13,50	9,5459	13,70	13,25	13,10	0,369	0,355	0,333	0,297
55	13,75	9,7227	13,95	13,50	13,35	0,369	0,354	0,333	0,297
56	14,00	9,8995	14,20	13,75	13,60	0,369	0,354	0,333	0,296
57	14,25	10,0763	14,45	14,00	13,85	0,369	0,354	0,332	0,296
58	14,50	10,2530	14,70	14,25	14,10	0,369	0,354	0,332	0,296
59	14,75	10,4298	14,95	14,50	14,35	0,369	0,354	0,332	0,295
60	15,00	10,6066	15,20	14,75	14,60	0,369	0,354	0,332	0,295
61	15,25	10,7834	15,45	15,00	14,85	0,368	0,354	0,332	0,295
62	15,50	10,9602	15,70	15,25	15,10	0,368	0,354	0,332	0,295
63	15,75	11,1369	15,95	15,50	15,35	0,368	0,354	0,331	0,294
64	16,00	11,3137	16,20	15,75	15,60	0,368	0,353	0,331	0,294
65	16,25	11,4905	16,45	16,00	15,85	0,368	0,353	0,331	0,294
66	16,50	11,6673	16,70	16,25	16,10	0,368	0,353	0,331	0,294
67	16,75	11,8440	16,95	16,50	16,35	0,368	0,353	0,331	0,293
68	17,00	12,0208	17,20	16,75	16,60	0,368	0,353	0,331	0,293
69	17,25	12,1976	17,45	17,00	16,85	0,368	0,353	0,330	0,293
70	17,50	12,3744	17,70	17,25	17,10	0,368	0,353	0,330	0,293
71	17,75	12,5511	17,95	17,50	17,35	0,368	0,353	0,330	0,293
72	18,00	12,7279	18,20	17,75	17,60	0,368	0,353	0,330	0,292
73	18,25	12,9047	18,45	18,00	17,85	0,368	0,353	0,330	0,292
74	18,50	13,0815	18,70	18,25	18,10	0,368	0,353	0,330	0,292
75	18,75	13,2583	18,95	18,50	18,35	0,368	0,352	0,330	0,292
76	19,00	13,4350	19,20	18,75	18,60	0,368	0,352	0,330	0,291
77	19,25	13,6118	19,45	19,00	18,85	0,368	0,352	0,329	0,291
78	19,50	13,7886	19,70	19,25	19,10	0,367	0,352	0,329	0,291
79	19,75	13,9654	19,95	19,50	19,35	0,367	0,352	0,329	0,291
80	20,00	14,1421	20,20	19,75	19,60	0,367	0,352	0,329	0,291
81	20,25	14,3189	20,45	20,00	19,85	0,367	0,352	0,329	0,290
82	20,50	14,4957	20,70	20,25	20,10	0,367	0,352	0,329	0,290
83	20,75	14,6725	20,95	20,50	20,35	0,367	0,352	0,329	0,290
84	21,00	14,8492	21,20	20,75	20,60	0,367	0,352	0,328	0,290
85	21,25	15,0260	21,45	21,00	20,85	0,367	0,352	0,328	0,289
86	21,50	15,2028	21,70	21,25	21,10	0,367	0,352	0,328	0,289
87	21,75	15,3796	21,95	21,50	21,35	0,367	0,351	0,328	0,289
88	22,00	15,5563	22,20	21,75	21,60	0,367	0,351	0,328	0,289
89	22,25	15,7331	22,45	22,00	21,85	0,367	0,351	0,328	0,289
90	22,50	15,9099	22,70	22,25	22,10	0,367	0,351	0,328	0,288
91	22,75	16,0867	22,95	22,50	22,35	0,367	0,351	0,328	0,288
92	23,00	16,2635	23,20	22,75	22,60	0,367	0,351	0,327	0,288
93	23,25	16,4402	23,45	23,00	22,84	0,367	0,351	0,327	0,288
94	23,50	16,6170	23,70	23,25	23,09	0,367	0,351	0,327	0,288
95	23,75	16,7938	23,95	23,50	23,34	0,367	0,351	0,327	0,288
96	24,00	16,9706	24,20	23,75	23,59	0,367	0,351	0,327	0,287
97	24,25	17,1473	24,45	24,00	23,84	0,367	0,351	0,327	0,287
98	24,50	17,3241	24,70	24,25	24,09	0,366	0,351	0,327	0,287
99	24,75	17,5009	24,95	24,50	24,34	0,366	0,351	0,327	0,287
100	25,00	17,6777	25,20	24,75	24,59	0,366	0,350	0,326	0,287

Table 115 — Inspection dimensions internal spline, $\alpha = 45°$, $m = 0{,}25$, $E_{v\,min} = 0{,}393$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	0,45	0,784	0,797	0,790	0,811	0,799	0,833	0,814	0,866	1,194
7	0,48	0,934	0,946	0,940	0,961	0,949	0,982	0,963	1,015	1,174
8	0,48	1,228	1,239	1,233	1,254	1,242	1,274	1,256	1,308	1,161
9	0,50	1,384	1,396	1,390	1,410	1,399	1,431	1,412	1,465	1,154
10	0,50	1,668	1,680	1,674	1,694	1,682	1,715	1,696	1,748	1,144
11	0,50	1,897	1,909	1,903	1,922	1,911	1,942	1,924	1,975	1,113
12	0,50	2,175	2,186	2,180	2,200	2,188	2,220	2,201	2,253	1,109
13	0,50	2,406	2,417	2,411	2,430	2,419	2,450	2,432	2,483	1,090
14	0,53	2,600	2,612	2,606	2,626	2,614	2,646	2,627	2,680	1,110
15	0,53	2,834	2,845	2,840	2,859	2,848	2,879	2,861	2,913	1,094
16	0,53	3,104	3,116	3,110	3,129	3,118	3,150	3,131	3,183	1,091
17	0,53	3,339	3,351	3,345	3,364	3,353	3,384	3,366	3,418	1,079
18	0,53	3,607	3,618	3,613	3,632	3,621	3,652	3,634	3,686	1,078
19	0,53	3,843	3,855	3,849	3,868	3,857	3,888	3,870	3,922	1,069
20	0,53	4,109	4,121	4,115	4,134	4,123	4,155	4,136	4,188	1,068
21	0,53	4,347	4,358	4,352	4,371	4,360	4,392	4,373	4,425	1,061
22	0,53	4,611	4,622	4,617	4,636	4,625	4,656	4,637	4,690	1,060
23	0,53	4,849	4,860	4,855	4,874	4,863	4,895	4,876	4,928	1,054
24	0,53	5,113	5,124	5,118	5,138	5,126	5,158	5,139	5,192	1,054
25	0,53	5,352	5,363	5,357	5,376	5,365	5,397	5,378	5,431	1,049
26	0,53	5,614	5,625	5,619	5,639	5,627	5,659	5,640	5,694	1,049
27	0,53	5,853	5,865	5,859	5,878	5,867	5,899	5,880	5,933	1,045
28	0,53	6,115	6,126	6,120	6,140	6,128	6,161	6,141	6,195	1,045
29	0,53	6,355	6,366	6,361	6,380	6,369	6,401	6,382	6,435	1,041
30	0,53	6,616	6,627	6,621	6,641	6,629	6,662	6,642	6,696	1,041
31	0,53	6,857	6,868	6,862	6,882	6,870	6,903	6,883	6,937	1,038
32	0,53	7,116	7,128	7,122	7,142	7,130	7,163	7,143	7,197	1,038
33	0,56	7,283	7,295	7,289	7,309	7,297	7,330	7,310	7,365	1,042
34	0,56	7,543	7,554	7,548	7,568	7,556	7,589	7,570	7,624	1,042
35	0,56	7,785	7,796	7,790	7,810	7,798	7,831	7,812	7,867	1,039
36	0,56	8,043	8,055	8,049	8,069	8,057	8,090	8,071	8,126	1,039
37	0,56	8,286	8,297	8,291	8,311	8,300	8,333	8,313	8,368	1,037
38	0,56	8,544	8,555	8,550	8,570	8,558	8,591	8,571	8,627	1,037
39	0,56	8,787	8,798	8,793	8,812	8,801	8,834	8,814	8,869	1,035
40	0,56	9,045	9,056	9,050	9,070	9,059	9,092	9,072	9,128	1,034
41	0,56	9,288	9,299	9,294	9,313	9,302	9,335	9,315	9,371	1,033
42	0,56	9,545	9,557	9,551	9,571	9,559	9,593	9,573	9,629	1,033
43	0,56	9,789	9,800	9,794	9,814	9,803	9,836	9,816	9,872	1,031
44	0,56	10,046	10,057	10,052	10,072	10,060	10,093	10,074	10,129	1,031
45	0,56	10,289	10,301	10,295	10,315	10,304	10,337	10,317	10,373	1,029
46	0,56	10,546	10,558	10,552	10,572	10,561	10,594	10,574	10,630	1,029
47	0,56	10,790	10,801	10,796	10,816	10,804	10,838	10,818	10,874	1,028
48	0,56	11,047	11,058	11,053	11,073	11,061	11,095	11,075	11,131	1,028
49	0,56	11,291	11,302	11,297	11,317	11,305	11,339	11,319	11,375	1,027
50	0,56	11,547	11,558	11,553	11,573	11,562	11,595	11,575	11,632	1,027
51	0,56	11,791	11,803	11,797	11,818	11,806	11,840	11,820	11,876	1,026
52	0,56	12,047	12,059	12,053	12,074	12,062	12,096	12,076	12,133	1,025
53	0,56	12,292	12,303	12,298	12,318	12,307	12,340	12,321	12,377	1,024
54	0,56	12,548	12,559	12,554	12,574	12,563	12,596	12,576	12,633	1,024
55	0,56	12,793	12,804	12,799	12,819	12,807	12,841	12,821	12,878	1,023
56	0,56	13,048	13,060	13,054	13,074	13,063	13,097	13,077	13,134	1,023
57	0,56	13,293	13,304	13,299	13,319	13,308	13,342	13,322	13,379	1,023
58	0,56	13,548	13,560	13,555	13,575	13,563	13,597	13,577	13,635	1,022
59	0,56	13,794	13,805	13,800	13,820	13,808	13,842	13,823	13,880	1,022
60	0,56	14,049	14,060	14,055	14,075	14,064	14,098	14,078	14,135	1,022
61	0,56	14,294	14,305	14,300	14,321	14,309	14,343	14,323	14,381	1,021
62	0,56	14,549	14,561	14,555	14,576	14,564	14,598	14,578	14,636	1,021
63	0,56	14,794	14,806	14,801	14,821	14,810	14,844	14,824	14,881	1,020
64	0,56	15,049	15,061	15,056	15,076	15,064	15,099	15,079	15,137	1,020
65	0,56	15,295	15,306	15,301	15,322	15,310	15,344	15,324	15,382	1,019
66	0,56	15,550	15,561	15,556	15,576	15,565	15,599	15,579	15,637	1,019
67	0,56	15,795	15,807	15,802	15,822	15,811	15,845	15,825	15,883	1,019
68	0,56	16,050	16,061	16,056	16,077	16,065	16,100	16,080	16,138	1,019
69	0,56	16,296	16,307	16,302	16,322	16,311	16,345	16,325	16,384	1,018
70	0,56	16,550	16,562	16,556	16,577	16,566	16,600	16,580	16,638	1,018
71	0,56	16,796	16,807	16,802	16,823	16,811	16,846	16,826	16,884	1,018
72	0,56	17,050	17,062	17,057	17,077	17,066	17,100	17,080	17,139	1,018
73	0,56	17,296	17,308	17,303	17,323	17,312	17,346	17,326	17,385	1,017
74	0,56	17,551	17,562	17,557	17,578	17,566	17,601	17,581	17,639	1,017
75	0,56	17,797	17,808	17,803	17,824	17,812	17,847	17,827	17,886	1,017
76	0,56	18,051	18,062	18,057	18,078	18,066	18,101	18,081	18,140	1,017
77	0,56	18,297	18,308	18,303	18,324	18,313	18,347	18,327	18,386	1,016
78	0,56	18,551	18,562	18,558	18,578	18,567	18,601	18,581	18,640	1,016
79	0,56	18,797	18,809	18,804	18,824	18,813	18,848	18,828	18,887	1,016
80	0,56	19,051	19,063	19,058	19,078	19,067	19,102	19,082	19,141	1,016
81	0,56	19,298	19,309	19,304	19,325	19,313	19,348	19,328	19,387	1,015
82	0,56	19,551	19,563	19,558	19,579	19,567	19,602	19,582	19,641	1,015
83	0,56	19,798	19,809	19,804	19,825	19,814	19,849	19,829	19,888	1,015
84	0,56	20,052	20,063	20,058	20,079	20,068	20,103	20,083	20,142	1,015
85	0,56	20,298	20,310	20,305	20,325	20,314	20,349	20,329	20,389	1,014
86	0,56	20,552	20,563	20,558	20,579	20,568	20,603	20,583	20,642	1,014
87	0,56	20,798	20,810	20,805	20,826	20,814	20,850	20,830	20,889	1,014
88	0,56	21,052	21,063	21,059	21,079	21,068	21,103	21,083	21,143	1,014
89	0,56	21,299	21,310	21,305	21,326	21,315	21,350	21,330	21,390	1,014
90	0,56	21,552	21,564	21,559	21,580	21,568	21,603	21,583	21,643	1,014
91	0,56	21,799	21,810	21,806	21,826	21,815	21,850	21,830	21,890	1,013
92	0,56	22,052	22,064	22,059	22,080	22,069	22,104	22,084	22,144	1,013
93	0,56	22,299	22,311	22,306	22,327	22,315	22,351	22,331	22,391	1,013
94	0,56	22,552	22,564	22,559	22,580	22,569	22,604	22,584	22,644	1,013
95	0,56	22,799	22,811	22,806	22,827	22,816	22,851	22,831	22,891	1,013
96	0,56	23,053	23,064	23,059	23,080	23,069	23,104	23,084	23,145	1,013
97	0,56	23,300	23,311	23,306	23,327	23,316	23,351	23,331	23,392	1,013
98	0,56	23,553	23,564	23,560	23,580	23,569	23,605	23,585	23,645	1,012
99	0,56	23,800	23,811	23,807	23,828	23,816	23,852	23,832	23,892	1,012
100	0,56	24,053	24,064	24,060	24,081	24,070	24,105	24,085	24,145	1,012

Table 116 — Inspection dimensions external spline, $\alpha = 45°$, $m = 0{,}25$, $S_{v\,max} = 0{,}393$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	0,80	2,934	2,941	2,925	2,937	2,911	2,932	2,888	2,923	0,821
7	0,75	3,023	3,031	3,014	3,027	3,000	3,022	2,978	3,013	0,820
8	0,71	3,249	3,257	3,239	3,253	3,225	3,247	3,200	3,238	0,859
9	0,71	3,460	3,468	3,450	3,464	3,436	3,458	3,411	3,449	0,855
10	0,67	3,666	3,675	3,656	3,671	3,641	3,665	3,615	3,655	0,884
11	0,67	3,886	3,894	3,875	3,890	3,860	3,884	3,834	3,874	0,882
12	0,67	4,171	4,180	4,160	4,175	4,144	4,169	4,118	4,159	0,897
13	0,67	4,395	4,404	4,385	4,400	4,369	4,394	4,342	4,383	0,896
14	0,63	4,583	4,592	4,572	4,588	4,556	4,581	4,528	4,571	0,915
15	0,63	4,811	4,820	4,800	4,816	4,784	4,810	4,756	4,799	0,914
16	0,63	5,085	5,095	5,074	5,090	5,057	5,084	5,029	5,073	0,923
17	0,63	5,316	5,325	5,305	5,321	5,288	5,314	5,260	5,304	0,923
18	0,63	5,587	5,597	5,576	5,592	5,558	5,585	5,530	5,574	0,930
19	0,63	5,820	5,830	5,809	5,825	5,791	5,818	5,762	5,807	0,930
20	0,63	6,089	6,098	6,077	6,093	6,059	6,087	6,030	6,076	0,935
21	0,63	6,323	6,333	6,311	6,328	6,294	6,321	6,264	6,310	0,935
22	0,60	6,520	6,530	6,508	6,525	6,490	6,518	6,460	6,507	0,945
23	0,60	6,756	6,766	6,744	6,761	6,726	6,754	6,696	6,743	0,945
24	0,60	7,021	7,031	7,009	7,026	6,991	7,019	6,960	7,007	0,949
25	0,60	7,258	7,268	7,246	7,263	7,228	7,256	7,197	7,245	0,949
26	0,60	7,522	7,532	7,509	7,527	7,491	7,520	7,460	7,508	0,953
27	0,60	7,760	7,770	7,747	7,765	7,729	7,758	7,698	7,746	0,952
28	0,60	8,022	8,032	8,010	8,027	7,991	8,020	7,960	8,008	0,955
29	0,60	8,261	8,271	8,249	8,266	8,230	8,259	8,198	8,247	0,955
30	0,60	8,523	8,533	8,510	8,528	8,491	8,520	8,459	8,509	0,958
31	0,60	8,762	8,773	8,750	8,767	8,731	8,760	8,699	8,748	0,958
32	0,60	9,023	9,033	9,010	9,028	8,991	9,021	8,959	9,009	0,960
33	0,60	9,263	9,274	9,251	9,269	9,231	9,261	9,199	9,249	0,960
34	0,60	9,523	9,534	9,511	9,529	9,491	9,521	9,459	9,509	0,963
35	0,60	9,764	9,775	9,751	9,769	9,732	9,762	9,699	9,750	0,963
36	0,60	10,024	10,034	10,011	10,029	9,991	10,021	9,958	10,009	0,964
37	0,60	10,265	10,276	10,252	10,270	10,232	10,263	10,200	10,251	0,964
38	0,60	10,524	10,534	10,511	10,529	10,491	10,522	10,458	10,509	0,966
39	0,60	10,766	10,776	10,753	10,771	10,733	10,763	10,700	10,751	0,966
40	0,60	11,024	11,035	11,011	11,029	10,991	11,022	10,958	11,009	0,968
41	0,60	11,267	11,277	11,253	11,272	11,233	11,264	11,200	11,252	0,968
42	0,60	11,525	11,535	11,511	11,530	11,491	11,522	11,457	11,509	0,969
43	0,60	11,767	11,778	11,754	11,772	11,734	11,764	11,700	11,752	0,969
44	0,60	12,025	12,035	12,011	12,030	11,991	12,022	11,957	12,009	0,970
45	0,60	12,268	12,278	12,254	12,273	12,234	12,265	12,200	12,252	0,970
46	0,60	12,525	12,535	12,511	12,530	12,491	12,522	12,457	12,509	0,972
47	0,60	12,768	12,779	12,754	12,773	12,734	12,765	12,700	12,753	0,972
48	0,60	13,025	13,036	13,011	13,030	12,991	13,022	12,956	13,009	0,973
49	0,60	13,269	13,279	13,255	13,274	13,234	13,266	13,200	13,253	0,973
50	0,60	13,525	13,536	13,511	13,530	13,491	13,522	13,456	13,509	0,974
51	0,60	13,769	13,780	13,755	13,774	13,734	13,766	13,699	13,753	0,974
52	0,60	14,025	14,036	14,011	14,030	13,990	14,022	13,956	14,009	0,975
53	0,60	14,269	14,280	14,255	14,274	14,234	14,266	14,199	14,253	0,975
54	0,60	14,525	14,536	14,511	14,530	14,490	14,522	14,455	14,509	0,976
55	0,60	14,770	14,780	14,756	14,775	14,734	14,766	14,699	14,753	0,976
56	0,60	15,025	15,036	15,011	15,030	14,990	15,022	14,955	15,009	0,976
57	0,60	15,270	15,281	15,256	15,275	15,234	15,267	15,199	15,253	0,976
58	0,60	15,526	15,536	15,511	15,530	15,490	15,522	15,454	15,509	0,977
59	0,60	15,770	15,781	15,756	15,775	15,735	15,767	15,699	15,753	0,977
60	0,60	16,026	16,036	16,011	16,031	15,990	16,022	15,954	16,009	0,978
61	0,60	16,270	16,281	16,256	16,275	16,235	16,267	16,199	16,254	0,978
62	0,60	16,526	16,536	16,511	16,531	16,490	16,522	16,454	16,509	0,979
63	0,60	16,771	16,781	16,756	16,776	16,735	16,767	16,698	16,754	0,979
64	0,60	17,026	17,037	17,011	17,031	16,989	17,022	16,953	17,009	0,979
65	0,60	17,271	17,282	17,256	17,276	17,235	17,267	17,198	17,254	0,979
66	0,60	17,526	17,537	17,511	17,531	17,489	17,522	17,453	17,508	0,980
67	0,60	17,771	17,782	17,756	17,776	17,735	17,767	17,698	17,754	0,980
68	0,60	18,026	18,037	18,011	18,031	17,989	18,022	17,953	18,008	0,980
69	0,60	18,271	18,282	18,257	18,276	18,235	18,267	18,198	18,254	0,980
70	0,60	18,526	18,537	18,511	18,531	18,489	18,522	18,452	18,508	0,981
71	0,60	18,771	18,782	18,757	18,776	18,734	18,768	18,698	18,754	0,981
72	0,60	19,026	19,037	19,011	19,031	18,989	19,022	18,952	19,008	0,982
73	0,60	19,271	19,282	19,257	19,276	19,234	19,268	19,197	19,254	0,982
74	0,60	19,526	19,537	19,511	19,531	19,489	19,522	19,451	19,508	0,982
75	0,60	19,772	19,783	19,757	19,776	19,734	19,768	19,697	19,754	0,982
76	0,60	20,026	20,037	20,011	20,031	19,988	20,022	19,951	20,008	0,982
77	0,60	20,272	20,283	20,257	20,276	20,234	20,268	20,197	20,254	0,983
78	0,60	20,526	20,537	20,511	20,531	20,488	20,522	20,451	20,508	0,983
79	0,60	20,772	20,783	20,757	20,777	20,734	20,768	20,697	20,754	0,983
80	0,60	21,026	21,037	21,011	21,031	20,988	21,022	20,950	21,007	0,983
81	0,60	21,272	21,283	21,257	21,277	21,234	21,268	21,196	21,253	0,983
82	0,60	21,526	21,537	21,511	21,531	21,488	21,522	21,450	21,507	0,984
83	0,60	21,772	21,783	21,757	21,777	21,734	21,768	21,696	21,753	0,984
84	0,60	22,026	22,037	22,011	22,030	21,988	22,021	21,950	22,007	0,984
85	0,60	22,272	22,283	22,257	22,277	22,234	22,268	22,196	22,253	0,984
86	0,60	22,526	22,537	22,511	22,530	22,488	22,521	22,449	22,507	0,985
87	0,60	22,772	22,783	22,757	22,777	22,734	22,768	22,696	22,753	0,985
88	0,60	23,026	23,037	23,010	23,030	22,987	23,021	22,949	23,007	0,985
89	0,60	23,272	23,283	23,257	23,277	23,234	23,268	23,195	23,253	0,985
90	0,60	23,526	23,537	23,510	23,530	23,487	23,521	23,449	23,507	0,985
91	0,60	23,772	23,783	23,757	23,777	23,734	23,768	23,695	23,753	0,985
92	0,60	24,026	24,037	24,010	24,030	23,987	24,021	23,948	24,006	0,986
93	0,60	24,272	24,283	24,257	24,277	24,234	24,268	24,195	24,253	0,986
94	0,60	24,526	24,537	24,510	24,530	24,487	24,521	24,448	24,506	0,986
95	0,60	24,772	24,784	24,757	24,777	24,734	24,768	24,695	24,753	0,986
96	0,60	25,026	25,037	25,010	25,030	24,987	25,021	24,948	25,006	0,986
97	0,60	25,272	25,284	25,257	25,277	25,233	25,268	25,194	25,253	0,986
98	0,60	25,526	25,537	25,510	25,530	25,487	25,521	25,447	25,506	0,986
99	0,60	25,773	25,784	25,757	25,777	25,733	25,768	25,694	25,753	0,986
100	0,60	26,026	26,037	26,010	26,030	25,986	26,021	25,947	26,006	0,987

5.30 45° pressure angle, module 0,5

Table 117 — Geometry internal spline, $\alpha = 45°$, $m = 0{,}5$, fillet root, $E_{v\,min} = 0{,}785$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	3,00	2,1213	3,69	3,50	2,65	0,808	0,822	0,843	0,878
7	3,50	2,4749	4,19	4,00	3,14	0,809	0,823	0,844	0,879
8	4,00	2,8284	4,70	4,50	3,64	0,809	0,823	0,845	0,880
9	4,50	3,1820	5,20	5,00	4,13	0,809	0,824	0,845	0,881
10	5,00	3,5355	5,70	5,50	4,63	0,809	0,824	0,846	0,883
11	5,50	3,8891	6,20	6,00	5,12	0,810	0,824	0,847	0,884
12	6,00	4,2426	6,70	6,50	5,62	0,810	0,825	0,847	0,884
13	6,50	4,5962	7,20	7,00	6,12	0,810	0,825	0,848	0,885
14	7,00	4,9497	7,70	7,50	6,62	0,810	0,826	0,848	0,886
15	7,50	5,3033	8,20	8,00	7,12	0,811	0,826	0,849	0,887
16	8,00	5,6569	8,70	8,50	7,62	0,811	0,826	0,849	0,888
17	8,50	6,0104	9,20	9,00	8,12	0,811	0,826	0,850	0,889
18	9,00	6,3640	9,70	9,50	8,61	0,811	0,827	0,850	0,889
19	9,50	6,7175	10,21	10,00	9,11	0,811	0,827	0,851	0,890
20	10,00	7,0711	10,71	10,50	9,61	0,811	0,827	0,851	0,891
21	10,50	7,4246	11,21	11,00	10,11	0,812	0,828	0,851	0,891
22	11,00	7,7782	11,71	11,50	10,61	0,812	0,828	0,852	0,892
23	11,50	8,1317	12,21	12,00	11,11	0,812	0,828	0,852	0,893
24	12,00	8,4853	12,71	12,50	11,61	0,812	0,828	0,853	0,893
25	12,50	8,8388	13,21	13,00	12,11	0,812	0,829	0,853	0,894
26	13,00	9,1924	13,71	13,50	12,61	0,812	0,829	0,853	0,894
27	13,50	9,5459	14,21	14,00	13,11	0,812	0,829	0,854	0,895
28	14,00	9,8995	14,71	14,50	13,61	0,813	0,829	0,854	0,895
29	14,50	10,2530	15,21	15,00	14,11	0,813	0,829	0,854	0,896
30	15,00	10,6066	15,71	15,50	14,61	0,813	0,830	0,855	0,897
31	15,50	10,9602	16,21	16,00	15,11	0,813	0,830	0,855	0,897
32	16,00	11,3137	16,71	16,50	15,61	0,813	0,830	0,855	0,898
33	16,50	11,6673	17,21	17,00	16,11	0,813	0,830	0,856	0,898
34	17,00	12,0208	17,71	17,50	16,61	0,813	0,830	0,856	0,899
35	17,50	12,3744	18,21	18,00	17,11	0,813	0,831	0,856	0,899
36	18,00	12,7279	18,71	18,50	17,61	0,814	0,831	0,857	0,899
37	18,50	13,0815	19,21	19,00	18,11	0,814	0,831	0,857	0,900
38	19,00	13,4350	19,72	19,50	18,61	0,814	0,831	0,857	0,900
39	19,50	13,7886	20,22	20,00	19,11	0,814	0,831	0,857	0,901
40	20,00	14,1421	20,72	20,50	19,61	0,814	0,831	0,858	0,901
41	20,50	14,4957	21,22	21,00	20,11	0,814	0,832	0,858	0,902
42	21,00	14,8492	21,72	21,50	20,61	0,814	0,832	0,858	0,902
43	21,50	15,2028	22,22	22,00	21,11	0,814	0,832	0,858	0,902
44	22,00	15,5563	22,72	22,50	21,61	0,814	0,832	0,859	0,903
45	22,50	15,9099	23,22	23,00	22,11	0,815	0,832	0,859	0,903
46	23,00	16,2635	23,72	23,50	22,61	0,815	0,832	0,859	0,904
47	23,50	16,6170	24,22	24,00	23,11	0,815	0,833	0,859	0,904
48	24,00	16,9706	24,72	24,50	23,61	0,815	0,833	0,860	0,904
49	24,50	17,3241	25,22	25,00	24,11	0,815	0,833	0,860	0,905
50	25,00	17,6777	25,72	25,50	24,61	0,815	0,833	0,860	0,905
51	25,50	18,0312	26,22	26,00	25,10	0,815	0,833	0,860	0,906
52	26,00	18,3848	26,72	26,50	25,60	0,815	0,833	0,861	0,906
53	26,50	18,7383	27,22	27,00	26,10	0,815	0,834	0,861	0,906
54	27,00	19,0919	27,72	27,50	26,60	0,815	0,834	0,861	0,907
55	27,50	19,4454	28,22	28,00	27,10	0,815	0,834	0,861	0,907
56	28,00	19,7990	28,72	28,50	27,60	0,816	0,834	0,861	0,907
57	28,50	20,1525	29,22	29,00	28,10	0,816	0,834	0,862	0,908
58	29,00	20,5061	29,72	29,50	28,60	0,816	0,834	0,862	0,908
59	29,50	20,8597	30,22	30,00	29,10	0,816	0,834	0,862	0,908
60	30,00	21,2132	30,72	30,50	29,60	0,816	0,834	0,862	0,909
61	30,50	21,5668	31,22	31,00	30,10	0,816	0,835	0,863	0,909
62	31,00	21,9203	31,72	31,50	30,60	0,816	0,835	0,863	0,909
63	31,50	22,2739	32,22	32,00	31,10	0,816	0,835	0,863	0,910
64	32,00	22,6274	32,72	32,50	31,60	0,816	0,835	0,863	0,910
65	32,50	22,9810	33,23	33,00	32,10	0,816	0,835	0,863	0,910
66	33,00	23,3345	33,73	33,50	32,60	0,816	0,835	0,863	0,911
67	33,50	23,6881	34,23	34,00	33,10	0,816	0,835	0,864	0,911
68	34,00	24,0416	34,73	34,50	33,60	0,817	0,835	0,864	0,911
69	34,50	24,3952	35,23	35,00	34,10	0,817	0,836	0,864	0,912
70	35,00	24,7487	35,73	35,50	34,60	0,817	0,836	0,864	0,912
71	35,50	25,1023	36,23	36,00	35,10	0,817	0,836	0,864	0,912
72	36,00	25,4558	36,73	36,50	35,60	0,817	0,836	0,865	0,912
73	36,50	25,8094	37,23	37,00	36,10	0,817	0,836	0,865	0,913
74	37,00	26,1630	37,73	37,50	36,60	0,817	0,836	0,865	0,913
75	37,50	26,5165	38,23	38,00	37,10	0,817	0,836	0,865	0,913
76	38,00	26,8701	38,73	38,50	37,60	0,817	0,836	0,865	0,914
77	38,50	27,2236	39,23	39,00	38,10	0,817	0,837	0,866	0,914
78	39,00	27,5772	39,73	39,50	38,60	0,817	0,837	0,866	0,914
79	39,50	27,9307	40,23	40,00	39,10	0,817	0,837	0,866	0,914
80	40,00	28,2843	40,73	40,50	39,60	0,817	0,837	0,866	0,915
81	40,50	28,6378	41,23	41,00	40,10	0,817	0,837	0,866	0,915
82	41,00	28,9914	41,73	41,50	40,60	0,818	0,837	0,866	0,915
83	41,50	29,3449	42,23	42,00	41,10	0,818	0,837	0,867	0,916
84	42,00	29,6985	42,73	42,50	41,60	0,818	0,837	0,867	0,916
85	42,50	30,0520	43,23	43,00	42,10	0,818	0,837	0,867	0,916
86	43,00	30,4056	43,73	43,50	42,60	0,818	0,838	0,867	0,916
87	43,50	30,7591	44,23	44,00	43,10	0,818	0,838	0,867	0,917
88	44,00	31,1127	44,73	44,50	43,60	0,818	0,838	0,867	0,917
89	44,50	31,4663	45,23	45,00	44,10	0,818	0,838	0,868	0,917
90	45,00	31,8198	45,73	45,50	44,60	0,818	0,838	0,868	0,917
91	45,50	32,1734	46,23	46,00	45,10	0,818	0,838	0,868	0,918
92	46,00	32,5269	46,73	46,50	45,60	0,818	0,838	0,868	0,918
93	46,50	32,8805	47,23	47,00	46,10	0,818	0,838	0,868	0,918
94	47,00	33,2340	47,73	47,50	46,60	0,818	0,838	0,868	0,918
95	47,50	33,5876	48,23	48,00	47,10	0,818	0,838	0,869	0,919
96	48,00	33,9411	48,73	48,50	47,60	0,818	0,839	0,869	0,919
97	48,50	34,2947	49,23	49,00	48,10	0,819	0,839	0,869	0,919
98	49,00	34,6482	49,73	49,50	48,60	0,819	0,839	0,869	0,919
99	49,50	35,0018	50,23	50,00	49,10	0,819	0,839	0,869	0,920
100	50,00	35,3553	50,73	50,50	49,60	0,819	0,839	0,869	0,920

Table 118 — Geometry external spline, $\alpha = 45°$, $m = 0{,}5$, fillet root, $S_{v\ max} = 0{,}785$

z	D	D_b	$D_{ee\ max}$	$D_{Fe\ max}$	$D_{ie\ min}$	S_{min}			
						4h	5h	6h	7h
6	3,00	2,1213	3,40	2,55	2,31	0,762	0,748	0,727	0,692
7	3,50	2,4749	3,90	3,04	2,81	0,761	0,747	0,726	0,691
8	4,00	2,8284	4,40	3,54	3,30	0,761	0,747	0,725	0,690
9	4,50	3,1820	4,90	4,03	3,80	0,761	0,746	0,725	0,689
10	5,00	3,5355	5,40	4,53	4,30	0,761	0,746	0,724	0,687
11	5,50	3,8891	5,90	5,02	4,80	0,760	0,746	0,723	0,686
12	6,00	4,2426	6,40	5,52	5,30	0,760	0,745	0,723	0,686
13	6,50	4,5962	6,90	6,02	5,80	0,760	0,745	0,722	0,685
14	7,00	4,9497	7,40	6,52	6,30	0,760	0,744	0,722	0,684
15	7,50	5,3033	7,90	7,02	6,80	0,759	0,744	0,721	0,683
16	8,00	5,6569	8,40	7,52	7,30	0,759	0,744	0,721	0,682
17	8,50	6,0104	8,90	8,02	7,80	0,759	0,744	0,720	0,681
18	9,00	6,3640	9,40	8,51	8,30	0,759	0,743	0,720	0,681
19	9,50	6,7175	9,90	9,01	8,79	0,759	0,743	0,719	0,680
20	10,00	7,0711	10,40	9,51	9,29	0,759	0,743	0,719	0,679
21	10,50	7,4246	10,90	10,01	9,79	0,758	0,742	0,719	0,679
22	11,00	7,7782	11,40	10,51	10,29	0,758	0,742	0,718	0,678
23	11,50	8,1317	11,90	11,01	10,79	0,758	0,742	0,718	0,677
24	12,00	8,4853	12,40	11,51	11,29	0,758	0,742	0,717	0,677
25	12,50	8,8388	12,90	12,01	11,79	0,758	0,741	0,717	0,676
26	13,00	9,1924	13,40	12,51	12,29	0,758	0,741	0,717	0,676
27	13,50	9,5459	13,90	13,01	12,79	0,758	0,741	0,716	0,675
28	14,00	9,8995	14,40	13,51	13,29	0,757	0,741	0,716	0,675
29	14,50	10,2530	14,90	14,01	13,79	0,757	0,741	0,716	0,674
30	15,00	10,6066	15,40	14,51	14,29	0,757	0,740	0,715	0,673
31	15,50	10,9602	15,90	15,01	14,79	0,757	0,740	0,715	0,673
32	16,00	11,3137	16,40	15,51	15,29	0,757	0,740	0,715	0,672
33	16,50	11,6673	16,90	16,01	15,79	0,757	0,740	0,714	0,672
34	17,00	12,0208	17,40	16,51	16,29	0,757	0,740	0,714	0,671
35	17,50	12,3744	17,90	17,01	16,79	0,757	0,739	0,714	0,671
36	18,00	12,7279	18,40	17,51	17,29	0,756	0,739	0,713	0,671
37	18,50	13,0815	18,90	18,01	17,79	0,756	0,739	0,713	0,670
38	19,00	13,4350	19,40	18,51	18,28	0,756	0,739	0,713	0,670
39	19,50	13,7886	19,90	19,01	18,78	0,756	0,739	0,713	0,669
40	20,00	14,1421	20,40	19,51	19,28	0,756	0,739	0,712	0,669
41	20,50	14,4957	20,90	20,01	19,78	0,756	0,738	0,712	0,668
42	21,00	14,8492	21,40	20,51	20,28	0,756	0,738	0,712	0,668
43	21,50	15,2028	21,90	21,01	20,78	0,756	0,738	0,712	0,668
44	22,00	15,5563	22,40	21,51	21,28	0,756	0,738	0,711	0,667
45	22,50	15,9099	22,90	22,01	21,78	0,755	0,738	0,711	0,667
46	23,00	16,2635	23,40	22,51	22,28	0,755	0,738	0,711	0,666
47	23,50	16,6170	23,90	23,01	22,78	0,755	0,737	0,711	0,666
48	24,00	16,9706	24,40	23,51	23,28	0,755	0,737	0,710	0,666
49	24,50	17,3241	24,90	24,01	23,78	0,755	0,737	0,710	0,665
50	25,00	17,6777	25,40	24,51	24,28	0,755	0,737	0,710	0,665
51	25,50	18,0312	25,90	25,00	24,78	0,755	0,737	0,710	0,664
52	26,00	18,3848	26,40	25,50	25,28	0,755	0,737	0,709	0,664
53	26,50	18,7383	26,90	26,00	25,78	0,755	0,736	0,709	0,664
54	27,00	19,0919	27,40	26,50	26,28	0,755	0,736	0,709	0,663
55	27,50	19,4454	27,90	27,00	26,78	0,755	0,736	0,709	0,663
56	28,00	19,7990	28,40	27,50	27,28	0,754	0,736	0,709	0,663
57	28,50	20,1525	28,90	28,00	27,78	0,754	0,736	0,708	0,662
58	29,00	20,5061	29,40	28,50	28,28	0,754	0,736	0,708	0,662
59	29,50	20,8597	29,90	29,00	28,78	0,754	0,736	0,708	0,662
60	30,00	21,2132	30,40	29,50	29,28	0,754	0,736	0,708	0,661
61	30,50	21,5668	30,90	30,00	29,78	0,754	0,735	0,707	0,661
62	31,00	21,9203	31,40	30,50	30,28	0,754	0,735	0,707	0,661
63	31,50	22,2739	31,90	31,00	30,78	0,754	0,735	0,707	0,660
64	32,00	22,6274	32,40	31,50	31,28	0,754	0,735	0,707	0,660
65	32,50	22,9810	32,90	32,00	31,77	0,754	0,735	0,707	0,660
66	33,00	23,3345	33,40	32,50	32,27	0,754	0,735	0,707	0,659
67	33,50	23,6881	33,90	33,00	32,77	0,754	0,735	0,706	0,659
68	34,00	24,0416	34,40	33,50	33,27	0,753	0,735	0,706	0,659
69	34,50	24,3952	34,90	34,00	33,77	0,753	0,734	0,706	0,658
70	35,00	24,7487	35,40	34,50	34,27	0,753	0,734	0,706	0,658
71	35,50	25,1023	35,90	35,00	34,77	0,753	0,734	0,706	0,658
72	36,00	25,4558	36,40	35,50	35,27	0,753	0,734	0,705	0,658
73	36,50	25,8094	36,90	36,00	35,77	0,753	0,734	0,705	0,657
74	37,00	26,1630	37,40	36,50	36,27	0,753	0,734	0,705	0,657
75	37,50	26,5165	37,90	37,00	36,77	0,753	0,734	0,705	0,657
76	38,00	26,8701	38,40	37,50	37,27	0,753	0,734	0,705	0,656
77	38,50	27,2236	38,90	38,00	37,77	0,753	0,733	0,704	0,656
78	39,00	27,5772	39,40	38,50	38,27	0,753	0,733	0,704	0,656
79	39,50	27,9307	39,90	39,00	38,77	0,753	0,733	0,704	0,656
80	40,00	28,2843	40,40	39,50	39,27	0,753	0,733	0,704	0,655
81	40,50	28,6378	40,90	40,00	39,77	0,753	0,733	0,704	0,655
82	41,00	28,9914	41,40	40,50	40,27	0,752	0,733	0,704	0,655
83	41,50	29,3449	41,90	41,00	40,77	0,752	0,733	0,703	0,654
84	42,00	29,6985	42,40	41,50	41,27	0,752	0,733	0,703	0,654
85	42,50	30,0520	42,90	42,00	41,77	0,752	0,733	0,703	0,654
86	43,00	30,4056	43,40	42,50	42,27	0,752	0,732	0,703	0,654
87	43,50	30,7591	43,90	43,00	42,77	0,752	0,732	0,703	0,653
88	44,00	31,1127	44,40	43,50	43,27	0,752	0,732	0,703	0,653
89	44,50	31,4663	44,90	44,00	43,77	0,752	0,732	0,702	0,653
90	45,00	31,8198	45,40	44,50	44,27	0,752	0,732	0,702	0,653
91	45,50	32,1734	45,90	45,00	44,77	0,752	0,732	0,702	0,652
92	46,00	32,5269	46,40	45,50	45,27	0,752	0,732	0,702	0,652
93	46,50	32,8805	46,90	46,00	45,77	0,752	0,732	0,702	0,652
94	47,00	33,2340	47,40	46,50	46,27	0,752	0,732	0,702	0,652
95	47,50	33,5876	47,90	47,00	46,77	0,752	0,732	0,701	0,651
96	48,00	33,9411	48,40	47,50	47,27	0,752	0,731	0,701	0,651
97	48,50	34,2947	48,90	48,00	47,77	0,751	0,731	0,701	0,651
98	49,00	34,6482	49,40	48,50	48,27	0,751	0,731	0,701	0,651
99	49,50	35,0018	49,90	49,00	48,77	0,751	0,731	0,701	0,650
100	50,00	35,3553	50,40	49,50	49,27	0,751	0,731	0,701	0,650

Table 119 — Inspection dimensions internal spline, $\alpha = 45°$, $m = 0{,}5$, $E_{v\,min} = 0{,}785$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	0,90	1,557	1,575	1,564	1,594	1,573	1,622	1,589	1,666	1,257
7	0,95	1,857	1,874	1,863	1,893	1,873	1,920	1,889	1,964	1,229
8	0,95	2,444	2,461	2,451	2,479	2,460	2,506	2,475	2,549	1,201
9	1,00	2,758	2,775	2,764	2,793	2,774	2,820	2,789	2,863	1,191
10	1,00	3,326	3,343	3,333	3,361	3,342	3,387	3,356	3,430	1,173
11	1,00	3,785	3,801	3,791	3,818	3,799	3,844	3,814	3,886	1,137
12	1,00	4,340	4,356	4,346	4,373	4,354	4,398	4,369	4,441	1,129
13	1,00	4,801	4,817	4,808	4,834	4,816	4,860	4,830	4,901	1,107
14	1,06	5,191	5,207	5,197	5,224	5,206	5,250	5,220	5,293	1,128
15	1,06	5,658	5,674	5,664	5,691	5,673	5,717	5,687	5,760	1,109
16	1,06	6,199	6,215	6,205	6,232	6,214	6,258	6,228	6,301	1,105
17	1,06	6,669	6,684	6,675	6,702	6,684	6,727	6,698	6,770	1,092
18	1,06	7,205	7,220	7,211	7,237	7,220	7,263	7,234	7,306	1,089
19	1,06	7,677	7,692	7,683	7,710	7,692	7,735	7,706	7,778	1,079
20	1,06	8,209	8,224	8,215	8,242	8,224	8,268	8,238	8,310	1,078
21	1,06	8,683	8,699	8,690	8,716	8,699	8,742	8,713	8,785	1,070
22	1,06	9,212	9,228	9,219	9,245	9,228	9,271	9,242	9,314	1,069
23	1,06	9,689	9,704	9,695	9,721	9,704	9,747	9,718	9,790	1,062
24	1,06	10,215	10,231	10,222	10,248	10,231	10,274	10,245	10,317	1,061
25	1,06	10,693	10,709	10,700	10,726	10,709	10,752	10,723	10,795	1,056
26	1,06	11,218	11,233	11,224	11,250	11,233	11,277	11,248	11,320	1,056
27	1,06	11,697	11,712	11,703	11,730	11,712	11,756	11,727	11,799	1,051
28	1,06	12,220	12,235	12,226	12,252	12,235	12,279	12,250	12,322	1,051
29	1,06	12,700	12,716	12,707	12,733	12,716	12,759	12,731	12,803	1,047
30	1,06	13,221	13,237	13,228	13,254	13,237	13,281	13,252	13,325	1,047
31	1,06	13,703	13,718	13,710	13,736	13,719	13,762	13,734	13,806	1,044
32	1,06	14,223	14,238	14,229	14,256	14,239	14,282	14,254	14,326	1,043
33	1,12	14,556	14,572	14,563	14,590	14,572	14,616	14,587	14,661	1,048
34	1,12	15,075	15,090	15,082	15,108	15,091	15,135	15,106	15,180	1,047
35	1,12	15,559	15,574	15,566	15,592	15,575	15,619	15,590	15,664	1,044
36	1,12	16,076	16,092	16,083	16,110	16,093	16,137	16,108	16,182	1,044
37	1,12	16,561	16,576	16,568	16,595	16,577	16,622	16,593	16,666	1,042
38	1,12	17,078	17,093	17,085	17,111	17,094	17,138	17,109	17,183	1,041
39	1,12	17,563	17,578	17,570	17,597	17,580	17,624	17,595	17,669	1,039
40	1,12	18,079	18,094	18,086	18,112	18,095	18,140	18,111	18,185	1,039
41	1,12	18,565	18,580	18,572	18,599	18,582	18,626	18,597	18,671	1,037
42	1,12	19,080	19,095	19,087	19,114	19,097	19,141	19,112	19,187	1,037
43	1,12	19,567	19,582	19,574	19,600	19,583	19,628	19,599	19,673	1,035
44	1,12	20,081	20,096	20,088	20,115	20,098	20,142	20,113	20,188	1,035
45	1,12	20,568	20,584	20,575	20,602	20,585	20,630	20,601	20,675	1,033
46	1,12	21,082	21,097	21,089	21,116	21,099	21,143	21,115	21,189	1,033
47	1,12	21,570	21,585	21,577	21,603	21,587	21,631	21,602	21,677	1,032
48	1,12	22,083	22,098	22,090	22,117	22,100	22,144	22,116	22,191	1,031
49	1,12	22,571	22,586	22,578	22,605	22,588	22,633	22,604	22,679	1,030
50	1,12	23,084	23,099	23,091	23,117	23,101	23,145	23,117	23,192	1,030
51	1,12	23,572	23,587	23,579	23,606	23,589	23,634	23,605	23,681	1,029
52	1,12	24,084	24,100	24,092	24,118	24,102	24,146	24,118	24,193	1,029
53	1,12	24,573	24,589	24,581	24,607	24,591	24,635	24,607	24,682	1,028
54	1,12	25,085	25,100	25,092	25,119	25,102	25,147	25,119	25,194	1,027
55	1,12	25,574	25,590	25,582	25,608	25,592	25,637	25,608	25,684	1,027
56	1,12	26,086	26,101	26,093	26,120	26,103	26,148	26,120	26,195	1,026
57	1,12	26,575	26,591	26,583	26,610	26,593	26,638	26,609	26,685	1,025
58	1,12	27,086	27,101	27,094	27,120	27,104	27,149	27,120	27,196	1,025
59	1,12	27,576	27,591	27,584	27,611	27,594	27,639	27,611	27,686	1,025
60	1,12	28,087	28,102	28,094	28,121	28,105	28,150	28,121	28,197	1,024
61	1,12	28,577	28,592	28,585	28,611	28,595	28,640	28,612	28,688	1,024
62	1,12	29,087	29,102	29,095	29,122	29,105	29,150	29,122	29,198	1,024
63	1,12	29,578	29,593	29,586	29,612	29,596	29,641	29,613	29,689	1,023
64	1,12	30,088	30,103	30,095	30,122	30,106	30,151	30,123	30,199	1,023
65	1,12	30,579	30,594	30,586	30,613	30,597	30,642	30,614	30,690	1,022
66	1,12	31,088	31,103	31,096	31,123	31,107	31,152	31,123	31,200	1,022
67	1,12	31,580	31,595	31,587	31,614	31,598	31,643	31,615	31,691	1,021
68	1,12	32,089	32,104	32,096	32,123	32,107	32,152	32,124	32,201	1,021
69	1,12	32,580	32,595	32,588	32,615	32,599	32,644	32,616	32,692	1,021
70	1,12	33,089	33,104	33,097	33,124	33,108	33,153	33,125	33,202	1,021
71	1,12	33,581	33,596	33,589	33,616	33,600	33,645	33,617	33,693	1,020
72	1,12	34,090	34,105	34,097	34,124	34,108	34,154	34,125	34,202	1,020
73	1,12	34,582	34,597	34,589	34,616	34,600	34,646	34,618	34,694	1,019
74	1,12	35,090	35,105	35,098	35,125	35,109	35,154	35,126	35,203	1,019
75	1,12	35,582	35,597	35,590	35,617	35,601	35,646	35,618	35,695	1,019
76	1,12	36,090	36,106	36,098	36,125	36,109	36,155	36,127	36,204	1,019
77	1,12	36,583	36,598	36,591	36,618	36,602	36,647	36,619	36,696	1,018
78	1,12	37,091	37,106	37,099	37,126	37,110	37,155	37,127	37,205	1,018
79	1,12	37,583	37,598	37,591	37,618	37,602	37,648	37,620	37,697	1,018
80	1,12	38,091	38,106	38,099	38,126	38,110	38,156	38,128	38,205	1,018
81	1,12	38,584	38,599	38,592	38,619	38,603	38,649	38,621	38,698	1,017
82	1,12	39,092	39,107	39,100	39,126	39,111	39,156	39,129	39,206	1,017
83	1,12	39,584	39,599	39,592	39,619	39,604	39,649	39,622	39,699	1,017
84	1,12	40,092	40,107	40,100	40,127	40,111	40,157	40,129	40,207	1,017
85	1,12	40,585	40,600	40,593	40,620	40,604	40,650	40,622	40,700	1,016
86	1,12	41,092	41,107	41,100	41,127	41,112	41,157	41,130	41,207	1,016
87	1,12	41,585	41,600	41,594	41,620	41,605	41,651	41,623	41,701	1,016
88	1,12	42,093	42,108	42,101	42,128	42,112	42,158	42,130	42,208	1,016
89	1,12	42,586	42,601	42,594	42,621	42,606	42,651	42,624	42,702	1,016
90	1,12	43,093	43,108	43,101	43,128	43,113	43,158	43,131	43,209	1,016
91	1,12	43,586	43,601	43,595	43,622	43,606	43,652	43,624	43,702	1,015
92	1,12	44,093	44,108	44,101	44,128	44,113	44,159	44,131	44,209	1,015
93	1,12	44,587	44,602	44,595	44,622	44,607	44,652	44,625	44,703	1,015
94	1,12	45,093	45,108	45,102	45,129	45,113	45,159	45,132	45,210	1,015
95	1,12	45,587	45,602	45,596	45,622	45,607	45,653	45,626	45,704	1,015
96	1,12	46,094	46,109	46,102	46,129	46,114	46,160	46,132	46,211	1,015
97	1,12	46,588	46,602	46,596	46,623	46,608	46,654	46,626	46,705	1,014
98	1,12	47,094	47,109	47,102	47,129	47,114	47,160	47,133	47,211	1,014
99	1,12	47,588	47,603	47,596	47,623	47,608	47,654	47,627	47,705	1,014
100	1,12	48,094	48,109	48,103	48,130	48,115	48,160	48,133	48,212	1,014

Table 120 — Inspection dimensions external spline, $\alpha = 45°$, $m = 0{,}5$, $S_{v\,max} = 0{,}785$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	1,60	5,878	5,889	5,867	5,885	5,850	5,879	5,821	5,869	0,818
7	1,50	6,058	6,068	6,046	6,064	6,029	6,058	6,000	6,049	0,817
8	1,50	6,685	6,696	6,673	6,692	6,655	6,686	6,625	6,676	0,848
9	1,40	6,888	6,900	6,876	6,895	6,857	6,889	6,827	6,879	0,853
10	1,40	7,479	7,491	7,466	7,487	7,447	7,480	7,415	7,469	0,874
11	1,32	7,739	7,751	7,726	7,747	7,707	7,740	7,674	7,729	0,880
12	1,32	8,309	8,322	8,296	8,317	8,276	8,310	8,243	8,299	0,895
13	1,32	8,758	8,771	8,745	8,766	8,725	8,759	8,691	8,748	0,894
14	1,32	9,316	9,329	9,303	9,324	9,282	9,317	9,248	9,306	0,905
15	1,25	9,613	9,626	9,599	9,621	9,578	9,614	9,544	9,602	0,911
16	1,25	10,161	10,174	10,147	10,169	10,126	10,162	10,091	10,150	0,920
17	1,25	10,623	10,636	10,609	10,631	10,588	10,624	10,552	10,612	0,920
18	1,25	11,165	11,178	11,151	11,173	11,129	11,166	11,093	11,154	0,927
19	1,25	11,631	11,644	11,617	11,639	11,595	11,632	11,558	11,620	0,927
20	1,25	12,168	12,181	12,154	12,176	12,131	12,169	12,095	12,156	0,933
21	1,25	12,638	12,651	12,623	12,646	12,601	12,638	12,563	12,626	0,933
22	1,25	13,171	13,184	13,156	13,179	13,133	13,171	13,096	13,159	0,938
23	1,25	13,643	13,656	13,628	13,651	13,605	13,643	13,568	13,631	0,938
24	1,25	14,173	14,186	14,158	14,181	14,135	14,173	14,097	14,160	0,942
25	1,25	14,648	14,661	14,632	14,655	14,609	14,648	14,571	14,635	0,942
26	1,25	15,175	15,188	15,159	15,183	15,136	15,175	15,098	15,162	0,945
27	1,25	15,651	15,665	15,636	15,659	15,613	15,651	15,574	15,638	0,946
28	1,18	16,013	16,026	15,997	16,021	15,973	16,013	15,934	15,999	0,954
29	1,18	16,491	16,505	16,475	16,499	16,451	16,491	16,412	16,477	0,954
30	1,18	17,014	17,028	16,998	17,022	16,974	17,014	16,934	17,000	0,956
31	1,18	17,493	17,507	17,477	17,501	17,453	17,493	17,413	17,480	0,956
32	1,18	18,015	18,029	17,999	18,023	17,975	18,014	17,934	18,001	0,959
33	1,18	18,496	18,510	18,479	18,504	18,455	18,495	18,415	18,482	0,959
34	1,18	19,016	19,030	18,999	19,024	18,975	19,015	18,934	19,001	0,961
35	1,18	19,498	19,512	19,481	19,505	19,457	19,497	19,416	19,483	0,961
36	1,18	20,016	20,030	20,000	20,024	19,975	20,016	19,934	20,002	0,963
37	1,18	20,499	20,513	20,483	20,507	20,458	20,499	20,417	20,485	0,963
38	1,18	21,017	21,031	21,000	21,025	20,976	21,016	20,934	21,002	0,965
39	1,18	21,501	21,515	21,484	21,509	21,459	21,500	21,417	21,486	0,965
40	1,18	22,018	22,032	22,001	22,025	21,976	22,017	21,934	22,002	0,966
41	1,18	22,502	22,516	22,485	22,510	22,460	22,501	22,418	22,487	0,966
42	1,18	23,018	23,032	23,001	23,026	22,976	23,017	22,933	23,003	0,968
43	1,18	23,504	23,518	23,487	23,511	23,461	23,502	23,418	23,488	0,968
44	1,18	24,019	24,033	24,002	24,026	23,976	24,017	23,933	24,003	0,969
45	1,18	24,505	24,519	24,488	24,512	24,462	24,503	24,419	24,489	0,969
46	1,18	25,019	25,033	25,002	25,027	24,976	25,018	24,933	25,003	0,970
47	1,18	25,506	25,520	25,488	25,513	25,462	25,504	25,419	25,489	0,970
48	1,18	26,019	26,034	26,002	26,027	25,976	26,018	25,933	26,003	0,971
49	1,18	26,507	26,521	26,489	26,514	26,463	26,505	26,419	26,490	0,971
50	1,18	27,020	27,034	27,002	27,027	26,976	27,018	26,932	27,003	0,972
51	1,18	27,507	27,522	27,490	27,515	27,464	27,506	27,420	27,491	0,972
52	1,18	28,020	28,034	28,003	28,028	27,976	28,018	27,932	28,003	0,973
53	1,18	28,508	28,523	28,491	28,516	28,464	28,506	28,420	28,491	0,973
54	1,18	29,020	29,035	29,003	29,028	28,976	29,018	28,932	29,003	0,974
55	1,18	29,509	29,523	29,491	29,516	29,464	29,507	29,420	29,491	0,974
56	1,18	30,021	30,035	30,003	30,028	29,976	30,018	29,931	30,003	0,975
57	1,18	30,510	30,524	30,492	30,517	30,465	30,507	30,420	30,492	0,975
58	1,18	31,021	31,035	31,003	31,028	30,976	31,018	30,931	31,003	0,976
59	1,18	31,510	31,525	31,492	31,518	31,465	31,508	31,420	31,492	0,976
60	1,18	32,021	32,035	32,003	32,028	31,976	32,019	31,931	32,003	0,977
61	1,18	32,511	32,525	32,493	32,518	32,465	32,508	32,420	32,492	0,977
62	1,18	33,021	33,036	33,003	33,029	32,976	33,019	32,930	33,003	0,977
63	1,18	33,511	33,526	33,493	33,519	33,466	33,509	33,420	33,493	0,977
64	1,18	34,021	34,036	34,003	34,029	33,976	34,019	33,930	34,003	0,978
65	1,18	34,512	34,526	34,493	34,519	34,466	34,509	34,420	34,493	0,978
66	1,18	35,022	35,036	35,003	35,029	34,976	35,019	34,930	35,003	0,979
67	1,18	35,512	35,527	35,494	35,519	35,466	35,509	35,420	35,493	0,979
68	1,18	36,022	36,036	36,003	36,029	35,975	36,019	35,929	36,002	0,979
69	1,18	36,513	36,527	36,494	36,520	36,466	36,509	36,420	36,493	0,979
70	1,18	37,022	37,036	37,003	37,029	36,975	37,019	36,929	37,002	0,980
71	1,18	37,513	37,527	37,494	37,520	37,466	37,510	37,420	37,493	0,980
72	1,18	38,022	38,036	38,003	38,029	37,975	38,019	37,928	38,002	0,980
73	1,18	38,513	38,528	38,495	38,520	38,466	38,510	38,420	38,493	0,980
74	1,18	39,022	39,036	39,003	39,029	38,975	39,018	38,928	39,002	0,981
75	1,18	39,514	39,528	39,495	39,521	39,467	39,510	39,419	39,493	0,981
76	1,18	40,022	40,037	40,003	40,029	39,975	40,018	39,928	40,002	0,981
77	1,18	40,514	40,528	40,495	40,521	40,467	40,510	40,419	40,494	0,981
78	1,18	41,022	41,037	41,003	41,029	40,975	41,018	40,927	41,002	0,982
79	1,18	41,514	41,529	41,495	41,521	41,467	41,510	41,419	41,494	0,982
80	1,18	42,022	42,037	42,003	42,029	41,975	42,018	41,927	42,001	0,982
81	1,18	42,515	42,529	42,495	42,521	42,467	42,511	42,419	42,494	0,982
82	1,18	43,022	43,037	43,003	43,029	42,974	43,018	42,926	43,001	0,983
83	1,18	43,515	43,529	43,496	43,522	43,467	43,511	43,419	43,494	0,983
84	1,18	44,022	44,037	44,003	44,029	43,974	44,018	43,926	44,001	0,983
85	1,18	44,515	44,529	44,496	44,522	44,467	44,511	44,419	44,494	0,983
86	1,18	45,022	45,037	45,003	45,029	44,974	45,018	44,926	45,001	0,984
87	1,18	45,515	45,530	45,496	45,522	45,467	45,511	45,418	45,494	0,984
88	1,18	46,023	46,037	46,003	46,029	45,974	46,018	45,925	46,001	0,984
89	1,18	46,516	46,530	46,496	46,522	46,467	46,511	46,418	46,493	0,984
90	1,18	47,023	47,037	47,003	47,029	46,974	47,018	46,925	47,000	0,984
91	1,18	47,516	47,530	47,496	47,522	47,467	47,511	47,418	47,493	0,984
92	1,18	48,023	48,037	48,003	48,029	47,974	48,018	47,925	48,000	0,985
93	1,18	48,516	48,530	48,496	48,522	48,467	48,511	48,418	48,493	0,985
94	1,18	49,023	49,037	49,003	49,029	48,973	49,018	48,924	49,000	0,985
95	1,18	49,516	49,530	49,496	49,522	49,467	49,511	49,417	49,493	0,985
96	1,18	50,023	50,037	50,003	50,029	49,973	50,018	49,924	50,000	0,985
97	1,18	50,516	50,531	50,496	50,522	50,467	50,511	50,417	50,493	0,985
98	1,18	51,023	51,037	51,003	51,029	50,973	51,017	50,923	51,000	0,985
99	1,18	51,516	51,531	51,496	51,523	51,467	51,511	51,417	51,493	0,986
100	1,18	52,023	52,037	52,003	52,029	51,973	52,017	51,923	51,999	0,986

5.31 45° pressure angle, module 0,75

Table 121 — Geometry internal spline, $\alpha = 45°$, $m = 0{,}75$, fillet root, $E_{v\,min} = 1{,}178$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	4,50	3,1820	5,51	5,25	3,97	1,205	1,220	1,244	1,284
7	5,25	3,7123	6,26	6,00	4,71	1,205	1,221	1,245	1,286
8	6,00	4,2426	7,01	6,75	5,45	1,205	1,222	1,246	1,287
9	6,75	4,7730	7,76	7,50	6,20	1,206	1,222	1,247	1,289
10	7,50	5,3033	8,51	8,25	6,94	1,206	1,223	1,248	1,290
11	8,25	5,8336	9,26	9,00	7,69	1,206	1,223	1,249	1,291
12	9,00	6,3640	10,01	9,75	8,43	1,207	1,224	1,249	1,292
13	9,75	6,8943	10,77	10,50	9,18	1,207	1,224	1,250	1,293
14	10,50	7,4246	11,52	11,25	9,93	1,207	1,224	1,251	1,294
15	11,25	7,9550	12,27	12,00	10,68	1,207	1,225	1,251	1,295
16	12,00	8,4853	13,02	12,75	11,42	1,207	1,225	1,252	1,296
17	12,75	9,0156	13,77	13,50	12,17	1,208	1,226	1,252	1,297
18	13,50	9,5459	14,52	14,25	12,92	1,208	1,226	1,253	1,298
19	14,25	10,0763	15,27	15,00	13,67	1,208	1,226	1,253	1,298
20	15,00	10,6066	16,02	15,75	14,42	1,208	1,226	1,254	1,299
21	15,75	11,1369	16,77	16,50	15,17	1,208	1,227	1,254	1,300
22	16,50	11,6673	17,52	17,25	15,92	1,209	1,227	1,255	1,301
23	17,25	12,1976	18,27	18,00	16,67	1,209	1,227	1,255	1,301
24	18,00	12,7279	19,02	18,75	17,42	1,209	1,228	1,256	1,302
25	18,75	13,2583	19,77	19,50	18,17	1,209	1,228	1,256	1,303
26	19,50	13,7886	20,53	20,25	18,91	1,209	1,228	1,256	1,303
27	20,25	14,3189	21,28	21,00	19,66	1,210	1,228	1,257	1,304
28	21,00	14,8492	22,03	21,75	20,41	1,210	1,229	1,257	1,305
29	21,75	15,3796	22,78	22,50	21,16	1,210	1,229	1,258	1,305
30	22,50	15,9099	23,53	23,25	21,91	1,210	1,229	1,258	1,306
31	23,25	16,4402	24,28	24,00	22,66	1,210	1,229	1,258	1,307
32	24,00	16,9706	25,03	24,75	23,41	1,210	1,230	1,259	1,307
33	24,75	17,5009	25,78	25,50	24,16	1,210	1,230	1,259	1,308
34	25,50	18,0312	26,53	26,25	24,91	1,211	1,230	1,259	1,308
35	26,25	18,5616	27,28	27,00	25,66	1,211	1,230	1,260	1,309
36	27,00	19,0919	28,03	27,75	26,41	1,211	1,231	1,260	1,309
37	27,75	19,6222	28,78	28,50	27,16	1,211	1,231	1,260	1,310
38	28,50	20,1525	29,53	29,25	27,91	1,211	1,231	1,261	1,310
39	29,25	20,6829	30,28	30,00	28,66	1,211	1,231	1,261	1,311
40	30,00	21,2132	31,03	30,75	29,41	1,211	1,231	1,261	1,311
41	30,75	21,7435	31,78	31,50	30,16	1,211	1,232	1,262	1,312
42	31,50	22,2739	32,53	32,25	30,91	1,212	1,232	1,262	1,312
43	32,25	22,8042	33,28	33,00	31,66	1,212	1,232	1,262	1,313
44	33,00	23,3345	34,04	33,75	32,41	1,212	1,232	1,263	1,313
45	33,75	23,8649	34,79	34,50	33,16	1,212	1,232	1,263	1,314
46	34,50	24,3952	35,54	35,25	33,91	1,212	1,232	1,263	1,314
47	35,25	24,9255	36,29	36,00	34,66	1,212	1,233	1,263	1,315
48	36,00	25,4558	37,04	36,75	35,41	1,212	1,233	1,264	1,315
49	36,75	25,9862	37,79	37,50	36,16	1,212	1,233	1,264	1,316
50	37,50	26,5165	38,54	38,25	36,91	1,212	1,233	1,264	1,316
51	38,25	27,0468	39,29	39,00	37,66	1,213	1,233	1,265	1,316
52	39,00	27,5772	40,04	39,75	38,41	1,213	1,234	1,265	1,317
53	39,75	28,1075	40,79	40,50	39,16	1,213	1,234	1,265	1,317
54	40,50	28,6378	41,54	41,25	39,91	1,213	1,234	1,265	1,318
55	41,25	29,1682	42,29	42,00	40,66	1,213	1,234	1,266	1,318
56	42,00	29,6985	43,04	42,75	41,41	1,213	1,234	1,266	1,318
57	42,75	30,2288	43,79	43,50	42,16	1,213	1,234	1,266	1,319
58	43,50	30,7591	44,54	44,25	42,91	1,213	1,235	1,266	1,319
59	44,25	31,2895	45,29	45,00	43,66	1,213	1,235	1,267	1,320
60	45,00	31,8198	46,04	45,75	44,41	1,214	1,235	1,267	1,320
61	45,75	32,3501	46,79	46,50	45,16	1,214	1,235	1,267	1,320
62	46,50	32,8805	47,54	47,25	45,91	1,214	1,235	1,267	1,321
63	47,25	33,4108	48,29	48,00	46,66	1,214	1,235	1,267	1,321
64	48,00	33,9411	49,04	48,75	47,41	1,214	1,235	1,268	1,322
65	48,75	34,4715	49,79	49,50	48,16	1,214	1,236	1,268	1,322
66	49,50	35,0018	50,54	50,25	48,91	1,214	1,236	1,268	1,322
67	50,25	35,5321	51,29	51,00	49,66	1,214	1,236	1,268	1,323
68	51,00	36,0624	52,05	51,75	50,41	1,214	1,236	1,269	1,323
69	51,75	36,5928	52,80	52,50	51,16	1,214	1,236	1,269	1,323
70	52,50	37,1231	53,55	53,25	51,91	1,214	1,236	1,269	1,324
71	53,25	37,6534	54,30	54,00	52,66	1,215	1,236	1,269	1,324
72	54,00	38,1838	55,05	54,75	53,41	1,215	1,237	1,270	1,324
73	54,75	38,7141	55,80	55,50	54,16	1,215	1,237	1,270	1,325
74	55,50	39,2444	56,55	56,25	54,91	1,215	1,237	1,270	1,325
75	56,25	39,7748	57,30	57,00	55,66	1,215	1,237	1,270	1,325
76	57,00	40,3051	58,05	57,75	56,40	1,215	1,237	1,270	1,326
77	57,75	40,8354	58,80	58,50	57,15	1,215	1,237	1,271	1,326
78	58,50	41,3657	59,55	59,25	57,90	1,215	1,237	1,271	1,326
79	59,25	41,8961	60,30	60,00	58,65	1,215	1,238	1,271	1,327
80	60,00	42,4264	61,05	60,75	59,40	1,215	1,238	1,271	1,327
81	60,75	42,9567	61,80	61,50	60,15	1,215	1,238	1,271	1,327
82	61,50	43,4871	62,55	62,25	60,90	1,215	1,238	1,272	1,328
83	62,25	44,0174	63,30	63,00	61,65	1,216	1,238	1,272	1,328
84	63,00	44,5477	64,05	63,75	62,40	1,216	1,238	1,272	1,328
85	63,75	45,0781	64,80	64,50	63,15	1,216	1,238	1,272	1,329
86	64,50	45,6084	65,55	65,25	63,90	1,216	1,238	1,272	1,329
87	65,25	46,1387	66,30	66,00	64,65	1,216	1,239	1,273	1,329
88	66,00	46,6690	67,05	66,75	65,40	1,216	1,239	1,273	1,330
89	66,75	47,1994	67,80	67,50	66,15	1,216	1,239	1,273	1,330
90	67,50	47,7297	68,55	68,25	66,90	1,216	1,239	1,273	1,330
91	68,25	48,2600	69,30	69,00	67,65	1,216	1,239	1,273	1,331
92	69,00	48,7904	70,05	69,75	68,40	1,216	1,239	1,274	1,331
93	69,75	49,3207	70,80	70,50	69,15	1,216	1,239	1,274	1,331
94	70,50	49,8510	71,55	71,25	69,90	1,216	1,239	1,274	1,331
95	71,25	50,3814	72,30	72,00	70,65	1,216	1,239	1,274	1,332
96	72,00	50,9117	73,05	72,75	71,40	1,216	1,240	1,274	1,332
97	72,75	51,4420	73,80	73,50	72,15	1,217	1,240	1,274	1,332
98	73,50	51,9723	74,55	74,25	72,90	1,217	1,240	1,275	1,333
99	74,25	52,5027	75,30	75,00	73,65	1,217	1,240	1,275	1,333
100	75,00	53,0330	76,06	75,75	74,40	1,217	1,240	1,275	1,333

Table 122 — Geometry external spline, $\alpha = 45°$, $m = 0{,}75$, fillet root, $S_{v\,max} = 1{,}178$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	4,50	3,1820	5,10	3,82	3,49	1,151	1,136	1,112	1,072
7	5,25	3,7123	5,85	4,56	4,24	1,151	1,135	1,111	1,070
8	6,00	4,2426	6,60	5,30	4,99	1,151	1,134	1,110	1,069
9	6,75	4,7730	7,35	6,05	5,74	1,150	1,134	1,109	1,067
10	7,50	5,3033	8,10	6,79	6,49	1,150	1,133	1,108	1,066
11	8,25	5,8336	8,85	7,54	7,24	1,150	1,133	1,107	1,065
12	9,00	6,3640	9,60	8,28	7,99	1,149	1,132	1,107	1,064
13	9,75	6,8943	10,35	9,03	8,73	1,149	1,132	1,106	1,063
14	10,50	7,4246	11,10	9,78	9,48	1,149	1,132	1,105	1,062
15	11,25	7,9550	11,85	10,53	10,23	1,149	1,131	1,105	1,061
16	12,00	8,4853	12,60	11,27	10,98	1,149	1,131	1,104	1,060
17	12,75	9,0156	13,35	12,02	11,73	1,148	1,130	1,104	1,059
18	13,50	9,5459	14,10	12,77	12,48	1,148	1,130	1,103	1,058
19	14,25	10,0763	14,85	13,52	13,23	1,148	1,130	1,103	1,058
20	15,00	10,6066	15,60	14,27	13,98	1,148	1,130	1,102	1,057
21	15,75	11,1369	16,35	15,02	14,73	1,148	1,129	1,102	1,056
22	16,50	11,6673	17,10	15,77	15,48	1,147	1,129	1,101	1,055
23	17,25	12,1976	17,85	16,52	16,23	1,147	1,129	1,101	1,055
24	18,00	12,7279	18,60	17,27	16,98	1,147	1,128	1,100	1,054
25	18,75	13,2583	19,35	18,02	17,73	1,147	1,128	1,100	1,053
26	19,50	13,7886	20,10	18,76	18,47	1,147	1,128	1,100	1,053
27	20,25	14,3189	20,85	19,51	19,22	1,146	1,128	1,099	1,052
28	21,00	14,8492	21,60	20,26	19,97	1,146	1,127	1,099	1,051
29	21,75	15,3796	22,35	21,01	20,72	1,146	1,127	1,098	1,051
30	22,50	15,9099	23,10	21,76	21,47	1,146	1,127	1,098	1,050
31	23,25	16,4402	23,85	22,51	22,22	1,146	1,127	1,098	1,049
32	24,00	16,9706	24,60	23,26	22,97	1,146	1,126	1,097	1,049
33	24,75	17,5009	25,35	24,01	23,72	1,146	1,126	1,097	1,048
34	25,50	18,0312	26,10	24,76	24,47	1,145	1,126	1,097	1,048
35	26,25	18,5616	26,85	25,51	25,22	1,145	1,126	1,096	1,047
36	27,00	19,0919	27,60	26,26	25,97	1,145	1,125	1,096	1,047
37	27,75	19,6222	28,35	27,01	26,72	1,145	1,125	1,096	1,046
38	28,50	20,1525	29,10	27,76	27,47	1,145	1,125	1,095	1,046
39	29,25	20,6829	29,85	28,51	28,22	1,145	1,125	1,095	1,045
40	30,00	21,2132	30,60	29,26	28,97	1,145	1,125	1,095	1,045
41	30,75	21,7435	31,35	30,01	29,72	1,145	1,124	1,094	1,044
42	31,50	22,2739	32,10	30,76	30,47	1,144	1,124	1,094	1,044
43	32,25	22,8042	32,85	31,51	31,22	1,144	1,124	1,094	1,043
44	33,00	23,3345	33,60	32,26	31,96	1,144	1,124	1,093	1,043
45	33,75	23,8649	34,35	33,01	32,71	1,144	1,124	1,093	1,042
46	34,50	24,3952	35,10	33,76	33,46	1,144	1,124	1,093	1,042
47	35,25	24,9255	35,85	34,51	34,21	1,144	1,123	1,093	1,041
48	36,00	25,4558	36,60	35,26	34,96	1,144	1,123	1,092	1,041
49	36,75	25,9862	37,35	36,01	35,71	1,144	1,123	1,092	1,040
50	37,50	26,5165	38,10	36,76	36,46	1,144	1,123	1,092	1,040
51	38,25	27,0468	38,85	37,51	37,21	1,143	1,123	1,091	1,040
52	39,00	27,5772	39,60	38,26	37,96	1,143	1,122	1,091	1,039
53	39,75	28,1075	40,35	39,01	38,71	1,143	1,122	1,091	1,039
54	40,50	28,6378	41,10	39,76	39,46	1,143	1,122	1,091	1,038
55	41,25	29,1682	41,85	40,51	40,21	1,143	1,122	1,090	1,038
56	42,00	29,6985	42,60	41,26	40,96	1,143	1,122	1,090	1,038
57	42,75	30,2288	43,35	42,01	41,71	1,143	1,122	1,090	1,037
58	43,50	30,7591	44,10	42,76	42,46	1,143	1,121	1,090	1,037
59	44,25	31,2895	44,85	43,51	43,21	1,143	1,121	1,089	1,036
60	45,00	31,8198	45,60	44,26	43,96	1,142	1,121	1,089	1,036
61	45,75	32,3501	46,35	45,01	44,71	1,142	1,121	1,089	1,036
62	46,50	32,8805	47,10	45,76	45,46	1,142	1,121	1,089	1,035
63	47,25	33,4108	47,85	46,51	46,21	1,142	1,121	1,089	1,035
64	48,00	33,9411	48,60	47,26	46,96	1,142	1,121	1,088	1,034
65	48,75	34,4715	49,35	48,01	47,71	1,142	1,120	1,088	1,034
66	49,50	35,0018	50,10	48,76	48,46	1,142	1,120	1,088	1,034
67	50,25	35,5321	50,85	49,51	49,21	1,142	1,120	1,088	1,033
68	51,00	36,0624	51,60	50,26	49,95	1,142	1,120	1,087	1,033
69	51,75	36,5928	52,35	51,01	50,70	1,142	1,120	1,087	1,033
70	52,50	37,1231	53,10	51,76	51,45	1,142	1,120	1,087	1,032
71	53,25	37,6534	53,85	52,51	52,20	1,141	1,120	1,087	1,032
72	54,00	38,1838	54,60	53,26	52,95	1,141	1,119	1,086	1,032
73	54,75	38,7141	55,35	54,01	53,70	1,141	1,119	1,086	1,031
74	55,50	39,2444	56,10	54,76	54,45	1,141	1,119	1,086	1,031
75	56,25	39,7748	56,85	55,51	55,20	1,141	1,119	1,086	1,031
76	57,00	40,3051	57,60	56,25	55,95	1,141	1,119	1,086	1,030
77	57,75	40,8354	58,35	57,00	56,70	1,141	1,119	1,085	1,030
78	58,50	41,3657	59,10	57,75	57,45	1,141	1,119	1,085	1,030
79	59,25	41,8961	59,85	58,50	58,20	1,141	1,118	1,085	1,029
80	60,00	42,4264	60,60	59,25	58,95	1,141	1,118	1,085	1,029
81	60,75	42,9567	61,35	60,00	59,70	1,141	1,118	1,085	1,029
82	61,50	43,4871	62,10	60,75	60,45	1,141	1,118	1,084	1,028
83	62,25	44,0174	62,85	61,50	61,20	1,140	1,118	1,084	1,028
84	63,00	44,5477	63,60	62,25	61,95	1,140	1,118	1,084	1,028
85	63,75	45,0781	64,35	63,00	62,70	1,140	1,118	1,084	1,027
86	64,50	45,6084	65,10	63,75	63,45	1,140	1,118	1,084	1,027
87	65,25	46,1387	65,85	64,50	64,20	1,140	1,117	1,083	1,027
88	66,00	46,6690	66,60	65,25	64,95	1,140	1,117	1,083	1,026
89	66,75	47,1994	67,35	66,00	65,70	1,140	1,117	1,083	1,026
90	67,50	47,7297	68,10	66,75	66,45	1,140	1,117	1,083	1,026
91	68,25	48,2600	68,85	67,50	67,20	1,140	1,117	1,083	1,025
92	69,00	48,7904	69,60	68,25	67,95	1,140	1,117	1,082	1,025
93	69,75	49,3207	70,35	69,00	68,70	1,140	1,117	1,082	1,025
94	70,50	49,8510	71,10	69,75	69,45	1,140	1,117	1,082	1,025
95	71,25	50,3814	71,85	70,50	70,20	1,140	1,117	1,082	1,024
96	72,00	50,9117	72,60	71,25	70,95	1,140	1,116	1,082	1,024
97	72,75	51,4420	73,35	72,00	71,70	1,139	1,116	1,082	1,024
98	73,50	51,9723	74,10	72,75	72,45	1,139	1,116	1,081	1,023
99	74,25	52,5027	74,85	73,50	73,20	1,139	1,116	1,081	1,023
100	75,00	53,0330	75,60	74,25	73,94	1,139	1,116	1,081	1,023

Table 123 — Inspection dimensions internal spline, $\alpha = 45°$, $m = 0{,}75$, $E_{v\,min} = 1{,}178$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	1,40	2,175	2,199	2,183	2,223	2,194	2,258	2,213	2,313	1,372
7	1,40	2,851	2,872	2,858	2,893	2,868	2,924	2,884	2,974	1,228
8	1,50	3,445	3,467	3,453	3,489	3,463	3,522	3,480	3,575	1,288
9	1,50	4,131	4,152	4,138	4,172	4,148	4,203	4,164	4,254	1,207
10	1,50	4,984	5,004	4,991	5,024	5,000	5,055	5,016	5,105	1,186
11	1,50	5,672	5,691	5,678	5,711	5,688	5,740	5,703	5,789	1,147
12	1,50	6,504	6,523	6,511	6,543	6,520	6,572	6,535	6,621	1,138
13	1,50	7,197	7,216	7,204	7,235	7,213	7,264	7,228	7,313	1,114
14	1,60	7,754	7,774	7,761	7,794	7,771	7,824	7,786	7,874	1,138
15	1,60	8,456	8,475	8,463	8,495	8,472	8,524	8,488	8,574	1,119
16	1,60	9,267	9,286	9,274	9,306	9,283	9,335	9,299	9,385	1,113
17	1,60	9,972	9,991	9,979	10,010	9,988	10,040	10,004	10,089	1,099
18	1,60	10,776	10,794	10,783	10,814	10,792	10,844	10,808	10,893	1,096
19	1,60	11,485	11,503	11,491	11,523	11,501	11,552	11,516	11,602	1,086
20	1,60	12,283	12,301	12,289	12,321	12,299	12,351	12,315	12,400	1,083
21	1,60	12,995	13,013	13,001	13,033	13,011	13,062	13,027	13,112	1,075
22	1,60	13,788	13,806	13,795	13,826	13,805	13,856	13,820	13,905	1,074
23	1,60	14,503	14,521	14,510	14,541	14,519	14,570	14,535	14,620	1,067
24	1,60	15,292	15,310	15,299	15,330	15,309	15,360	15,325	15,410	1,066
25	1,60	16,009	16,027	16,016	16,047	16,026	16,077	16,042	16,127	1,060
26	1,60	16,796	16,814	16,803	16,834	16,813	16,864	16,829	16,914	1,060
27	1,60	17,515	17,533	17,522	17,553	17,532	17,583	17,548	17,633	1,055
28	1,60	18,299	18,317	18,306	18,337	18,316	18,367	18,332	18,418	1,054
29	1,60	19,020	19,038	19,027	19,058	19,037	19,088	19,053	19,139	1,051
30	1,60	19,802	19,820	19,809	19,840	19,819	19,870	19,835	19,921	1,050
31	1,60	20,524	20,542	20,532	20,563	20,542	20,593	20,558	20,644	1,047
32	1,60	21,304	21,322	21,311	21,342	21,321	21,373	21,338	21,423	1,046
33	1,60	22,028	22,046	22,036	22,066	22,046	22,097	22,062	22,148	1,044
34	1,60	22,806	22,824	22,813	22,844	22,824	22,875	22,840	22,926	1,043
35	1,60	23,532	23,549	23,539	23,570	23,549	23,601	23,566	23,652	1,041
36	1,60	24,308	24,326	24,315	24,346	24,326	24,377	24,342	24,428	1,040
37	1,60	25,035	25,052	25,042	25,073	25,053	25,104	25,069	25,155	1,038
38	1,70	25,561	25,579	25,569	25,600	25,580	25,631	25,596	25,683	1,044
39	1,70	26,290	26,307	26,297	26,328	26,308	26,360	26,325	26,412	1,042
40	1,70	27,063	27,081	27,071	27,102	27,082	27,133	27,099	27,186	1,042
41	1,70	27,792	27,810	27,800	27,831	27,811	27,863	27,828	27,915	1,040
42	1,70	28,565	28,583	28,573	28,604	28,583	28,635	28,601	28,688	1,039
43	1,70	29,295	29,313	29,303	29,334	29,314	29,365	29,331	29,418	1,038
44	1,70	30,066	30,084	30,074	30,105	30,085	30,137	30,103	30,190	1,037
45	1,70	30,797	30,815	30,805	30,836	30,816	30,868	30,834	30,921	1,036
46	1,70	31,568	31,586	31,576	31,607	31,587	31,639	31,604	31,692	1,036
47	1,70	32,300	32,317	32,307	32,338	32,319	32,370	32,336	32,423	1,034
48	1,70	33,069	33,087	33,077	33,108	33,088	33,140	33,106	33,193	1,034
49	1,70	33,801	33,819	33,809	33,840	33,821	33,873	33,838	33,926	1,033
50	1,70	34,570	34,588	34,578	34,609	34,590	34,642	34,607	34,695	1,032
51	1,70	35,303	35,321	35,311	35,342	35,323	35,375	35,341	35,428	1,031
52	1,70	36,071	36,089	36,080	36,111	36,091	36,143	36,109	36,197	1,031
53	1,70	36,805	36,823	36,813	36,844	36,825	36,877	36,843	36,930	1,030
54	1,70	37,572	37,590	37,581	37,612	37,592	37,644	37,610	37,698	1,030
55	1,70	38,307	38,324	38,315	38,346	38,326	38,378	38,344	38,432	1,029
56	1,70	39,073	39,091	39,082	39,113	39,093	39,145	39,111	39,199	1,028
57	1,70	39,808	39,826	39,816	39,847	39,828	39,880	39,846	39,934	1,027
58	1,70	40,574	40,592	40,583	40,614	40,594	40,646	40,613	40,701	1,027
59	1,70	41,309	41,327	41,318	41,349	41,330	41,382	41,348	41,436	1,026
60	1,70	42,075	42,093	42,084	42,115	42,095	42,147	42,114	42,202	1,026
61	1,70	42,811	42,828	42,819	42,850	42,831	42,883	42,850	42,938	1,026
62	1,70	43,576	43,593	43,584	43,615	43,596	43,648	43,615	43,703	1,025
63	1,70	44,312	44,329	44,321	44,352	44,332	44,385	44,351	44,440	1,025
64	1,70	45,077	45,094	45,085	45,116	45,097	45,149	45,116	45,205	1,024
65	1,70	45,813	45,831	45,822	45,853	45,834	45,886	45,853	45,941	1,024
66	1,70	46,577	46,595	46,586	46,617	46,598	46,650	46,617	46,706	1,024
67	1,70	47,314	47,332	47,323	47,354	47,335	47,387	47,354	47,443	1,023
68	1,70	48,078	48,096	48,087	48,118	48,099	48,151	48,118	48,207	1,023
69	1,70	48,815	48,833	48,824	48,855	48,836	48,889	48,855	48,944	1,022
70	1,70	49,579	49,596	49,588	49,619	49,600	49,652	49,619	49,708	1,022
71	1,70	50,316	50,334	50,325	50,356	50,337	50,390	50,357	50,446	1,022
72	1,70	51,079	51,097	51,088	51,119	51,101	51,153	51,120	51,209	1,022
73	1,70	51,817	51,835	51,826	51,857	51,839	51,891	51,858	51,947	1,021
74	1,70	52,580	52,597	52,589	52,620	52,601	52,654	52,621	52,710	1,021
75	1,70	53,318	53,335	53,327	53,358	53,340	53,392	53,359	53,448	1,020
76	1,70	54,081	54,098	54,090	54,120	54,102	54,154	54,122	54,211	1,020
77	1,70	54,819	54,836	54,828	54,859	54,841	54,893	54,860	54,950	1,020
78	1,70	55,581	55,598	55,590	55,621	55,603	55,655	55,623	55,712	1,020
79	1,70	56,320	56,337	56,329	56,360	56,342	56,394	56,362	56,451	1,019
80	1,70	57,082	57,099	57,091	57,122	57,104	57,156	57,123	57,213	1,019
81	1,70	57,821	57,838	57,830	57,861	57,843	57,895	57,863	57,952	1,019
82	1,70	58,582	58,599	58,591	58,622	58,604	58,657	58,624	58,714	1,019
83	1,70	59,321	59,339	59,331	59,362	59,344	59,396	59,364	59,453	1,018
84	1,70	60,083	60,100	60,092	60,123	60,105	60,157	60,125	60,215	1,018
85	1,70	60,822	60,839	60,831	60,862	60,844	60,897	60,865	60,954	1,018
86	1,70	61,583	61,600	61,592	61,623	61,605	61,658	61,626	61,716	1,018
87	1,70	62,323	62,340	62,332	62,363	62,345	62,398	62,366	62,456	1,017
88	1,70	63,084	63,101	63,093	63,124	63,106	63,159	63,126	63,216	1,017
89	1,70	63,824	63,841	63,833	63,864	63,846	63,899	63,867	63,957	1,017
90	1,70	64,584	64,601	64,593	64,624	64,607	64,659	64,627	64,717	1,017
91	1,70	65,324	65,341	65,334	65,365	65,347	65,400	65,368	65,458	1,016
92	1,70	66,084	66,101	66,094	66,125	66,107	66,160	66,128	66,218	1,016
93	1,70	66,825	66,842	66,834	66,865	66,848	66,900	66,868	66,959	1,016
94	1,70	67,585	67,602	67,594	67,625	67,608	67,660	67,629	67,719	1,016
95	1,70	68,325	68,342	68,335	68,366	68,349	68,401	68,369	68,460	1,016
96	1,70	69,085	69,102	69,095	69,126	69,108	69,161	69,129	69,220	1,016
97	1,70	69,826	69,843	69,836	69,867	69,849	69,902	69,870	69,961	1,015
98	1,70	70,586	70,603	70,595	70,626	70,609	70,662	70,630	70,720	1,015
99	1,70	71,327	71,344	71,336	71,367	71,350	71,403	71,371	71,462	1,015
100	1,70	72,086	72,103	72,096	72,127	72,109	72,162	72,131	72,221	1,015

Table 124 — Inspection dimensions external spline, $\alpha = 45°$, $m = 0{,}75$, $S_{v\,max} = 1{,}178$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	2,36	8,738	8,751	8,725	8,746	8,705	8,740	8,673	8,730	0,819
7	2,24	9,072	9,085	9,058	9,080	9,039	9,074	9,006	9,064	0,816
8	2,12	9,749	9,763	9,735	9,758	9,714	9,752	9,679	9,741	0,854
9	2,12	10,383	10,397	10,369	10,392	10,348	10,386	10,313	10,375	0,850
10	2,00	11,003	11,017	10,988	11,012	10,966	11,005	10,929	10,994	0,879
11	2,00	11,661	11,675	11,646	11,670	11,624	11,663	11,587	11,652	0,877
12	2,00	12,517	12,532	12,502	12,527	12,479	12,519	12,441	12,508	0,892
13	2,00	13,191	13,205	13,175	13,200	13,152	13,193	13,114	13,181	0,891
14	1,90	13,800	13,815	13,785	13,810	13,761	13,803	13,721	13,790	0,909
15	1,90	14,485	14,500	14,469	14,495	14,445	14,487	14,405	14,475	0,908
16	1,90	15,308	15,323	15,292	15,318	15,267	15,310	15,227	15,297	0,917
17	1,90	16,001	16,016	15,984	16,010	15,960	16,002	15,919	15,990	0,917
18	1,90	16,814	16,829	16,797	16,824	16,773	16,816	16,731	16,803	0,924
19	1,90	17,513	17,528	17,496	17,523	17,471	17,515	17,430	17,502	0,924
20	1,90	18,319	18,334	18,302	18,329	18,277	18,320	18,235	18,307	0,930
21	1,90	19,023	19,039	19,006	19,033	18,981	19,025	18,938	19,011	0,930
22	1,80	19,591	19,607	19,574	19,601	19,548	19,592	19,505	19,579	0,940
23	1,80	20,299	20,315	20,282	20,309	20,256	20,301	20,212	20,287	0,940
24	1,80	21,094	21,110	21,076	21,104	21,050	21,095	21,006	21,081	0,944
25	1,80	21,806	21,822	21,788	21,815	21,762	21,807	21,718	21,793	0,944
26	1,80	22,596	22,612	22,579	22,606	22,552	22,597	22,507	22,583	0,948
27	1,80	23,311	23,327	23,293	23,321	23,266	23,312	23,222	23,298	0,948
28	1,80	24,099	24,115	24,081	24,108	24,054	24,099	24,008	24,085	0,951
29	1,80	24,816	24,832	24,798	24,826	24,771	24,817	24,725	24,802	0,951
30	1,80	25,601	25,617	25,582	25,610	25,555	25,601	25,509	25,587	0,954
31	1,80	26,320	26,336	26,302	26,330	26,274	26,320	26,228	26,306	0,954
32	1,80	27,102	27,118	27,084	27,112	27,056	27,103	27,010	27,088	0,956
33	1,80	27,823	27,840	27,805	27,833	27,777	27,824	27,731	27,809	0,956
34	1,80	28,604	28,620	28,585	28,613	28,557	28,604	28,510	28,589	0,958
35	1,80	29,327	29,343	29,308	29,336	29,280	29,327	29,233	29,312	0,959
36	1,80	30,105	30,121	30,086	30,115	30,058	30,105	30,011	30,090	0,960
37	1,80	30,829	30,846	30,810	30,839	30,782	30,829	30,735	30,814	0,961
38	1,80	31,606	31,623	31,587	31,616	31,559	31,606	31,511	31,590	0,962
39	1,80	32,332	32,348	32,313	32,341	32,284	32,332	32,236	32,316	0,962
40	1,80	33,107	33,124	33,088	33,117	33,059	33,107	33,011	33,091	0,964
41	1,80	33,834	33,851	33,815	33,844	33,786	33,834	33,738	33,818	0,964
42	1,80	34,608	34,625	34,589	34,617	34,560	34,607	34,511	34,592	0,966
43	1,80	35,336	35,353	35,317	35,345	35,287	35,335	35,239	35,319	0,966
44	1,80	36,109	36,125	36,089	36,118	36,060	36,108	36,011	36,092	0,967
45	1,80	36,838	36,854	36,818	36,847	36,789	36,837	36,740	36,821	0,967
46	1,80	37,610	37,626	37,590	37,619	37,560	37,609	37,511	37,592	0,968
47	1,80	38,340	38,356	38,320	38,349	38,290	38,338	38,241	38,322	0,968
48	1,80	39,110	39,127	39,091	39,120	39,061	39,109	39,011	39,093	0,969
49	1,80	39,841	39,858	39,821	39,850	39,791	39,840	39,741	39,823	0,970
50	1,80	40,611	40,628	40,591	40,620	40,561	40,610	40,511	40,593	0,971
51	1,80	41,343	41,359	41,323	41,352	41,292	41,341	41,242	41,324	0,971
52	1,80	42,112	42,128	42,091	42,121	42,061	42,110	42,011	42,093	0,972
53	1,80	42,844	42,860	42,824	42,853	42,793	42,842	42,743	42,825	0,972
54	1,80	43,612	43,629	43,592	43,621	43,561	43,610	43,510	43,593	0,973
55	1,80	44,345	44,362	44,325	44,354	44,294	44,343	44,243	44,326	0,973
56	1,80	45,113	45,129	45,092	45,121	45,061	45,111	45,010	45,093	0,973
57	1,80	45,846	45,863	45,826	45,855	45,795	45,844	45,743	45,827	0,974
58	1,80	46,613	46,630	46,593	46,622	46,562	46,611	46,510	46,593	0,974
59	1,80	47,347	47,364	47,327	47,356	47,295	47,345	47,244	47,327	0,974
60	1,80	48,114	48,130	48,093	48,122	48,062	48,111	48,010	48,093	0,975
61	1,80	48,848	48,865	48,827	48,857	48,796	48,845	48,744	48,828	0,975
62	1,80	49,614	49,630	49,593	49,622	49,562	49,611	49,509	49,593	0,976
63	1,80	50,349	50,365	50,328	50,357	50,297	50,346	50,244	50,328	0,976
64	1,80	51,114	51,131	51,093	51,123	51,062	51,111	51,009	51,093	0,977
65	1,80	51,850	51,866	51,829	51,858	51,797	51,847	51,744	51,829	0,977
66	1,80	52,615	52,631	52,593	52,623	52,562	52,611	52,509	52,593	0,977
67	1,80	53,351	53,367	53,329	53,359	53,298	53,347	53,245	53,329	0,977
68	1,80	54,115	54,131	54,094	54,123	54,062	54,112	54,009	54,093	0,978
69	1,80	54,851	54,868	54,830	54,859	54,798	54,848	54,745	54,830	0,978
70	1,80	55,615	55,632	55,594	55,623	55,562	55,612	55,508	55,593	0,978
71	1,80	56,352	56,368	56,330	56,360	56,298	56,348	56,245	56,330	0,979
72	1,80	57,115	57,132	57,094	57,123	57,062	57,112	57,008	57,093	0,979
73	1,80	57,853	57,869	57,831	57,861	57,799	57,849	57,745	57,830	0,979
74	1,80	58,616	58,632	58,594	58,624	58,562	58,612	58,508	58,593	0,980
75	1,80	59,353	59,370	59,331	59,361	59,299	59,349	59,245	59,330	0,980
76	1,80	60,116	60,132	60,094	60,124	60,062	60,112	60,007	60,093	0,980
77	1,80	60,854	60,870	60,832	60,862	60,799	60,849	60,745	60,831	0,980
78	1,80	61,616	61,633	61,594	61,624	61,561	61,612	61,507	61,593	0,981
79	1,80	62,354	62,371	62,332	62,362	62,299	62,350	62,245	62,331	0,981
80	1,70	62,878	62,894	62,856	62,885	62,823	62,873	62,768	62,854	0,983
81	1,70	63,616	63,632	63,594	63,624	63,561	63,611	63,506	63,592	0,983
82	1,70	64,378	64,394	64,356	64,385	64,322	64,373	64,267	64,354	0,984
83	1,70	65,116	65,133	65,094	65,124	65,061	65,112	65,006	65,092	0,984
84	1,70	65,878	65,894	65,856	65,885	65,822	65,873	65,767	65,853	0,984
85	1,70	66,617	66,633	66,594	66,624	66,561	66,612	66,506	66,592	0,984
86	1,70	67,378	67,394	67,356	67,385	67,322	67,373	67,266	67,353	0,984
87	1,70	68,117	68,134	68,095	68,125	68,061	68,112	68,005	68,092	0,984
88	1,70	68,878	68,894	68,856	68,885	68,822	68,873	68,766	68,853	0,985
89	1,70	69,617	69,634	69,595	69,625	69,561	69,612	69,505	69,592	0,985
90	1,70	70,378	70,394	70,356	70,385	70,322	70,373	70,266	70,353	0,985
91	1,70	71,118	71,134	71,095	71,125	71,061	71,112	71,005	71,092	0,985
92	1,70	71,878	71,895	71,855	71,885	71,822	71,872	71,765	71,852	0,985
93	1,70	72,618	72,634	72,595	72,625	72,561	72,612	72,505	72,592	0,985
94	1,70	73,378	73,395	73,355	73,385	73,321	73,372	73,265	73,352	0,986
95	1,70	74,118	74,135	74,096	74,125	74,061	74,112	74,005	74,092	0,986
96	1,70	74,878	74,895	74,855	74,885	74,821	74,872	74,764	74,852	0,986
97	1,70	75,618	75,635	75,596	75,626	75,561	75,612	75,504	75,592	0,986
98	1,70	76,378	76,395	76,355	76,385	76,321	76,372	76,264	76,352	0,986
99	1,70	77,119	77,135	77,096	77,126	77,061	77,113	77,004	77,092	0,986
100	1,70	77,878	77,895	77,855	77,885	77,821	77,872	77,764	77,851	0,986

5.32 45° pressure angle, module 1

Table 125 — Geometry internal spline, $\alpha = 45°$, $m = 1$, fillet root, $E_{v\,min} = 1{,}571$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	6,00	4,2426	7,32	7,00	5,30	1,600	1,618	1,644	1,688
7	7,00	4,9497	8,32	8,00	6,28	1,601	1,618	1,645	1,690
8	8,00	5,6569	9,32	9,00	7,27	1,601	1,619	1,646	1,691
9	9,00	6,3640	10,32	10,00	8,26	1,601	1,620	1,647	1,693
10	10,00	7,0711	11,32	11,00	9,26	1,602	1,620	1,648	1,694
11	11,00	7,7782	12,32	12,00	10,25	1,602	1,621	1,649	1,695
12	12,00	8,4853	13,33	13,00	11,25	1,602	1,621	1,650	1,697
13	13,00	9,1924	14,33	14,00	12,24	1,603	1,622	1,650	1,698
14	14,00	9,8995	15,33	15,00	13,24	1,603	1,622	1,651	1,699
15	15,00	10,6066	16,33	16,00	14,24	1,603	1,623	1,652	1,700
16	16,00	11,3137	17,33	17,00	15,23	1,603	1,623	1,652	1,701
17	17,00	12,0208	18,33	18,00	16,23	1,604	1,623	1,653	1,702
18	18,00	12,7279	19,33	19,00	17,23	1,604	1,624	1,653	1,703
19	19,00	13,4350	20,33	20,00	18,23	1,604	1,624	1,654	1,704
20	20,00	14,1421	21,33	21,00	19,23	1,604	1,624	1,655	1,705
21	21,00	14,8492	22,33	22,00	20,22	1,605	1,625	1,655	1,705
22	22,00	15,5563	23,34	23,00	21,22	1,605	1,625	1,656	1,706
23	23,00	16,2635	24,34	24,00	22,22	1,605	1,625	1,656	1,707
24	24,00	16,9706	25,34	25,00	23,22	1,605	1,626	1,657	1,708
25	25,00	17,6777	26,34	26,00	24,22	1,605	1,626	1,657	1,709
26	26,00	18,3848	27,34	27,00	25,22	1,606	1,626	1,657	1,709
27	27,00	19,0919	28,34	28,00	26,22	1,606	1,627	1,658	1,710
28	28,00	19,7990	29,34	29,00	27,22	1,606	1,627	1,658	1,711
29	29,00	20,5061	30,34	30,00	28,22	1,606	1,627	1,659	1,711
30	30,00	21,2132	31,34	31,00	29,22	1,606	1,627	1,659	1,712
31	31,00	21,9203	32,34	32,00	30,22	1,606	1,628	1,660	1,713
32	32,00	22,6274	33,34	33,00	31,22	1,607	1,628	1,660	1,713
33	33,00	23,3345	34,34	34,00	32,22	1,607	1,628	1,660	1,714
34	34,00	24,0416	35,34	35,00	33,22	1,607	1,628	1,661	1,715
35	35,00	24,7487	36,34	36,00	34,21	1,607	1,629	1,661	1,715
36	36,00	25,4558	37,34	37,00	35,21	1,607	1,629	1,662	1,716
37	37,00	26,1630	38,35	38,00	36,21	1,607	1,629	1,662	1,716
38	38,00	26,8701	39,35	39,00	37,21	1,607	1,629	1,662	1,717
39	39,00	27,5772	40,35	40,00	38,21	1,608	1,630	1,663	1,718
40	40,00	28,2843	41,35	41,00	39,21	1,608	1,630	1,663	1,718
41	41,00	28,9914	42,35	42,00	40,21	1,608	1,630	1,663	1,719
42	42,00	29,6985	43,35	43,00	41,21	1,608	1,630	1,664	1,719
43	43,00	30,4056	44,35	44,00	42,21	1,608	1,630	1,664	1,720
44	44,00	31,1127	45,35	45,00	43,21	1,608	1,631	1,664	1,720
45	45,00	31,8198	46,35	46,00	44,21	1,608	1,631	1,665	1,721
46	46,00	32,5269	47,35	47,00	45,21	1,609	1,631	1,665	1,721
47	47,00	33,2340	48,35	48,00	46,21	1,609	1,631	1,665	1,722
48	48,00	33,9411	49,35	49,00	47,21	1,609	1,632	1,666	1,722
49	49,00	34,6482	50,35	50,00	48,21	1,609	1,632	1,666	1,723
50	50,00	35,3553	51,35	51,00	49,21	1,609	1,632	1,666	1,723
51	51,00	36,0624	52,35	52,00	50,21	1,609	1,632	1,666	1,724
52	52,00	36,7696	53,35	53,00	51,21	1,609	1,632	1,667	1,724
53	53,00	37,4767	54,35	54,00	52,21	1,609	1,632	1,667	1,725
54	54,00	38,1838	55,35	55,00	53,21	1,610	1,633	1,667	1,725
55	55,00	38,8909	56,35	56,00	54,21	1,610	1,633	1,668	1,726
56	56,00	39,5980	57,36	57,00	55,21	1,610	1,633	1,668	1,726
57	57,00	40,3051	58,36	58,00	56,21	1,610	1,633	1,668	1,727
58	58,00	41,0122	59,36	59,00	57,21	1,610	1,633	1,668	1,727
59	59,00	41,7193	60,36	60,00	58,21	1,610	1,634	1,669	1,727
60	60,00	42,4264	61,36	61,00	59,21	1,610	1,634	1,669	1,728
61	61,00	43,1335	62,36	62,00	60,21	1,610	1,634	1,669	1,728
62	62,00	43,8406	63,36	63,00	61,21	1,610	1,634	1,670	1,729
63	63,00	44,5477	64,36	64,00	62,21	1,611	1,634	1,670	1,729
64	64,00	45,2548	65,36	65,00	63,21	1,611	1,634	1,670	1,730
65	65,00	45,9619	66,36	66,00	64,21	1,611	1,635	1,670	1,730
66	66,00	46,6690	67,36	67,00	65,21	1,611	1,635	1,671	1,730
67	67,00	47,3762	68,36	68,00	66,21	1,611	1,635	1,671	1,731
68	68,00	48,0833	69,36	69,00	67,21	1,611	1,635	1,671	1,731
69	69,00	48,7904	70,36	70,00	68,21	1,611	1,635	1,671	1,732
70	70,00	49,4975	71,36	71,00	69,21	1,611	1,635	1,672	1,732
71	71,00	50,2046	72,36	72,00	70,21	1,611	1,636	1,672	1,732
72	72,00	50,9117	73,36	73,00	71,21	1,611	1,636	1,672	1,733
73	73,00	51,6188	74,36	74,00	72,21	1,612	1,636	1,672	1,733
74	74,00	52,3259	75,36	75,00	73,21	1,612	1,636	1,673	1,733
75	75,00	53,0330	76,36	76,00	74,21	1,612	1,636	1,673	1,734
76	76,00	53,7401	77,36	77,00	75,21	1,612	1,636	1,673	1,734
77	77,00	54,4472	78,36	78,00	76,21	1,612	1,636	1,673	1,735
78	78,00	55,1543	79,36	79,00	77,21	1,612	1,637	1,673	1,735
79	79,00	55,8614	80,36	80,00	78,21	1,612	1,637	1,674	1,735
80	80,00	56,5685	81,36	81,00	79,21	1,612	1,637	1,674	1,736
81	81,00	57,2756	82,37	82,00	80,21	1,612	1,637	1,674	1,736
82	82,00	57,9828	83,37	83,00	81,21	1,612	1,637	1,674	1,736
83	83,00	58,6899	84,37	84,00	82,21	1,612	1,637	1,675	1,737
84	84,00	59,3970	85,37	85,00	83,21	1,613	1,637	1,675	1,737
85	85,00	60,1041	86,37	86,00	84,21	1,613	1,638	1,675	1,737
86	86,00	60,8112	87,37	87,00	85,21	1,613	1,638	1,675	1,738
87	87,00	61,5183	88,37	88,00	86,21	1,613	1,638	1,675	1,738
88	88,00	62,2254	89,37	89,00	87,21	1,613	1,638	1,676	1,739
89	89,00	62,9325	90,37	90,00	88,21	1,613	1,638	1,676	1,739
90	90,00	63,6396	91,37	91,00	89,21	1,613	1,638	1,676	1,739
91	91,00	64,3467	92,37	92,00	90,21	1,613	1,638	1,676	1,740
92	92,00	65,0538	93,37	93,00	91,21	1,613	1,639	1,677	1,740
93	93,00	65,7609	94,37	94,00	92,21	1,613	1,639	1,677	1,740
94	94,00	66,4680	95,37	95,00	93,21	1,613	1,639	1,677	1,741
95	95,00	67,1751	96,37	96,00	94,21	1,613	1,639	1,677	1,741
96	96,00	67,8823	97,37	97,00	95,21	1,614	1,639	1,677	1,741
97	97,00	68,5894	98,37	98,00	96,21	1,614	1,639	1,678	1,742
98	98,00	69,2965	99,37	99,00	97,21	1,614	1,639	1,678	1,742
99	99,00	70,0036	100,37	100,00	98,21	1,614	1,639	1,678	1,742
100	100,00	70,7107	101,37	101,00	99,21	1,614	1,640	1,678	1,742

Table 126 — Geometry external spline, $\alpha = 45°$, $m = 1$, fillet root, $S_{v\,max} = 1{,}571$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	6,00	4,2426	6,80	5,10	4,68	1,542	1,524	1,498	1,454
7	7,00	4,9497	7,80	6,08	5,68	1,541	1,524	1,497	1,452
8	8,00	5,6569	8,80	7,07	6,68	1,541	1,523	1,496	1,451
9	9,00	6,3640	9,80	8,06	7,68	1,541	1,522	1,495	1,449
10	10,00	7,0711	10,80	9,06	8,68	1,540	1,522	1,494	1,448
11	11,00	7,7782	11,80	10,05	9,68	1,540	1,521	1,493	1,447
12	12,00	8,4853	12,80	11,05	10,67	1,540	1,521	1,492	1,445
13	13,00	9,1924	13,80	12,04	11,67	1,539	1,520	1,492	1,444
14	14,00	9,8995	14,80	13,04	12,67	1,539	1,520	1,491	1,443
15	15,00	10,6066	15,80	14,04	13,67	1,539	1,519	1,490	1,442
16	16,00	11,3137	16,80	15,03	14,67	1,539	1,519	1,490	1,441
17	17,00	12,0208	17,80	16,03	15,67	1,538	1,519	1,489	1,440
18	18,00	12,7279	18,80	17,03	16,67	1,538	1,518	1,489	1,439
19	19,00	13,4350	19,80	18,03	17,67	1,538	1,518	1,488	1,438
20	20,00	14,1421	20,80	19,03	18,67	1,538	1,518	1,487	1,437
21	21,00	14,8492	21,80	20,02	19,67	1,537	1,517	1,487	1,437
22	22,00	15,5563	22,80	21,02	20,66	1,537	1,517	1,486	1,436
23	23,00	16,2635	23,80	22,02	21,66	1,537	1,517	1,486	1,435
24	24,00	16,9706	24,80	23,02	22,66	1,537	1,516	1,485	1,434
25	25,00	17,6777	25,80	24,02	23,66	1,537	1,516	1,485	1,433
26	26,00	18,3848	26,80	25,02	24,66	1,536	1,516	1,485	1,433
27	27,00	19,0919	27,80	26,02	25,66	1,536	1,515	1,484	1,432
28	28,00	19,7990	28,80	27,02	26,66	1,536	1,515	1,484	1,431
29	29,00	20,5061	29,80	28,02	27,66	1,536	1,515	1,483	1,431
30	30,00	21,2132	30,80	29,02	28,66	1,536	1,515	1,483	1,430
31	31,00	21,9203	31,80	30,02	29,66	1,536	1,514	1,482	1,429
32	32,00	22,6274	32,80	31,02	30,66	1,535	1,514	1,482	1,429
33	33,00	23,3345	33,80	32,02	31,66	1,535	1,514	1,482	1,428
34	34,00	24,0416	34,80	33,02	32,66	1,535	1,514	1,481	1,427
35	35,00	24,7487	35,80	34,01	33,66	1,535	1,513	1,481	1,427
36	36,00	25,4558	36,80	35,01	34,66	1,535	1,513	1,480	1,426
37	37,00	26,1630	37,80	36,01	35,65	1,535	1,513	1,480	1,426
38	38,00	26,8701	38,80	37,01	36,65	1,535	1,513	1,480	1,425
39	39,00	27,5772	39,80	38,01	37,65	1,534	1,512	1,479	1,424
40	40,00	28,2843	40,80	39,01	38,65	1,534	1,512	1,479	1,424
41	41,00	28,9914	41,80	40,01	39,65	1,534	1,512	1,479	1,423
42	42,00	29,6985	42,80	41,01	40,65	1,534	1,512	1,478	1,423
43	43,00	30,4056	43,80	42,01	41,65	1,534	1,512	1,478	1,422
44	44,00	31,1127	44,80	43,01	42,65	1,534	1,511	1,478	1,422
45	45,00	31,8198	45,80	44,01	43,65	1,534	1,511	1,477	1,421
46	46,00	32,5269	46,80	45,01	44,65	1,533	1,511	1,477	1,421
47	47,00	33,2340	47,80	46,01	45,65	1,533	1,511	1,477	1,420
48	48,00	33,9411	48,80	47,01	46,65	1,533	1,510	1,476	1,420
49	49,00	34,6482	49,80	48,01	47,65	1,533	1,510	1,476	1,419
50	50,00	35,3553	50,80	49,01	48,65	1,533	1,510	1,476	1,419
51	51,00	36,0624	51,80	50,01	49,65	1,533	1,510	1,476	1,418
52	52,00	36,7696	52,80	51,01	50,65	1,533	1,510	1,475	1,418
53	53,00	37,4767	53,80	52,01	51,65	1,533	1,510	1,475	1,417
54	54,00	38,1838	54,80	53,01	52,65	1,532	1,509	1,475	1,417
55	55,00	38,8909	55,80	54,01	53,65	1,532	1,509	1,474	1,416
56	56,00	39,5980	56,80	55,01	54,64	1,532	1,509	1,474	1,416
57	57,00	40,3051	57,80	56,01	55,64	1,532	1,509	1,474	1,415
58	58,00	41,0122	58,80	57,01	56,64	1,532	1,509	1,474	1,415
59	59,00	41,7193	59,80	58,01	57,64	1,532	1,508	1,473	1,415
60	60,00	42,4264	60,80	59,01	58,64	1,532	1,508	1,473	1,414
61	61,00	43,1335	61,80	60,01	59,64	1,532	1,508	1,473	1,414
62	62,00	43,8406	62,80	61,01	60,64	1,532	1,508	1,472	1,413
63	63,00	44,5477	63,80	62,01	61,64	1,531	1,508	1,472	1,413
64	64,00	45,2548	64,80	63,01	62,64	1,531	1,508	1,472	1,412
65	65,00	45,9619	65,80	64,01	63,64	1,531	1,507	1,472	1,412
66	66,00	46,6690	66,80	65,01	64,64	1,531	1,507	1,471	1,412
67	67,00	47,3762	67,80	66,01	65,64	1,531	1,507	1,471	1,411
68	68,00	48,0833	68,80	67,01	66,64	1,531	1,507	1,471	1,411
69	69,00	48,7904	69,80	68,01	67,64	1,531	1,507	1,471	1,410
70	70,00	49,4975	70,80	69,01	68,64	1,531	1,507	1,470	1,410
71	71,00	50,2046	71,80	70,01	69,64	1,531	1,506	1,470	1,410
72	72,00	50,9117	72,80	71,01	70,64	1,531	1,506	1,470	1,409
73	73,00	51,6188	73,80	72,01	71,64	1,530	1,506	1,470	1,409
74	74,00	52,3259	74,80	73,01	72,64	1,530	1,506	1,469	1,409
75	75,00	53,0330	75,80	74,01	73,64	1,530	1,506	1,469	1,408
76	76,00	53,7401	76,80	75,01	74,64	1,530	1,506	1,469	1,408
77	77,00	54,4472	77,80	76,01	75,64	1,530	1,506	1,469	1,407
78	78,00	55,1543	78,80	77,01	76,64	1,530	1,505	1,469	1,407
79	79,00	55,8614	79,80	78,01	77,64	1,530	1,505	1,468	1,407
80	80,00	56,5685	80,80	79,01	78,64	1,530	1,505	1,468	1,406
81	81,00	57,2756	81,80	80,01	79,63	1,530	1,505	1,468	1,406
82	82,00	57,9828	82,80	81,01	80,63	1,530	1,505	1,468	1,406
83	83,00	58,6899	83,80	82,01	81,63	1,530	1,505	1,467	1,405
84	84,00	59,3970	84,80	83,01	82,63	1,529	1,505	1,467	1,405
85	85,00	60,1041	85,80	84,01	83,63	1,529	1,504	1,467	1,405
86	86,00	60,8112	86,80	85,01	84,63	1,529	1,504	1,467	1,404
87	87,00	61,5183	87,80	86,01	85,63	1,529	1,504	1,467	1,404
88	88,00	62,2254	88,80	87,01	86,63	1,529	1,504	1,466	1,403
89	89,00	62,9325	89,80	88,01	87,63	1,529	1,504	1,466	1,403
90	90,00	63,6396	90,80	89,01	88,63	1,529	1,504	1,466	1,403
91	91,00	64,3467	91,80	90,01	89,63	1,529	1,504	1,466	1,402
92	92,00	65,0538	92,80	91,01	90,63	1,529	1,503	1,465	1,402
93	93,00	65,7609	93,80	92,01	91,63	1,529	1,503	1,465	1,402
94	94,00	66,4680	94,80	93,01	92,63	1,529	1,503	1,465	1,401
95	95,00	67,1751	95,80	94,01	93,63	1,529	1,503	1,465	1,401
96	96,00	67,8823	96,80	95,01	94,63	1,528	1,503	1,465	1,401
97	97,00	68,5894	97,80	96,01	95,63	1,528	1,503	1,464	1,400
98	98,00	69,2965	98,80	97,01	96,63	1,528	1,503	1,464	1,400
99	99,00	70,0036	99,80	98,01	97,63	1,528	1,503	1,464	1,400
100	100,00	70,7107	100,80	99,01	98,63	1,528	1,502	1,464	1,400

Table 127 — Inspection dimensions internal spline, $\alpha = 45°$, $m = 1$, $E_{v\,min} = 1{,}571$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	1,80	3,101	3,126	3,109	3,151	3,120	3,186	3,138	3,244	1,307
7	1,90	3,702	3,726	3,709	3,749	3,720	3,785	3,738	3,842	1,272
8	1,90	4,877	4,900	4,885	4,923	4,895	4,957	4,912	5,013	1,230
9	2,00	5,505	5,528	5,512	5,550	5,522	5,585	5,539	5,641	1,217
10	2,00	6,641	6,664	6,649	6,686	6,659	6,720	6,676	6,775	1,194
11	2,00	7,558	7,580	7,565	7,602	7,575	7,635	7,592	7,689	1,153
12	2,00	8,668	8,690	8,675	8,712	8,685	8,744	8,702	8,798	1,143
13	2,00	9,592	9,613	9,599	9,635	9,609	9,667	9,625	9,720	1,119
14	2,12	10,371	10,392	10,378	10,414	10,388	10,447	10,405	10,502	1,140
15	2,12	11,306	11,327	11,313	11,348	11,323	11,381	11,339	11,436	1,120
16	2,12	12,387	12,408	12,394	12,430	12,404	12,463	12,421	12,517	1,114
17	2,12	13,327	13,348	13,334	13,369	13,344	13,402	13,361	13,456	1,100
18	2,12	14,398	14,419	14,406	14,441	14,416	14,474	14,432	14,528	1,097
19	2,12	15,343	15,364	15,350	15,385	15,361	15,418	15,377	15,472	1,086
20	2,12	16,407	16,428	16,414	16,449	16,425	16,482	16,441	16,537	1,084
21	2,12	17,356	17,376	17,363	17,398	17,374	17,431	17,391	17,485	1,076
22	2,12	18,414	18,434	18,421	18,456	18,432	18,489	18,449	18,544	1,074
23	2,12	19,367	19,387	19,374	19,409	19,385	19,442	19,402	19,496	1,068
24	2,12	20,420	20,440	20,427	20,462	20,438	20,495	20,455	20,550	1,066
25	2,12	21,376	21,396	21,383	21,418	21,394	21,451	21,411	21,506	1,061
26	2,12	22,424	22,444	22,432	22,467	22,443	22,500	22,460	22,555	1,060
27	2,12	23,383	23,403	23,391	23,425	23,402	23,458	23,419	23,514	1,056
28	2,12	24,428	24,448	24,436	24,470	24,447	24,504	24,464	24,559	1,055
29	2,12	25,390	25,410	25,397	25,432	25,408	25,465	25,426	25,521	1,051
30	2,12	26,432	26,452	26,439	26,474	26,450	26,507	26,468	26,563	1,051
31	2,12	27,395	27,415	27,403	27,437	27,414	27,471	27,432	27,527	1,047
32	2,12	28,435	28,454	28,443	28,477	28,454	28,511	28,471	28,567	1,047
33	2,24	29,102	29,121	29,110	29,144	29,121	29,178	29,139	29,234	1,051
34	2,24	30,139	30,159	30,147	30,181	30,158	30,215	30,176	30,272	1,050
35	2,24	31,107	31,126	31,115	31,149	31,126	31,183	31,144	31,240	1,048
36	2,24	32,142	32,161	32,150	32,184	32,161	32,218	32,179	32,275	1,047
37	2,24	33,111	33,131	33,119	33,154	33,131	33,188	33,149	33,245	1,045
38	2,24	34,144	34,164	34,152	34,187	34,164	34,221	34,182	34,278	1,044
39	2,24	35,115	35,135	35,123	35,158	35,135	35,192	35,153	35,249	1,042
40	2,24	36,146	36,166	36,155	36,189	36,167	36,224	36,185	36,281	1,042
41	2,24	37,119	37,138	37,127	37,161	37,139	37,196	37,157	37,254	1,040
42	2,24	38,149	38,168	38,157	38,191	38,169	38,226	38,187	38,284	1,039
43	2,24	39,122	39,142	39,130	39,165	39,142	39,200	39,161	39,257	1,038
44	2,24	40,150	40,170	40,159	40,193	40,171	40,228	40,190	40,286	1,037
45	2,24	41,125	41,145	41,133	41,168	41,146	41,203	41,164	41,261	1,036
46	2,24	42,152	42,172	42,161	42,195	42,173	42,230	42,192	42,289	1,035
47	2,24	43,128	43,147	43,136	43,171	43,149	43,206	43,168	43,264	1,034
48	2,24	44,154	44,173	44,163	44,197	44,175	44,232	44,194	44,291	1,034
49	2,24	45,130	45,150	45,139	45,173	45,151	45,209	45,171	45,267	1,032
50	2,24	46,155	46,175	46,164	46,198	46,176	46,234	46,196	46,293	1,032
51	2,24	47,133	47,152	47,141	47,176	47,154	47,211	47,173	47,270	1,031
52	2,24	48,157	48,176	48,166	48,200	48,178	48,235	48,198	48,295	1,031
53	2,24	49,135	49,154	49,144	49,178	49,156	49,214	49,176	49,273	1,030
54	2,24	50,158	50,177	50,167	50,201	50,180	50,237	50,199	50,297	1,030
55	2,24	51,137	51,156	51,146	51,180	51,158	51,216	51,178	51,276	1,028
56	2,24	52,159	52,179	52,168	52,202	52,181	52,238	52,201	52,298	1,028
57	2,24	53,139	53,158	53,148	53,182	53,161	53,218	53,181	53,278	1,027
58	2,24	54,160	54,180	54,169	54,204	54,182	54,240	54,202	54,300	1,027
59	2,24	55,141	55,160	55,150	55,184	55,163	55,220	55,183	55,280	1,026
60	2,24	56,161	56,181	56,171	56,205	56,184	56,241	56,204	56,301	1,026
61	2,24	57,142	57,161	57,151	57,186	57,165	57,222	57,185	57,282	1,025
62	2,24	58,162	58,182	58,172	58,206	58,185	58,242	58,205	58,303	1,025
63	2,24	59,144	59,163	59,153	59,187	59,166	59,224	59,187	59,285	1,025
64	2,24	60,163	60,182	60,173	60,207	60,186	60,243	60,207	60,304	1,024
65	2,24	61,145	61,164	61,155	61,189	61,168	61,225	61,189	61,287	1,024
66	2,24	62,164	62,183	62,174	62,208	62,187	62,245	62,208	62,306	1,024
67	2,24	63,147	63,166	63,156	63,190	63,170	63,227	63,190	63,288	1,023
68	2,24	64,165	64,184	64,175	64,209	64,188	64,246	64,209	64,307	1,023
69	2,24	65,148	65,167	65,158	65,192	65,171	65,229	65,192	65,290	1,022
70	2,24	66,166	66,185	66,176	66,210	66,189	66,247	66,210	66,308	1,022
71	2,24	67,149	67,168	67,159	67,193	67,173	67,230	67,194	67,292	1,022
72	2,24	68,167	68,186	68,176	68,210	68,190	68,248	68,211	68,310	1,021
73	2,24	69,151	69,169	69,160	69,194	69,174	69,232	69,195	69,294	1,021
74	2,24	70,167	70,186	70,177	70,211	70,191	70,249	70,212	70,311	1,021
75	2,24	71,152	71,171	71,162	71,196	71,175	71,233	71,197	71,295	1,020
76	2,24	72,168	72,187	72,178	72,212	72,192	72,250	72,214	72,312	1,020
77	2,24	73,153	73,172	73,163	73,197	73,177	73,234	73,198	73,297	1,020
78	2,24	74,169	74,188	74,179	74,213	74,193	74,250	74,215	74,313	1,020
79	2,24	75,154	75,173	75,164	75,198	75,178	75,236	75,200	75,298	1,019
80	2,24	76,169	76,188	76,180	76,213	76,194	76,251	76,216	76,314	1,019
81	2,24	77,155	77,174	77,165	77,199	77,179	77,237	77,201	77,300	1,019
82	2,24	78,170	78,189	78,180	78,214	78,194	78,252	78,217	78,315	1,019
83	2,24	79,156	79,175	79,166	79,200	79,180	79,238	79,202	79,301	1,018
84	2,24	80,171	80,189	80,181	80,215	80,195	80,253	80,217	80,316	1,018
85	2,24	81,157	81,175	81,167	81,201	81,181	81,239	81,204	81,303	1,018
86	2,24	82,171	82,190	82,182	82,215	82,196	82,254	82,218	82,317	1,018
87	2,24	83,158	83,176	83,168	83,202	83,182	83,240	83,205	83,304	1,017
88	2,24	84,172	84,191	84,182	84,216	84,197	84,254	84,219	84,318	1,017
89	2,24	85,158	85,177	85,169	85,203	85,184	85,241	85,206	85,305	1,017
90	2,24	86,172	86,191	86,183	86,217	86,198	86,255	86,220	86,319	1,017
91	2,24	87,159	87,178	87,170	87,204	87,185	87,242	87,207	87,307	1,016
92	2,24	88,173	88,191	88,183	88,217	88,198	88,256	88,221	88,320	1,016
93	2,24	89,160	89,179	89,171	89,205	89,186	89,243	89,208	89,308	1,016
94	2,24	90,173	90,192	90,184	90,218	90,199	90,257	90,222	90,321	1,016
95	2,24	91,161	91,179	91,172	91,205	91,186	91,244	91,210	91,309	1,016
96	2,24	92,174	92,192	92,185	92,218	92,200	92,257	92,223	92,322	1,016
97	2,24	93,162	93,180	93,172	93,206	93,187	93,245	93,211	93,310	1,015
98	2,24	94,174	94,193	94,185	94,219	94,200	94,258	94,224	94,323	1,015
99	2,24	95,162	95,181	95,173	95,207	95,188	95,246	95,212	95,311	1,015
100	2,24	96,175	96,193	96,186	96,219	96,201	96,259	96,224	96,324	1,015

Table 128 — Inspection dimensions external spline, $\alpha = 45°$, $m = 1$, $S_{v\,max} = 1{,}571$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	3,15	11,662	11,677	11,648	11,672	11,627	11,666	11,591	11,655	0,818
7	3,00	12,129	12,144	12,115	12,139	12,093	12,133	12,057	12,122	0,815
8	3,00	13,385	13,400	13,370	13,396	13,347	13,389	13,309	13,377	0,846
9	2,80	13,791	13,807	13,776	13,802	13,752	13,795	13,714	13,783	0,851
10	2,80	14,974	14,990	14,958	14,985	14,934	14,977	14,894	14,966	0,872
11	2,65	15,517	15,533	15,500	15,527	15,476	15,520	15,435	15,508	0,877
12	2,65	16,658	16,674	16,641	16,669	16,616	16,661	16,574	16,648	0,892
13	2,65	17,556	17,572	17,539	17,567	17,514	17,559	17,471	17,546	0,891
14	2,65	18,672	18,689	18,655	18,683	18,629	18,675	18,586	18,662	0,902
15	2,50	19,243	19,260	19,226	19,255	19,200	19,246	19,156	19,233	0,909
16	2,50	20,340	20,357	20,322	20,351	20,296	20,343	20,251	20,330	0,918
17	2,50	21,264	21,281	21,246	21,275	21,219	21,267	21,174	21,253	0,917
18	2,50	22,348	22,365	22,330	22,359	22,303	22,351	22,257	22,337	0,925
19	2,50	23,280	23,298	23,262	23,292	23,234	23,283	23,188	23,269	0,924
20	2,50	24,355	24,372	24,336	24,366	24,308	24,357	24,262	24,343	0,930
21	2,50	25,294	25,311	25,275	25,305	25,247	25,296	25,200	25,282	0,930
22	2,50	26,360	26,378	26,341	26,371	26,313	26,362	26,265	26,348	0,935
23	2,50	27,305	27,322	27,286	27,316	27,257	27,307	27,209	27,292	0,935
24	2,50	28,365	28,382	28,346	28,376	28,317	28,367	28,269	28,352	0,940
25	2,50	29,314	29,331	29,295	29,325	29,265	29,316	29,217	29,301	0,940
26	2,50	30,369	30,387	30,349	30,380	30,320	30,370	30,271	30,355	0,943
27	2,50	31,322	31,339	31,302	31,333	31,273	31,323	31,224	31,308	0,944
28	2,36	32,045	32,063	32,025	32,056	31,995	32,046	31,945	32,031	0,952
29	2,36	33,001	33,019	32,981	33,012	32,951	33,002	32,901	32,987	0,952
30	2,36	34,047	34,065	34,027	34,058	33,997	34,048	33,946	34,033	0,954
31	2,36	35,006	35,024	34,986	35,017	34,956	35,007	34,905	34,992	0,954
32	2,36	36,049	36,067	36,029	36,060	35,998	36,050	35,947	36,034	0,957
33	2,36	37,011	37,029	36,991	37,022	36,960	37,012	36,909	36,996	0,957
34	2,36	38,051	38,069	38,031	38,062	38,000	38,052	37,948	38,036	0,959
35	2,36	39,015	39,033	38,995	39,026	38,964	39,016	38,912	38,999	0,959
36	2,36	40,053	40,071	40,032	40,064	40,001	40,053	39,949	40,037	0,961
37	2,36	41,019	41,037	40,998	41,030	40,967	41,019	40,914	41,002	0,961
38	2,36	42,055	42,073	42,034	42,065	42,002	42,055	41,949	42,038	0,963
39	2,36	43,022	43,040	43,001	43,033	42,969	43,022	42,917	43,005	0,963
40	2,36	44,056	44,074	44,035	44,066	44,003	44,056	43,950	44,039	0,964
41	2,36	45,025	45,043	45,004	45,036	44,972	45,025	44,919	45,008	0,965
42	2,36	46,057	46,075	46,036	46,068	46,004	46,057	45,950	46,039	0,966
43	2,36	47,028	47,046	47,006	47,038	46,974	47,027	46,920	47,010	0,966
44	2,36	48,058	48,076	48,037	48,069	48,004	48,057	47,950	48,040	0,967
45	2,36	49,030	49,048	49,009	49,041	48,976	49,029	48,922	49,012	0,967
46	2,36	50,059	50,077	50,037	50,069	50,005	50,058	49,950	50,041	0,969
47	2,36	51,033	51,051	51,011	51,043	50,978	51,031	50,923	51,014	0,969
48	2,36	52,060	52,078	52,038	52,070	52,005	52,059	51,950	52,041	0,970
49	2,36	53,035	53,053	53,012	53,045	52,979	53,033	52,924	53,015	0,970
50	2,36	54,061	54,079	54,039	54,071	54,006	54,059	53,950	54,041	0,971
51	2,36	55,036	55,055	55,014	55,046	54,981	55,035	54,925	55,016	0,971
52	2,36	56,062	56,080	56,039	56,072	56,006	56,060	55,950	56,042	0,972
53	2,36	57,038	57,056	57,016	57,048	56,982	57,036	56,926	57,018	0,972
54	2,36	58,062	58,081	58,040	58,072	58,006	58,060	57,950	58,042	0,973
55	2,36	59,040	59,058	59,017	59,049	58,983	59,037	58,927	59,019	0,973
56	2,36	60,063	60,081	60,040	60,073	60,007	60,061	59,950	60,042	0,974
57	2,36	61,041	61,059	61,018	61,051	60,984	61,039	60,928	61,020	0,974
58	2,36	62,064	62,082	62,041	62,073	62,007	62,061	61,950	62,042	0,975
59	2,36	63,042	63,061	63,020	63,052	62,985	63,040	62,928	63,021	0,975
60	2,36	64,064	64,082	64,041	64,074	64,007	64,061	63,950	64,042	0,975
61	2,36	65,044	65,062	65,021	65,053	64,986	65,041	64,929	65,021	0,976
62	2,36	66,065	66,083	66,042	66,074	66,007	66,062	65,949	66,042	0,976
63	2,36	67,045	67,063	67,022	67,054	66,987	67,042	66,929	67,022	0,976
64	2,36	68,065	68,083	68,042	68,074	68,007	68,062	67,949	68,042	0,977
65	2,36	69,046	69,064	69,023	69,055	68,988	69,043	68,930	69,023	0,977
66	2,36	70,066	70,084	70,042	70,075	70,007	70,062	69,949	70,042	0,978
67	2,36	71,047	71,065	71,024	71,056	70,988	71,043	70,930	71,023	0,978
68	2,36	72,066	72,084	72,043	72,075	72,007	72,062	71,949	72,042	0,978
69	2,36	73,048	73,066	73,024	73,057	72,989	73,044	72,930	73,024	0,978
70	2,36	74,066	74,085	74,043	74,075	74,007	74,062	73,948	74,042	0,979
71	2,36	75,049	75,067	75,025	75,058	74,990	75,045	74,930	75,024	0,979
72	2,36	76,067	76,085	76,043	76,076	76,007	76,062	75,948	76,042	0,979
73	2,36	77,050	77,068	77,026	77,058	76,990	77,045	76,931	77,025	0,979
74	2,36	78,067	78,085	78,043	78,076	78,007	78,063	77,948	78,042	0,980
75	2,36	79,050	79,068	79,026	79,059	78,991	79,046	78,931	79,025	0,980
76	2,36	80,067	80,085	80,043	80,076	80,007	80,063	79,947	80,042	0,980
77	2,36	81,051	81,069	81,027	81,060	80,991	81,046	80,931	81,026	0,980
78	2,36	82,068	82,086	82,043	82,076	82,007	82,063	81,947	82,042	0,981
79	2,36	83,052	83,070	83,028	83,060	82,991	83,047	82,931	83,026	0,981
80	2,36	84,068	84,086	84,044	84,076	84,007	84,063	83,947	84,042	0,981
81	2,36	85,052	85,070	85,028	85,061	84,992	85,047	84,931	85,026	0,981
82	2,36	86,068	86,086	86,044	86,076	86,007	86,063	85,946	86,041	0,982
83	2,36	87,053	87,071	87,029	87,061	86,992	87,048	86,931	87,026	0,982
84	2,36	88,068	88,086	88,044	88,077	88,007	88,063	87,946	88,041	0,982
85	2,36	89,054	89,072	89,029	89,062	88,992	89,048	88,931	89,026	0,982
86	2,36	90,069	90,087	90,044	90,077	90,007	90,063	89,946	90,041	0,983
87	2,36	91,054	91,072	91,030	91,062	90,993	91,048	90,931	91,027	0,983
88	2,36	92,069	92,087	92,044	92,077	92,007	92,063	91,945	92,041	0,983
89	2,36	93,055	93,073	93,030	93,063	92,993	93,049	92,931	93,027	0,983
90	2,36	94,069	94,087	94,044	94,077	94,007	94,063	93,945	94,041	0,983
91	2,36	95,055	95,073	95,030	95,063	94,993	95,049	94,931	95,027	0,983
92	2,36	96,069	96,087	96,044	96,077	96,007	96,063	95,945	96,041	0,984
93	2,36	97,056	97,074	97,031	97,063	96,993	97,049	96,931	97,027	0,984
94	2,36	98,069	98,087	98,044	98,077	98,007	98,062	97,944	98,040	0,984
95	2,36	99,056	99,074	99,031	99,064	98,993	99,049	98,931	99,027	0,984
96	2,36	100,069	100,087	100,044	100,077	100,007	100,062	99,944	100,040	0,984
97	2,36	101,056	101,074	101,031	101,064	100,994	101,049	100,931	101,027	0,984
98	2,36	102,069	102,087	102,044	102,077	102,006	102,062	101,943	102,040	0,985
99	2,36	103,057	103,075	103,032	103,064	102,994	103,050	102,931	103,027	0,985
100	2,36	104,070	104,087	104,044	104,077	104,006	104,062	103,943	104,040	0,985

5.33 45° pressure angle, module 1,25

Table 129 — Geometry internal spline, $\alpha = 45°$, $m = 1{,}25$, fillet root, $E_{v\,min} = 1{,}963$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	7,50	5,3033	9,13	8,75	6,62	1,994	2,013	2,042	2,089
7	8,75	6,1872	10,38	10,00	7,85	1,995	2,014	2,043	2,091
8	10,00	7,0711	11,63	11,25	9,09	1,995	2,015	2,044	2,093
9	11,25	7,9550	12,88	12,50	10,33	1,996	2,015	2,045	2,094
10	12,50	8,8388	14,13	13,75	11,57	1,996	2,016	2,046	2,096
11	13,75	9,7227	15,38	15,00	12,81	1,997	2,017	2,047	2,097
12	15,00	10,6066	16,64	16,25	14,06	1,997	2,017	2,048	2,098
13	16,25	11,4905	17,89	17,50	15,30	1,997	2,018	2,048	2,100
14	17,50	12,3744	19,14	18,75	16,55	1,997	2,018	2,049	2,101
15	18,75	13,2583	20,39	20,00	17,79	1,998	2,019	2,050	2,102
16	20,00	14,1421	21,64	21,25	19,04	1,998	2,019	2,051	2,103
17	21,25	15,0260	22,89	22,50	20,29	1,998	2,019	2,051	2,104
18	22,50	15,9099	24,14	23,75	21,54	1,999	2,020	2,052	2,105
19	23,75	16,7938	25,39	25,00	22,78	1,999	2,020	2,052	2,106
20	25,00	17,6777	26,64	26,25	24,03	1,999	2,021	2,053	2,107
21	26,25	18,5616	27,90	27,50	25,28	1,999	2,021	2,054	2,108
22	27,50	19,4454	29,15	28,75	26,53	1,999	2,021	2,054	2,109
23	28,75	20,3293	30,40	30,00	27,78	2,000	2,022	2,055	2,110
24	30,00	21,2132	31,65	31,25	29,03	2,000	2,022	2,055	2,111
25	31,25	22,0971	32,90	32,50	30,28	2,000	2,022	2,056	2,111
26	32,50	22,9810	34,15	33,75	31,52	2,000	2,023	2,056	2,112
27	33,75	23,8649	35,40	35,00	32,77	2,000	2,023	2,057	2,113
28	35,00	24,7487	36,65	36,25	34,02	2,001	2,023	2,057	2,114
29	36,25	25,6326	37,90	37,50	35,27	2,001	2,024	2,058	2,114
30	37,50	26,5165	39,15	38,75	36,52	2,001	2,024	2,058	2,115
31	38,75	27,4004	40,40	40,00	37,77	2,001	2,024	2,059	2,116
32	40,00	28,2843	41,65	41,25	39,02	2,001	2,024	2,059	2,117
33	41,25	29,1682	42,90	42,50	40,27	2,002	2,025	2,059	2,117
34	42,50	30,0520	44,15	43,75	41,52	2,002	2,025	2,060	2,118
35	43,75	30,9359	45,41	45,00	42,77	2,002	2,025	2,060	2,119
36	45,00	31,8198	46,66	46,25	44,02	2,002	2,026	2,061	2,119
37	46,25	32,7037	47,91	47,50	45,27	2,002	2,026	2,061	2,120
38	47,50	33,5876	49,16	48,75	46,52	2,002	2,026	2,061	2,121
39	48,75	34,4715	50,41	50,00	47,77	2,003	2,026	2,062	2,121
40	50,00	35,3553	51,66	51,25	49,02	2,003	2,027	2,062	2,122
41	51,25	36,2392	52,91	52,50	50,27	2,003	2,027	2,063	2,122
42	52,50	37,1231	54,16	53,75	51,52	2,003	2,027	2,063	2,123
43	53,75	38,0070	55,41	55,00	52,76	2,003	2,027	2,063	2,124
44	55,00	38,8909	56,66	56,25	54,01	2,003	2,027	2,064	2,124
45	56,25	39,7748	57,91	57,50	55,26	2,003	2,028	2,064	2,125
46	57,50	40,6586	59,16	58,75	56,51	2,004	2,028	2,064	2,125
47	58,75	41,5425	60,41	60,00	57,76	2,004	2,028	2,065	2,126
48	60,00	42,4264	61,66	61,25	59,01	2,004	2,028	2,065	2,126
49	61,25	43,3103	62,91	62,50	60,26	2,004	2,029	2,065	2,127
50	62,50	44,1942	64,16	63,75	61,51	2,004	2,029	2,066	2,127
51	63,75	45,0781	65,41	65,00	62,76	2,004	2,029	2,066	2,128
52	65,00	45,9619	66,67	66,25	64,01	2,004	2,029	2,066	2,128
53	66,25	46,8458	67,92	67,50	65,26	2,004	2,029	2,067	2,129
54	67,50	47,7297	69,17	68,75	66,51	2,005	2,030	2,067	2,129
55	68,75	48,6136	70,42	70,00	67,76	2,005	2,030	2,067	2,130
56	70,00	49,4975	71,67	71,25	69,01	2,005	2,030	2,068	2,130
57	71,25	50,3814	72,92	72,50	70,26	2,005	2,030	2,068	2,131
58	72,50	51,2652	74,17	73,75	71,51	2,005	2,030	2,068	2,131
59	73,75	52,1491	75,42	75,00	72,76	2,005	2,031	2,069	2,132
60	75,00	53,0330	76,67	76,25	74,01	2,005	2,031	2,069	2,132
61	76,25	53,9169	77,92	77,50	75,26	2,005	2,031	2,069	2,133
62	77,50	54,8008	79,17	78,75	76,51	2,006	2,031	2,069	2,133
63	78,75	55,6847	80,42	80,00	77,76	2,006	2,031	2,070	2,134
64	80,00	56,5685	81,67	81,25	79,01	2,006	2,031	2,070	2,134
65	81,25	57,4524	82,92	82,50	80,26	2,006	2,032	2,070	2,135
66	82,50	58,3363	84,17	83,75	81,51	2,006	2,032	2,071	2,135
67	83,75	59,2202	85,42	85,00	82,76	2,006	2,032	2,071	2,136
68	85,00	60,1041	86,67	86,25	84,01	2,006	2,032	2,071	2,136
69	86,25	60,9880	87,92	87,50	85,26	2,006	2,032	2,071	2,136
70	87,50	61,8718	89,17	88,75	86,51	2,006	2,033	2,072	2,137
71	88,75	62,7557	90,42	90,00	87,76	2,007	2,033	2,072	2,137
72	90,00	63,6396	91,67	91,25	89,01	2,007	2,033	2,072	2,138
73	91,25	64,5235	92,93	92,50	90,26	2,007	2,033	2,072	2,138
74	92,50	65,4074	94,18	93,75	91,51	2,007	2,033	2,073	2,139
75	93,75	66,2913	95,43	95,00	92,76	2,007	2,033	2,073	2,139
76	95,00	67,1751	96,68	96,25	94,01	2,007	2,034	2,073	2,139
77	96,25	68,0590	97,93	97,50	95,26	2,007	2,034	2,074	2,140
78	97,50	68,9429	99,18	98,75	96,51	2,007	2,034	2,074	2,140
79	98,75	69,8268	100,43	100,00	97,76	2,007	2,034	2,074	2,141
80	100,00	70,7107	101,68	101,25	99,01	2,008	2,034	2,074	2,141
81	101,25	71,5946	102,93	102,50	100,26	2,008	2,034	2,075	2,141
82	102,50	72,4784	104,18	103,75	101,51	2,008	2,035	2,075	2,142
83	103,75	73,3623	105,43	105,00	102,76	2,008	2,035	2,075	2,142
84	105,00	74,2462	106,68	106,25	104,01	2,008	2,035	2,075	2,143
85	106,25	75,1301	107,93	107,50	105,26	2,008	2,035	2,075	2,143
86	107,50	76,0140	109,18	108,75	106,51	2,008	2,035	2,076	2,143
87	108,75	76,8979	110,43	110,00	107,76	2,008	2,035	2,076	2,144
88	110,00	77,7817	111,68	111,25	109,01	2,008	2,035	2,076	2,144
89	111,25	78,6656	112,93	112,50	110,26	2,008	2,036	2,076	2,144
90	112,50	79,5495	114,18	113,75	111,51	2,008	2,036	2,077	2,145
91	113,75	80,4334	115,43	115,00	112,76	2,009	2,036	2,077	2,145
92	115,00	81,3173	116,68	116,25	114,01	2,009	2,036	2,077	2,146
93	116,25	82,2012	117,93	117,50	115,26	2,009	2,036	2,077	2,146
94	117,50	83,0850	119,18	118,75	116,51	2,009	2,036	2,078	2,146
95	118,75	83,9689	120,43	120,00	117,76	2,009	2,036	2,078	2,147
96	120,00	84,8528	121,68	121,25	119,01	2,009	2,037	2,078	2,147
97	121,25	85,7367	122,93	122,50	120,26	2,009	2,037	2,078	2,147
98	122,50	86,6206	124,18	123,75	121,51	2,009	2,037	2,078	2,148
99	123,75	87,5045	125,44	125,00	122,76	2,009	2,037	2,079	2,148
100	125,00	88,3883	126,69	126,25	124,01	2,009	2,037	2,079	2,148

Table 130 — Geometry external spline, $\alpha = 45°$, $m = 1{,}25$, fillet root, $S_{v\,max} = 1{,}963$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	7,50	5,3033	8,50	6,37	5,87	1,932	1,913	1,884	1,837
7	8,75	6,1872	9,75	7,60	7,12	1,931	1,912	1,883	1,835
8	10,00	7,0711	11,00	8,84	8,37	1,931	1,911	1,882	1,833
9	11,25	7,9550	12,25	10,08	9,62	1,930	1,911	1,881	1,832
10	12,50	8,8388	13,50	11,32	10,87	1,930	1,910	1,880	1,830
11	13,75	9,7227	14,75	12,56	12,12	1,929	1,909	1,879	1,829
12	15,00	10,6066	16,00	13,81	13,36	1,929	1,909	1,878	1,828
13	16,25	11,4905	17,25	15,05	14,61	1,929	1,908	1,878	1,826
14	17,50	12,3744	18,50	16,30	15,86	1,929	1,908	1,877	1,825
15	18,75	13,2583	19,75	17,54	17,11	1,928	1,907	1,876	1,824
16	20,00	14,1421	21,00	18,79	18,36	1,928	1,907	1,875	1,823
17	21,25	15,0260	22,25	20,04	19,61	1,928	1,907	1,875	1,822
18	22,50	15,9099	23,50	21,29	20,86	1,927	1,906	1,874	1,821
19	23,75	16,7938	24,75	22,53	22,11	1,927	1,906	1,874	1,820
20	25,00	17,6777	26,00	23,78	23,36	1,927	1,905	1,873	1,819
21	26,25	18,5616	27,25	25,03	24,60	1,927	1,905	1,872	1,818
22	27,50	19,4454	28,50	26,28	25,85	1,927	1,905	1,872	1,817
23	28,75	20,3293	29,75	27,53	27,10	1,926	1,904	1,871	1,816
24	30,00	21,2132	31,00	28,78	28,35	1,926	1,904	1,871	1,815
25	31,25	22,0971	32,25	30,03	29,60	1,926	1,904	1,870	1,815
26	32,50	22,9810	33,50	31,27	30,85	1,926	1,903	1,870	1,814
27	33,75	23,8649	34,75	32,52	32,10	1,926	1,903	1,869	1,813
28	35,00	24,7487	36,00	33,77	33,35	1,925	1,903	1,869	1,812
29	36,25	25,6326	37,25	35,02	34,60	1,925	1,902	1,868	1,812
30	37,50	26,5165	38,50	36,27	35,85	1,925	1,902	1,868	1,811
31	38,75	27,4004	39,75	37,52	37,10	1,925	1,902	1,867	1,810
32	40,00	28,2843	41,00	38,77	38,35	1,925	1,902	1,867	1,809
33	41,25	29,1682	42,25	40,02	39,60	1,924	1,901	1,867	1,809
34	42,50	30,0520	43,50	41,27	40,85	1,924	1,901	1,866	1,808
35	43,75	30,9359	44,75	42,52	42,09	1,924	1,901	1,866	1,807
36	45,00	31,8198	46,00	43,77	43,34	1,924	1,900	1,865	1,807
37	46,25	32,7037	47,25	45,02	44,59	1,924	1,900	1,865	1,806
38	47,50	33,5876	48,50	46,27	45,84	1,924	1,900	1,865	1,805
39	48,75	34,4715	49,75	47,52	47,09	1,923	1,900	1,864	1,805
40	50,00	35,3553	51,00	48,77	48,34	1,923	1,899	1,864	1,804
41	51,25	36,2392	52,25	50,02	49,59	1,923	1,899	1,863	1,804
42	52,50	37,1231	53,50	51,27	50,84	1,923	1,899	1,863	1,803
43	53,75	38,0070	54,75	52,51	52,09	1,923	1,899	1,863	1,802
44	55,00	38,8909	56,00	53,76	53,34	1,923	1,899	1,862	1,802
45	56,25	39,7748	57,25	55,01	54,59	1,923	1,898	1,862	1,801
46	57,50	40,6586	58,50	56,26	55,84	1,922	1,898	1,862	1,801
47	58,75	41,5425	59,75	57,51	57,09	1,922	1,898	1,861	1,800
48	60,00	42,4264	61,00	58,76	58,34	1,922	1,898	1,861	1,800
49	61,25	43,3103	62,25	60,01	59,59	1,922	1,897	1,861	1,799
50	62,50	44,1942	63,50	61,26	60,84	1,922	1,897	1,860	1,799
51	63,75	45,0781	64,75	62,51	62,09	1,922	1,897	1,860	1,798
52	65,00	45,9619	66,00	63,76	63,33	1,922	1,897	1,860	1,798
53	66,25	46,8458	67,25	65,01	64,58	1,922	1,897	1,859	1,797
54	67,50	47,7297	68,50	66,26	65,83	1,921	1,896	1,859	1,797
55	68,75	48,6136	69,75	67,51	67,08	1,921	1,896	1,859	1,796
56	70,00	49,4975	71,00	68,76	68,33	1,921	1,896	1,858	1,796
57	71,25	50,3814	72,25	70,01	69,58	1,921	1,896	1,858	1,795
58	72,50	51,2652	73,50	71,26	70,83	1,921	1,896	1,858	1,795
59	73,75	52,1491	74,75	72,51	72,08	1,921	1,895	1,857	1,794
60	75,00	53,0330	76,00	73,76	73,33	1,921	1,895	1,857	1,794
61	76,25	53,9169	77,25	75,01	74,58	1,921	1,895	1,857	1,793
62	77,50	54,8008	78,50	76,26	75,83	1,920	1,895	1,857	1,793
63	78,75	55,6847	79,75	77,51	77,08	1,920	1,895	1,856	1,792
64	80,00	56,5685	81,00	78,76	78,33	1,920	1,895	1,856	1,792
65	81,25	57,4524	82,25	80,01	79,58	1,920	1,894	1,856	1,791
66	82,50	58,3363	83,50	81,26	80,83	1,920	1,894	1,855	1,791
67	83,75	59,2202	84,75	82,51	82,08	1,920	1,894	1,855	1,790
68	85,00	60,1041	86,00	83,76	83,33	1,920	1,894	1,855	1,790
69	86,25	60,9880	87,25	85,01	84,58	1,920	1,894	1,855	1,790
70	87,50	61,8718	88,50	86,26	85,83	1,920	1,893	1,854	1,789
71	88,75	62,7557	89,75	87,51	87,08	1,919	1,893	1,854	1,789
72	90,00	63,6396	91,00	88,76	88,33	1,919	1,893	1,854	1,788
73	91,25	64,5235	92,25	90,01	89,57	1,919	1,893	1,854	1,788
74	92,50	65,4074	93,50	91,26	90,82	1,919	1,893	1,853	1,787
75	93,75	66,2913	94,75	92,51	92,07	1,919	1,893	1,853	1,787
76	95,00	67,1751	96,00	93,76	93,32	1,919	1,892	1,853	1,787
77	96,25	68,0590	97,25	95,01	94,57	1,919	1,892	1,852	1,786
78	97,50	68,9429	98,50	96,26	95,82	1,919	1,892	1,852	1,786
79	98,75	69,8268	99,75	97,51	97,07	1,919	1,892	1,852	1,785
80	100,00	70,7107	101,00	98,76	98,32	1,918	1,892	1,852	1,785
81	101,25	71,5946	102,25	100,01	99,57	1,918	1,892	1,851	1,785
82	102,50	72,4784	103,50	101,26	100,82	1,918	1,891	1,851	1,784
83	103,75	73,3623	104,75	102,51	102,07	1,918	1,891	1,851	1,784
84	105,00	74,2462	106,00	103,76	103,32	1,918	1,891	1,851	1,783
85	106,25	75,1301	107,25	105,01	104,57	1,918	1,891	1,851	1,783
86	107,50	76,0140	108,50	106,26	105,82	1,918	1,891	1,850	1,783
87	108,75	76,8979	109,75	107,51	107,07	1,918	1,891	1,850	1,782
88	110,00	77,7817	111,00	108,76	108,32	1,918	1,891	1,850	1,782
89	111,25	78,6656	112,25	110,01	109,57	1,918	1,890	1,850	1,782
90	112,50	79,5495	113,50	111,26	110,82	1,918	1,890	1,849	1,781
91	113,75	80,4334	114,75	112,51	112,07	1,917	1,890	1,849	1,781
92	115,00	81,3173	116,00	113,76	113,32	1,917	1,890	1,849	1,780
93	116,25	82,2012	117,25	115,01	114,57	1,917	1,890	1,849	1,780
94	117,50	83,0850	118,50	116,26	115,82	1,917	1,890	1,848	1,780
95	118,75	83,9689	119,75	117,51	117,07	1,917	1,890	1,848	1,779
96	120,00	84,8528	121,00	118,76	118,32	1,917	1,889	1,848	1,779
97	121,25	85,7367	122,25	120,01	119,57	1,917	1,889	1,848	1,779
98	122,50	86,6206	123,50	121,26	120,82	1,917	1,889	1,848	1,778
99	123,75	87,5045	124,75	122,51	122,06	1,917	1,889	1,847	1,778
100	125,00	88,3883	126,00	123,76	123,31	1,917	1,889	1,847	1,778

Table 131 — Inspection dimensions internal spline, $\alpha = 45°$, $m = 1{,}25$, $E_{v\,min} = 1{,}963$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	2,36	3,529	3,560	3,538	3,590	3,551	3,634	3,573	3,704	1,458
7	2,36	4,667	4,694	4,675	4,719	4,687	4,757	4,705	4,818	1,272
8	2,36	6,136	6,161	6,143	6,185	6,154	6,222	6,172	6,282	1,230
9	2,50	6,878	6,903	6,886	6,928	6,897	6,964	6,914	7,025	1,224
10	2,50	8,299	8,323	8,306	8,348	8,317	8,384	8,335	8,444	1,199
11	2,50	9,445	9,469	9,452	9,492	9,463	9,528	9,480	9,586	1,157
12	2,50	10,832	10,856	10,840	10,879	10,851	10,915	10,868	10,973	1,147
13	2,50	11,988	12,011	11,995	12,034	12,006	12,069	12,023	12,126	1,121
14	2,65	12,961	12,984	12,968	13,008	12,979	13,044	12,997	13,103	1,143
15	2,65	14,129	14,152	14,137	14,176	14,147	14,211	14,165	14,270	1,122
16	2,65	15,481	15,503	15,488	15,527	15,499	15,563	15,517	15,621	1,117
17	2,65	16,656	16,678	16,663	16,702	16,674	16,737	16,691	16,795	1,102
18	2,65	17,995	18,017	18,003	18,041	18,014	18,076	18,031	18,135	1,099
19	2,65	19,176	19,198	19,184	19,222	19,195	19,257	19,212	19,316	1,088
20	2,65	20,506	20,528	20,514	20,552	20,525	20,587	20,542	20,646	1,086
21	2,65	21,692	21,714	21,700	21,738	21,711	21,773	21,729	21,832	1,077
22	2,65	23,015	23,037	23,023	23,060	23,034	23,096	23,051	23,155	1,076
23	2,65	24,206	24,227	24,213	24,251	24,225	24,287	24,243	24,345	1,069
24	2,65	25,522	25,544	25,530	25,567	25,541	25,603	25,559	25,662	1,068
25	2,65	26,717	26,738	26,725	26,762	26,736	26,798	26,754	26,857	1,062
26	2,65	28,027	28,049	28,036	28,073	28,047	28,109	28,065	28,168	1,061
27	2,65	29,226	29,248	29,234	29,272	29,246	29,307	29,264	29,367	1,057
28	2,65	30,532	30,554	30,541	30,578	30,552	30,614	30,571	30,674	1,056
29	2,65	31,734	31,756	31,742	31,780	31,754	31,816	31,772	31,875	1,052
30	2,65	33,037	33,058	33,045	33,082	33,057	33,118	33,075	33,178	1,051
31	2,65	34,241	34,263	34,249	34,287	34,261	34,323	34,280	34,383	1,048
32	2,65	35,540	35,562	35,549	35,586	35,561	35,622	35,579	35,683	1,048
33	2,80	36,374	36,395	36,382	36,420	36,395	36,456	36,414	36,517	1,052
34	2,80	37,670	37,692	37,679	37,716	37,691	37,753	37,710	37,814	1,051
35	2,80	38,880	38,902	38,889	38,926	38,901	38,963	38,920	39,024	1,048
36	2,80	40,174	40,195	40,183	40,220	40,195	40,257	40,214	40,318	1,048
37	2,80	41,386	41,407	41,394	41,432	41,407	41,469	41,426	41,530	1,045
38	2,80	42,677	42,698	42,686	42,723	42,698	42,760	42,718	42,822	1,045
39	2,80	43,891	43,912	43,900	43,937	43,912	43,974	43,932	44,036	1,043
40	2,80	45,180	45,201	45,189	45,226	45,201	45,263	45,221	45,325	1,042
41	2,80	46,395	46,416	46,404	46,441	46,417	46,479	46,437	46,541	1,040
42	2,80	47,683	47,704	47,692	47,729	47,704	47,766	47,724	47,829	1,040
43	2,80	48,899	48,920	48,908	48,945	48,921	48,983	48,941	49,046	1,038
44	2,80	50,185	50,206	50,194	50,231	50,207	50,269	50,227	50,332	1,038
45	2,80	51,403	51,424	51,412	51,449	51,425	51,487	51,445	51,550	1,036
46	2,80	52,687	52,708	52,696	52,733	52,709	52,771	52,730	52,834	1,036
47	2,80	53,906	53,927	53,916	53,953	53,929	53,991	53,949	54,054	1,034
48	2,80	55,189	55,210	55,198	55,235	55,212	55,273	55,232	55,337	1,034
49	2,80	56,410	56,430	56,419	56,456	56,432	56,494	56,453	56,558	1,033
50	2,80	57,691	57,712	57,700	57,737	57,714	57,776	57,734	57,839	1,033
51	2,80	58,912	58,933	58,922	58,959	58,935	58,997	58,956	59,061	1,031
52	2,80	60,193	60,213	60,202	60,239	60,216	60,277	60,237	60,342	1,031
53	2,80	61,415	61,436	61,425	61,462	61,438	61,500	61,459	61,564	1,030
54	2,80	62,694	62,715	62,704	62,741	62,717	62,779	62,739	62,844	1,030
55	2,80	63,918	63,938	63,927	63,964	63,941	64,003	63,962	64,067	1,029
56	2,80	65,196	65,216	65,205	65,242	65,219	65,281	65,241	65,346	1,029
57	2,80	66,420	66,441	66,430	66,467	66,444	66,506	66,465	66,570	1,028
58	2,80	67,697	67,718	67,707	67,744	67,721	67,783	67,742	67,848	1,028
59	2,80	68,922	68,943	68,932	68,969	68,946	69,008	68,968	69,073	1,027
60	2,80	70,198	70,219	70,208	70,245	70,222	70,284	70,244	70,349	1,027
61	2,80	71,424	71,445	71,434	71,471	71,448	71,510	71,470	71,576	1,026
62	2,80	72,700	72,720	72,710	72,746	72,724	72,786	72,746	72,851	1,026
63	2,80	73,926	73,947	73,936	73,973	73,951	74,013	73,973	74,078	1,025
64	2,80	75,201	75,221	75,211	75,248	75,225	75,287	75,247	75,353	1,025
65	2,80	76,428	76,449	76,438	76,475	76,453	76,515	76,475	76,581	1,024
66	2,80	77,702	77,722	77,712	77,749	77,727	77,788	77,749	77,855	1,024
67	2,80	78,930	78,950	78,940	78,977	78,955	79,017	78,977	79,083	1,023
68	2,80	80,203	80,223	80,213	80,250	80,228	80,290	80,250	80,356	1,023
69	2,80	81,431	81,452	81,442	81,479	81,457	81,518	81,479	81,585	1,023
70	2,80	82,704	82,724	82,714	82,751	82,729	82,791	82,752	82,858	1,022
71	2,80	83,933	83,953	83,944	83,980	83,958	84,020	83,981	84,087	1,022
72	2,80	85,205	85,225	85,215	85,252	85,230	85,292	85,253	85,359	1,022
73	2,80	86,435	86,455	86,445	86,482	86,460	86,522	86,483	86,589	1,021
74	2,80	87,706	87,726	87,716	87,753	87,731	87,793	87,754	87,860	1,021
75	2,80	88,936	88,956	88,947	88,983	88,962	89,024	88,985	89,091	1,021
76	2,80	90,206	90,227	90,217	90,254	90,232	90,294	90,256	90,362	1,021
77	2,80	91,437	91,457	91,448	91,485	91,463	91,525	91,487	91,593	1,020
78	2,80	92,707	92,727	92,718	92,755	92,733	92,795	92,757	92,863	1,020
79	2,80	93,939	93,959	93,949	93,986	93,965	94,027	93,988	94,095	1,019
80	2,80	95,208	95,228	95,219	95,255	95,234	95,296	95,258	95,364	1,019
81	2,80	96,440	96,460	96,451	96,487	96,466	96,528	96,490	96,596	1,019
82	2,80	97,709	97,729	97,720	97,756	97,735	97,797	97,759	97,866	1,019
83	2,80	98,941	98,961	98,952	98,988	98,968	99,030	98,992	99,098	1,018
84	2,80	100,210	100,230	100,221	100,257	100,236	100,298	100,260	100,367	1,018
85	2,80	101,442	101,462	101,453	101,490	101,469	101,531	101,493	101,600	1,018
86	2,80	102,710	102,730	102,722	102,758	102,737	102,799	102,762	102,868	1,018
87	2,80	103,943	103,963	103,954	103,991	103,970	104,032	103,995	104,101	1,018
88	2,80	105,211	105,231	105,222	105,259	105,238	105,300	105,263	105,369	1,018
89	2,80	106,444	106,464	106,456	106,492	106,472	106,534	106,496	106,603	1,017
90	2,80	107,712	107,732	107,723	107,759	107,739	107,801	107,764	107,870	1,017
91	2,80	108,945	108,965	108,957	108,993	108,973	109,035	108,998	109,104	1,017
92	2,80	110,212	110,232	110,224	110,260	110,240	110,302	110,265	110,371	1,017
93	2,80	111,446	111,466	111,458	111,494	111,474	111,536	111,499	111,606	1,016
94	2,80	112,713	112,733	112,724	112,761	112,741	112,803	112,766	112,873	1,016
95	2,80	113,947	113,967	113,959	113,995	113,975	114,037	114,000	114,107	1,016
96	2,80	115,213	115,233	115,225	115,261	115,241	115,303	115,267	115,374	1,016
97	2,80	116,448	116,468	116,460	116,496	116,476	116,538	116,501	116,608	1,016
98	2,80	117,714	117,734	117,726	117,762	117,742	117,804	117,768	117,875	1,016
99	2,80	118,949	118,969	118,961	118,997	118,977	119,039	119,003	119,110	1,015
100	2,80	120,215	120,234	120,226	120,263	120,243	120,305	120,269	120,376	1,015

Table 132 — Inspection dimensions external spline, $\alpha = 45°$, $m = 1{,}25$, $S_{v\,max} = 1{,}963$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	4,00	14,717	14,732	14,701	14,728	14,678	14,721	14,640	14,710	0,816
7	3,75	15,166	15,182	15,150	15,177	15,127	15,170	15,088	15,159	0,814
8	3,55	16,296	16,313	16,280	16,308	16,255	16,301	16,214	16,289	0,852
9	3,55	17,353	17,370	17,337	17,365	17,312	17,358	17,270	17,346	0,848
10	3,35	18,387	18,405	18,370	18,399	18,344	18,391	18,300	18,379	0,877
11	3,35	19,484	19,502	19,467	19,496	19,440	19,488	19,396	19,476	0,875
12	3,35	20,911	20,929	20,893	20,924	20,866	20,915	20,821	20,902	0,890
13	3,35	22,034	22,052	22,016	22,046	21,989	22,038	21,943	22,025	0,889
14	3,15	22,975	22,993	22,956	22,988	22,928	22,979	22,881	22,965	0,908
15	3,15	24,116	24,135	24,097	24,129	24,069	24,120	24,022	24,106	0,907
16	3,15	25,488	25,506	25,469	25,500	25,440	25,491	25,392	25,477	0,916
17	3,15	26,642	26,661	26,623	26,655	26,594	26,646	26,546	26,632	0,916
18	3,15	27,998	28,017	27,978	28,010	27,949	28,001	27,900	27,987	0,923
19	3,15	29,163	29,182	29,143	29,175	29,114	29,166	29,064	29,152	0,923
20	3,15	30,506	30,525	30,486	30,519	30,456	30,509	30,406	30,494	0,929
21	3,15	31,680	31,699	31,660	31,692	31,630	31,683	31,579	31,668	0,929
22	3,00	32,665	32,684	32,645	32,678	32,614	32,668	32,563	32,653	0,939
23	3,00	33,846	33,865	33,825	33,858	33,794	33,848	33,743	33,833	0,939
24	3,00	35,171	35,190	35,150	35,183	35,118	35,173	35,066	35,157	0,943
25	3,00	36,357	36,376	36,336	36,369	36,305	36,359	36,252	36,343	0,943
26	3,00	37,675	37,694	37,654	37,687	37,622	37,677	37,569	37,661	0,947
27	3,00	38,866	38,885	38,845	38,878	38,813	38,868	38,760	38,852	0,947
28	3,00	40,179	40,198	40,157	40,191	40,125	40,180	40,072	40,164	0,950
29	3,00	41,374	41,393	41,353	41,386	41,320	41,376	41,266	41,359	0,950
30	3,00	42,682	42,702	42,660	42,694	42,628	42,683	42,574	42,667	0,953
31	3,00	43,881	43,900	43,859	43,893	43,827	43,882	43,772	43,865	0,953
32	3,00	45,185	45,204	45,163	45,197	45,130	45,186	45,075	45,169	0,955
33	3,00	46,387	46,407	46,365	46,399	46,332	46,388	46,277	46,371	0,955
34	3,00	47,688	47,707	47,665	47,699	47,632	47,688	47,577	47,671	0,957
35	3,00	48,893	48,912	48,870	48,904	48,837	48,893	48,781	48,876	0,957
36	3,00	50,190	50,209	50,168	50,202	50,134	50,190	50,078	50,173	0,959
37	3,00	51,397	51,417	51,375	51,409	51,341	51,398	51,285	51,380	0,960
38	3,00	52,692	52,712	52,669	52,704	52,635	52,692	52,579	52,674	0,961
39	3,00	53,902	53,921	53,879	53,913	53,845	53,902	53,788	53,884	0,961
40	3,00	55,194	55,213	55,171	55,205	55,137	55,194	55,079	55,176	0,963
41	3,00	56,406	56,425	56,383	56,417	56,348	56,405	56,291	56,387	0,963
42	3,00	57,696	57,715	57,673	57,707	57,638	57,695	57,580	57,677	0,965
43	3,00	58,909	58,929	58,886	58,920	58,851	58,908	58,793	58,890	0,965
44	3,00	60,197	60,217	60,174	60,208	60,139	60,196	60,081	60,178	0,966
45	3,00	61,412	61,432	61,389	61,423	61,354	61,411	61,295	61,392	0,966
46	3,00	62,699	62,718	62,675	62,710	62,640	62,697	62,581	62,678	0,967
47	3,00	63,915	63,935	63,892	63,926	63,856	63,914	63,797	63,895	0,967
48	3,00	65,200	65,219	65,176	65,211	65,141	65,198	65,081	65,179	0,969
49	3,00	66,418	66,437	66,394	66,429	66,358	66,416	66,299	66,397	0,969
50	3,00	67,701	67,721	67,677	67,712	67,641	67,699	67,582	67,680	0,970
51	3,00	68,920	68,940	68,896	68,931	68,860	68,918	68,800	68,899	0,970
52	3,00	70,202	70,222	70,178	70,213	70,142	70,200	70,082	70,180	0,971
53	3,00	71,423	71,442	71,398	71,433	71,362	71,420	71,302	71,400	0,971
54	3,00	72,703	72,723	72,679	72,714	72,642	72,701	72,582	72,681	0,972
55	3,00	73,925	73,944	73,900	73,935	73,864	73,922	73,803	73,902	0,972
56	3,00	75,204	75,224	75,180	75,214	75,143	75,201	75,082	75,181	0,973
57	3,00	76,427	76,446	76,402	76,437	76,365	76,424	76,304	76,403	0,973
58	3,00	77,705	77,724	77,680	77,715	77,643	77,702	77,582	77,681	0,974
59	3,00	78,928	78,948	78,904	78,938	78,867	78,925	78,805	78,905	0,974
60	3,00	80,206	80,225	80,181	80,216	80,144	80,202	80,082	80,182	0,974
61	3,00	81,430	81,449	81,405	81,440	81,368	81,427	81,306	81,406	0,974
62	3,00	82,706	82,726	82,681	82,716	82,644	82,703	82,582	82,682	0,975
63	3,00	83,931	83,951	83,907	83,941	83,869	83,928	83,807	83,907	0,975
64	3,00	85,207	85,226	85,182	85,217	85,144	85,203	85,082	85,182	0,976
65	3,00	86,433	86,452	86,408	86,443	86,370	86,429	86,307	86,408	0,976
66	3,00	87,708	87,727	87,682	87,717	87,645	87,704	87,582	87,682	0,977
67	3,00	88,934	88,954	88,909	88,944	88,871	88,930	88,808	88,909	0,977
68	3,00	90,208	90,228	90,183	90,218	90,145	90,204	90,081	90,182	0,977
69	3,00	91,436	91,455	91,410	91,445	91,372	91,431	91,308	91,409	0,977
70	3,00	92,709	92,728	92,683	92,718	92,645	92,704	92,581	92,682	0,978
71	3,00	93,937	93,956	93,911	93,946	93,873	93,932	93,809	93,910	0,978
72	3,00	95,209	95,229	95,184	95,219	95,145	95,204	95,081	95,182	0,978
73	3,00	96,438	96,457	96,412	96,447	96,374	96,433	96,309	96,411	0,978
74	3,00	97,710	97,729	97,684	97,719	97,645	97,705	97,581	97,682	0,979
75	3,00	98,939	98,958	98,913	98,948	98,874	98,934	98,810	98,911	0,979
76	3,00	100,210	100,229	100,184	100,219	100,145	100,205	100,081	100,182	0,979
77	3,00	101,440	101,459	101,414	101,449	101,375	101,434	101,310	101,412	0,979
78	3,00	102,711	102,730	102,684	102,719	102,645	102,705	102,580	102,682	0,980
79	3,00	103,941	103,960	103,915	103,950	103,876	103,935	103,810	103,912	0,980
80	3,00	105,211	105,230	105,185	105,220	105,146	105,205	105,080	105,182	0,980
81	3,00	106,442	106,461	106,415	106,450	106,376	106,436	106,311	106,413	0,980
82	3,00	107,711	107,731	107,685	107,720	107,646	107,705	107,580	107,682	0,981
83	3,00	108,942	108,962	108,916	108,951	108,877	108,936	108,811	108,913	0,981
84	3,00	110,212	110,231	110,185	110,220	110,146	110,205	110,079	110,182	0,981
85	3,00	111,443	111,462	111,417	111,452	111,377	111,437	111,311	111,413	0,981
86	3,00	112,712	112,731	112,685	112,720	112,646	112,705	112,579	112,682	0,982
87	3,00	113,944	113,963	113,917	113,952	113,877	113,937	113,811	113,914	0,982
88	3,00	115,212	115,231	115,186	115,221	115,146	115,205	115,079	115,182	0,982
89	3,00	116,445	116,464	116,418	116,453	116,378	116,438	116,311	116,414	0,982
90	3,00	117,712	117,732	117,686	117,721	117,646	117,705	117,579	117,682	0,982
91	3,00	118,945	118,965	118,919	118,953	118,878	118,938	118,811	118,914	0,983
92	3,00	120,213	120,232	120,186	120,221	120,145	120,205	120,078	120,181	0,983
93	3,00	121,446	121,465	121,419	121,454	121,379	121,438	121,311	121,414	0,983
94	3,00	122,713	122,732	122,686	122,721	122,645	122,705	122,578	122,681	0,983
95	3,00	123,947	123,966	123,919	123,954	123,879	123,939	123,811	123,915	0,983
96	3,00	125,213	125,232	125,186	125,221	125,145	125,205	125,078	125,181	0,984
97	3,00	126,447	126,466	126,420	126,455	126,379	126,439	126,311	126,415	0,984
98	3,00	127,713	127,732	127,686	127,721	127,645	127,705	127,577	127,681	0,984
99	3,00	128,948	128,967	128,920	128,955	128,879	128,939	128,811	128,915	0,984
100	3,00	130,214	130,233	130,186	130,221	130,145	130,205	130,077	130,181	0,984

5.34 45° pressure angle, module 1,5

Table 133 — Geometry internal spline, $\alpha = 45°$, $m = 1{,}5$, fillet root, $E_{v\,min} = 2{,}356$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	9,00	6,3640	10,93	10,50	7,95	2,389	2,410	2,440	2,490
7	10,50	7,4246	12,44	12,00	9,42	2,390	2,410	2,441	2,492
8	12,00	8,4853	13,94	13,50	10,91	2,390	2,411	2,442	2,494
9	13,50	9,5459	15,44	15,00	12,39	2,391	2,412	2,443	2,496
10	15,00	10,6066	16,94	16,50	13,88	2,391	2,412	2,444	2,497
11	16,50	11,6673	18,44	18,00	15,37	2,392	2,413	2,445	2,499
12	18,00	12,7279	19,94	19,50	16,87	2,392	2,414	2,446	2,500
13	19,50	13,7886	21,45	21,00	18,36	2,392	2,414	2,447	2,501
14	21,00	14,8492	22,95	22,50	19,86	2,393	2,415	2,448	2,503
15	22,50	15,9099	24,45	24,00	21,35	2,393	2,415	2,448	2,504
16	24,00	16,9706	25,95	25,50	22,85	2,393	2,416	2,449	2,505
17	25,50	18,0312	27,45	27,00	24,35	2,394	2,416	2,450	2,506
18	27,00	19,0919	28,95	28,50	25,84	2,394	2,417	2,451	2,507
19	28,50	20,1525	30,45	30,00	27,34	2,394	2,417	2,451	2,508
20	30,00	21,2132	31,95	31,50	28,84	2,394	2,417	2,452	2,509
21	31,50	22,2739	33,45	33,00	30,34	2,395	2,418	2,452	2,510
22	33,00	23,3345	34,96	34,50	31,84	2,395	2,418	2,453	2,511
23	34,50	24,3952	36,46	36,00	33,33	2,395	2,418	2,454	2,512
24	36,00	25,4558	37,96	37,50	34,83	2,395	2,419	2,454	2,513
25	37,50	26,5165	39,46	39,00	36,33	2,395	2,419	2,455	2,514
26	39,00	27,5772	40,96	40,50	37,83	2,396	2,420	2,455	2,515
27	40,50	28,6378	42,46	42,00	39,33	2,396	2,420	2,456	2,516
28	42,00	29,6985	43,96	43,50	40,83	2,396	2,420	2,456	2,516
29	43,50	30,7591	45,46	45,00	42,33	2,396	2,420	2,457	2,517
30	45,00	31,8198	46,96	46,50	43,83	2,397	2,421	2,457	2,518
31	46,50	32,8805	48,46	48,00	45,32	2,397	2,421	2,458	2,519
32	48,00	33,9411	49,96	49,50	46,82	2,397	2,421	2,458	2,520
33	49,50	35,0018	51,46	51,00	48,32	2,397	2,422	2,459	2,520
34	51,00	36,0624	52,96	52,50	49,82	2,397	2,422	2,459	2,521
35	52,50	37,1231	54,47	54,00	51,32	2,397	2,422	2,460	2,522
36	54,00	38,1838	55,97	55,50	52,82	2,398	2,423	2,460	2,522
37	55,50	39,2444	57,47	57,00	54,32	2,398	2,423	2,460	2,523
38	57,00	40,3051	58,97	58,50	55,82	2,398	2,423	2,461	2,524
39	58,50	41,3657	60,47	60,00	57,32	2,398	2,423	2,461	2,524
40	60,00	42,4264	61,97	61,50	58,82	2,398	2,424	2,462	2,525
41	61,50	43,4871	63,47	63,00	60,32	2,398	2,424	2,462	2,526
42	63,00	44,5477	64,97	64,50	61,82	2,399	2,424	2,462	2,526
43	64,50	45,6084	66,47	66,00	63,32	2,399	2,424	2,463	2,527
44	66,00	46,6690	67,97	67,50	64,82	2,399	2,425	2,463	2,528
45	67,50	47,7297	69,47	69,00	66,32	2,399	2,425	2,464	2,528
46	69,00	48,7904	70,97	70,50	67,82	2,399	2,425	2,464	2,529
47	70,50	49,8510	72,47	72,00	69,32	2,399	2,425	2,464	2,529
48	72,00	50,9117	73,97	73,50	70,82	2,399	2,426	2,465	2,530
49	73,50	51,9723	75,47	75,00	72,32	2,400	2,426	2,465	2,531
50	75,00	53,0330	76,98	76,50	73,82	2,400	2,426	2,465	2,531
51	76,50	54,0937	78,48	78,00	75,31	2,400	2,426	2,466	2,532
52	78,00	55,1543	79,98	79,50	76,81	2,400	2,426	2,466	2,532
53	79,50	56,2150	81,48	81,00	78,31	2,400	2,427	2,466	2,533
54	81,00	57,2756	82,98	82,50	79,81	2,400	2,427	2,467	2,533
55	82,50	58,3363	84,48	84,00	81,31	2,400	2,427	2,467	2,534
56	84,00	59,3970	85,98	85,50	82,81	2,401	2,427	2,467	2,534
57	85,50	60,4576	87,48	87,00	84,31	2,401	2,428	2,468	2,535
58	87,00	61,5183	88,98	88,50	85,81	2,401	2,428	2,468	2,535
59	88,50	62,5790	90,48	90,00	87,31	2,401	2,428	2,468	2,536
60	90,00	63,6396	91,98	91,50	88,81	2,401	2,428	2,469	2,536
61	91,50	64,7003	93,48	93,00	90,31	2,401	2,428	2,469	2,537
62	93,00	65,7609	94,98	94,50	91,81	2,401	2,429	2,469	2,537
63	94,50	66,8216	96,48	96,00	93,31	2,401	2,429	2,470	2,538
64	96,00	67,8823	97,98	97,50	94,81	2,402	2,429	2,470	2,538
65	97,50	68,9429	99,48	99,00	96,31	2,402	2,429	2,470	2,539
66	99,00	70,0036	100,98	100,50	97,81	2,402	2,429	2,471	2,539
67	100,50	71,0642	102,48	102,00	99,31	2,402	2,430	2,471	2,540
68	102,00	72,1249	103,98	103,50	100,81	2,402	2,430	2,471	2,540
69	103,50	73,1856	105,48	105,00	102,31	2,402	2,430	2,472	2,541
70	105,00	74,2462	106,99	106,50	103,81	2,402	2,430	2,472	2,541
71	106,50	75,3069	108,49	108,00	105,31	2,402	2,430	2,472	2,542
72	108,00	76,3675	109,99	109,50	106,81	2,403	2,430	2,472	2,542
73	109,50	77,4282	111,49	111,00	108,31	2,403	2,431	2,473	2,543
74	111,00	78,4889	112,99	112,50	109,81	2,403	2,431	2,473	2,543
75	112,50	79,5495	114,49	114,00	111,31	2,403	2,431	2,473	2,544
76	114,00	80,6102	115,99	115,50	112,81	2,403	2,431	2,474	2,544
77	115,50	81,6708	117,49	117,00	114,31	2,403	2,431	2,474	2,544
78	117,00	82,7315	118,99	118,50	115,81	2,403	2,432	2,474	2,545
79	118,50	83,7922	120,49	120,00	117,31	2,403	2,432	2,474	2,545
80	120,00	84,8528	121,99	121,50	118,81	2,403	2,432	2,475	2,546
81	121,50	85,9135	123,49	123,00	120,31	2,404	2,432	2,475	2,546
82	123,00	86,9741	124,99	124,50	121,81	2,404	2,432	2,475	2,547
83	124,50	88,0348	126,49	126,00	123,31	2,404	2,432	2,475	2,547
84	126,00	89,0955	127,99	127,50	124,81	2,404	2,433	2,476	2,547
85	127,50	90,1561	129,49	129,00	126,31	2,404	2,433	2,476	2,548
86	129,00	91,2168	130,99	130,50	127,81	2,404	2,433	2,476	2,548
87	130,50	92,2774	132,49	132,00	129,31	2,404	2,433	2,476	2,549
88	132,00	93,3381	133,99	133,50	130,81	2,404	2,433	2,477	2,549
89	133,50	94,3988	135,49	135,00	132,31	2,404	2,433	2,477	2,550
90	135,00	95,4594	136,99	136,50	133,81	2,404	2,434	2,477	2,550
91	136,50	96,5201	138,49	138,00	135,31	2,405	2,434	2,477	2,550
92	138,00	97,5807	139,99	139,50	136,81	2,405	2,434	2,478	2,551
93	139,50	98,6414	141,50	141,00	138,31	2,405	2,434	2,478	2,551
94	141,00	99,7021	143,00	142,50	139,81	2,405	2,434	2,478	2,552
95	142,50	100,7627	144,50	144,00	141,31	2,405	2,434	2,478	2,552
96	144,00	101,8234	146,00	145,50	142,81	2,405	2,435	2,479	2,552
97	145,50	102,8840	147,50	147,00	144,31	2,405	2,435	2,479	2,553
98	147,00	103,9447	149,00	148,50	145,81	2,405	2,435	2,479	2,553
99	148,50	105,0054	150,50	150,00	147,31	2,405	2,435	2,479	2,553
100	150,00	106,0660	152,00	151,50	148,81	2,405	2,435	2,480	2,554

Table 134 — Geometry external spline, $\alpha = 45°$, $m = 1{,}5$, fillet root, $S_{v\,max} = 2{,}356$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	9,00	6,3640	10,20	7,65	7,07	2,323	2,302	2,272	2,222
7	10,50	7,4246	11,70	9,12	8,56	2,322	2,302	2,271	2,220
8	12,00	8,4853	13,20	10,61	10,06	2,322	2,301	2,270	2,218
9	13,50	9,5459	14,70	12,09	11,56	2,321	2,300	2,269	2,216
10	15,00	10,6066	16,20	13,58	13,06	2,321	2,300	2,268	2,215
11	16,50	11,6673	17,70	15,07	14,56	2,320	2,299	2,267	2,213
12	18,00	12,7279	19,20	16,57	16,06	2,320	2,298	2,266	2,212
13	19,50	13,7886	20,70	18,06	17,55	2,320	2,298	2,265	2,211
14	21,00	14,8492	22,20	19,56	19,05	2,319	2,297	2,264	2,209
15	22,50	15,9099	23,70	21,05	20,55	2,319	2,297	2,264	2,208
16	24,00	16,9706	25,20	22,55	22,05	2,319	2,296	2,263	2,207
17	25,50	18,0312	26,70	24,05	23,55	2,318	2,296	2,262	2,206
18	27,00	19,0919	28,20	25,54	25,05	2,318	2,295	2,261	2,205
19	28,50	20,1525	29,70	27,04	26,55	2,318	2,295	2,261	2,204
20	30,00	21,2132	31,20	28,54	28,05	2,318	2,295	2,260	2,203
21	31,50	22,2739	32,70	30,04	29,55	2,317	2,294	2,260	2,202
22	33,00	23,3345	34,20	31,54	31,04	2,317	2,294	2,259	2,201
23	34,50	24,3952	35,70	33,03	32,54	2,317	2,294	2,258	2,200
24	36,00	25,4558	37,20	34,53	34,04	2,317	2,293	2,258	2,199
25	37,50	26,5165	38,70	36,03	35,54	2,317	2,293	2,257	2,198
26	39,00	27,5772	40,20	37,53	37,04	2,316	2,292	2,257	2,197
27	40,50	28,6378	41,70	39,03	38,54	2,316	2,292	2,256	2,196
28	42,00	29,6985	43,20	40,53	40,04	2,316	2,292	2,256	2,196
29	43,50	30,7591	44,70	42,03	41,54	2,316	2,292	2,255	2,195
30	45,00	31,8198	46,20	43,53	43,04	2,315	2,291	2,255	2,194
31	46,50	32,8805	47,70	45,02	44,54	2,315	2,291	2,254	2,193
32	48,00	33,9411	49,20	46,52	46,04	2,315	2,291	2,254	2,192
33	49,50	35,0018	50,70	48,02	47,54	2,315	2,290	2,253	2,192
34	51,00	36,0624	52,20	49,52	49,04	2,315	2,290	2,253	2,191
35	52,50	37,1231	53,70	51,02	50,53	2,315	2,290	2,252	2,190
36	54,00	38,1838	55,20	52,52	52,03	2,314	2,289	2,252	2,190
37	55,50	39,2444	56,70	54,02	53,53	2,314	2,289	2,252	2,189
38	57,00	40,3051	58,20	55,52	55,03	2,314	2,289	2,251	2,188
39	58,50	41,3657	59,70	57,02	56,53	2,314	2,289	2,251	2,188
40	60,00	42,4264	61,20	58,52	58,03	2,314	2,288	2,250	2,187
41	61,50	43,4871	62,70	60,02	59,53	2,314	2,288	2,250	2,186
42	63,00	44,5477	64,20	61,52	61,03	2,313	2,288	2,250	2,186
43	64,50	45,6084	65,70	63,02	62,53	2,313	2,288	2,249	2,185
44	66,00	46,6690	67,20	64,52	64,03	2,313	2,287	2,249	2,184
45	67,50	47,7297	68,70	66,02	65,53	2,313	2,287	2,248	2,184
46	69,00	48,7904	70,20	67,52	67,03	2,313	2,287	2,248	2,183
47	70,50	49,8510	71,70	69,02	68,53	2,313	2,287	2,248	2,183
48	72,00	50,9117	73,20	70,52	70,03	2,313	2,286	2,247	2,182
49	73,50	51,9723	74,70	72,02	71,53	2,312	2,286	2,247	2,181
50	75,00	53,0330	76,20	73,52	73,02	2,312	2,286	2,247	2,181
51	76,50	54,0937	77,70	75,01	74,52	2,312	2,286	2,246	2,180
52	78,00	55,1543	79,20	76,51	76,02	2,312	2,286	2,246	2,180
53	79,50	56,2150	80,70	78,01	77,52	2,312	2,285	2,246	2,179
54	81,00	57,2756	82,20	79,51	79,02	2,312	2,285	2,245	2,179
55	82,50	58,3363	83,70	81,01	80,52	2,312	2,285	2,245	2,178
56	84,00	59,3970	85,20	82,51	82,02	2,311	2,285	2,245	2,178
57	85,50	60,4576	86,70	84,01	83,52	2,311	2,284	2,244	2,177
58	87,00	61,5183	88,20	85,51	85,02	2,311	2,284	2,244	2,177
59	88,50	62,5790	89,70	87,01	86,52	2,311	2,284	2,244	2,176
60	90,00	63,6396	91,20	88,51	88,02	2,311	2,284	2,243	2,176
61	91,50	64,7003	92,70	90,01	89,52	2,311	2,284	2,243	2,175
62	93,00	65,7609	94,20	91,51	91,02	2,311	2,283	2,243	2,175
63	94,50	66,8216	95,70	93,01	92,52	2,311	2,283	2,242	2,174
64	96,00	67,8823	97,20	94,51	94,02	2,310	2,283	2,242	2,174
65	97,50	68,9429	98,70	96,01	95,52	2,310	2,283	2,242	2,173
66	99,00	70,0036	100,20	97,51	97,02	2,310	2,283	2,241	2,173
67	100,50	71,0642	101,70	99,01	98,52	2,310	2,282	2,241	2,172
68	102,00	72,1249	103,20	100,51	100,02	2,310	2,282	2,241	2,172
69	103,50	73,1856	104,70	102,01	101,52	2,310	2,282	2,240	2,171
70	105,00	74,2462	106,20	103,51	103,01	2,310	2,282	2,240	2,171
71	106,50	75,3069	107,70	105,01	104,51	2,310	2,282	2,240	2,170
72	108,00	76,3675	109,20	106,51	106,01	2,309	2,282	2,240	2,170
73	109,50	77,4282	110,70	108,01	107,51	2,309	2,281	2,239	2,169
74	111,00	78,4889	112,20	109,51	109,01	2,309	2,281	2,239	2,169
75	112,50	79,5495	113,70	111,01	110,51	2,309	2,281	2,239	2,168
76	114,00	80,6102	115,20	112,51	112,01	2,309	2,281	2,238	2,168
77	115,50	81,6708	116,70	114,01	113,51	2,309	2,281	2,238	2,168
78	117,00	82,7315	118,20	115,51	115,01	2,309	2,280	2,238	2,167
79	118,50	83,7922	119,70	117,01	116,51	2,309	2,280	2,238	2,167
80	120,00	84,8528	121,20	118,51	118,01	2,309	2,280	2,237	2,166
81	121,50	85,9135	122,70	120,01	119,51	2,308	2,280	2,237	2,166
82	123,00	86,9741	124,20	121,51	121,01	2,308	2,280	2,237	2,165
83	124,50	88,0348	125,70	123,01	122,51	2,308	2,280	2,237	2,165
84	126,00	89,0955	127,20	124,51	124,01	2,308	2,279	2,236	2,165
85	127,50	90,1561	128,70	126,01	125,51	2,308	2,279	2,236	2,164
86	129,00	91,2168	130,20	127,51	127,01	2,308	2,279	2,236	2,164
87	130,50	92,2774	131,70	129,01	128,51	2,308	2,279	2,236	2,163
88	132,00	93,3381	133,20	130,51	130,01	2,308	2,279	2,235	2,163
89	133,50	94,3988	134,70	132,01	131,51	2,308	2,279	2,235	2,162
90	135,00	95,4594	136,20	133,51	133,01	2,308	2,278	2,235	2,162
91	136,50	96,5201	137,70	135,01	134,51	2,307	2,278	2,235	2,162
92	138,00	97,5807	139,20	136,51	136,01	2,307	2,278	2,234	2,161
93	139,50	98,6414	140,70	138,01	137,50	2,307	2,278	2,234	2,161
94	141,00	99,7021	142,20	139,51	139,00	2,307	2,278	2,234	2,160
95	142,50	100,7627	143,70	141,01	140,50	2,307	2,278	2,234	2,160
96	144,00	101,8234	145,20	142,51	142,00	2,307	2,277	2,233	2,160
97	145,50	102,8840	146,70	144,01	143,50	2,307	2,277	2,233	2,159
98	147,00	103,9447	148,20	145,51	145,00	2,307	2,277	2,233	2,159
99	148,50	105,0054	149,70	147,01	146,50	2,307	2,277	2,233	2,159
100	150,00	106,0660	151,20	148,51	148,00	2,307	2,277	2,232	2,158

Table 135 — Inspection dimensions internal spline, $\alpha = 45°$, $m = 1{,}5$, $E_{v\,min} = 2{,}356$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	2,80	4,336	4,368	4,345	4,399	4,359	4,444	4,380	4,517	1,433
7	2,80	5,691	5,718	5,699	5,745	5,710	5,784	5,729	5,849	1,259
8	3,00	6,878	6,907	6,886	6,935	6,899	6,977	6,919	7,046	1,321
9	3,00	8,251	8,278	8,259	8,304	8,271	8,343	8,289	8,408	1,229
10	3,00	9,956	9,982	9,964	10,008	9,976	10,047	9,994	10,111	1,203
11	3,00	11,332	11,357	11,340	11,382	11,351	11,420	11,369	11,482	1,160
12	3,00	12,997	13,022	13,004	13,047	13,016	13,084	13,034	13,147	1,149
13	3,00	14,383	14,407	14,391	14,432	14,402	14,469	14,419	14,531	1,124
14	3,15	15,629	15,654	15,637	15,680	15,649	15,717	15,667	15,780	1,140
15	3,15	17,031	17,055	17,039	17,080	17,050	17,118	17,068	17,180	1,120
16	3,15	18,652	18,676	18,660	18,702	18,672	18,739	18,690	18,802	1,115
17	3,15	20,062	20,086	20,070	20,111	20,081	20,148	20,099	20,210	1,101
18	3,15	21,669	21,693	21,677	21,718	21,688	21,755	21,707	21,818	1,097
19	3,15	23,085	23,109	23,094	23,134	23,105	23,171	23,123	23,234	1,087
20	3,15	24,681	24,705	24,689	24,730	24,701	24,767	24,720	24,830	1,084
21	3,15	26,104	26,128	26,113	26,153	26,124	26,190	26,143	26,253	1,076
22	3,15	27,691	27,715	27,699	27,740	27,711	27,777	27,730	27,840	1,075
23	3,15	29,120	29,143	29,128	29,168	29,140	29,206	29,159	29,269	1,068
24	3,15	30,699	30,722	30,708	30,748	30,720	30,785	30,738	30,848	1,067
25	3,15	32,133	32,156	32,141	32,181	32,153	32,219	32,172	32,282	1,061
26	3,15	33,706	33,729	33,714	33,754	33,726	33,792	33,746	33,855	1,060
27	3,35	34,642	34,665	34,651	34,691	34,663	34,729	34,683	34,793	1,066
28	3,35	36,210	36,233	36,219	36,259	36,231	36,298	36,251	36,362	1,065
29	3,35	37,653	37,676	37,662	37,702	37,674	37,741	37,694	37,805	1,061
30	3,35	39,216	39,240	39,225	39,265	39,238	39,304	39,258	39,369	1,060
31	3,35	40,663	40,686	40,672	40,712	40,684	40,750	40,704	40,815	1,056
32	3,35	42,222	42,245	42,231	42,271	42,244	42,310	42,264	42,374	1,055
33	3,35	43,671	43,694	43,680	43,720	43,693	43,759	43,713	43,824	1,052
34	3,35	45,227	45,250	45,236	45,276	45,249	45,315	45,269	45,380	1,051
35	3,35	46,678	46,701	46,688	46,727	46,701	46,766	46,721	46,832	1,049
36	3,35	48,231	48,254	48,240	48,280	48,253	48,319	48,274	48,385	1,048
37	3,35	49,685	49,708	49,694	49,734	49,707	49,773	49,728	49,839	1,046
38	3,35	51,235	51,257	51,244	51,284	51,257	51,323	51,278	51,389	1,045
39	3,35	52,691	52,713	52,700	52,740	52,714	52,779	52,735	52,845	1,043
40	3,35	54,238	54,261	54,248	54,287	54,261	54,327	54,282	54,393	1,042
41	3,35	55,696	55,719	55,706	55,745	55,719	55,785	55,740	55,851	1,040
42	3,35	57,241	57,264	57,251	57,290	57,264	57,330	57,286	57,397	1,040
43	3,35	58,701	58,723	58,711	58,750	58,724	58,790	58,746	58,857	1,038
44	3,35	60,244	60,266	60,254	60,293	60,267	60,333	60,289	60,400	1,038
45	3,35	61,705	61,728	61,715	61,755	61,729	61,795	61,751	61,862	1,036
46	3,35	63,246	63,269	63,256	63,296	63,270	63,336	63,292	63,403	1,036
47	3,35	64,710	64,732	64,719	64,759	64,733	64,799	64,755	64,866	1,035
48	3,35	66,249	66,271	66,259	66,298	66,273	66,339	66,295	66,406	1,034
49	3,35	67,713	67,735	67,723	67,763	67,738	67,803	67,760	67,871	1,033
50	3,35	69,251	69,273	69,261	69,300	69,275	69,341	69,297	69,409	1,033
51	3,35	70,717	70,739	70,727	70,766	70,741	70,807	70,764	70,875	1,032
52	3,35	72,253	72,275	72,263	72,302	72,278	72,343	72,300	72,411	1,031
53	3,35	73,720	73,742	73,730	73,769	73,745	73,810	73,767	73,879	1,030
54	3,35	75,255	75,277	75,265	75,304	75,280	75,345	75,302	75,414	1,030
55	3,35	76,723	76,745	76,733	76,772	76,748	76,814	76,771	76,882	1,029
56	3,35	78,256	78,278	78,267	78,306	78,282	78,347	78,304	78,416	1,029
57	3,35	79,726	79,748	79,736	79,775	79,751	79,817	79,774	79,886	1,028
58	3,35	81,258	81,280	81,269	81,308	81,284	81,349	81,307	81,418	1,028
59	3,35	82,728	82,750	82,739	82,778	82,754	82,820	82,777	82,889	1,027
60	3,35	84,260	84,281	84,270	84,309	84,285	84,351	84,309	84,420	1,027
61	3,35	85,731	85,753	85,741	85,780	85,757	85,822	85,780	85,892	1,026
62	3,35	87,261	87,283	87,272	87,311	87,287	87,353	87,311	87,422	1,026
63	3,35	88,733	88,755	88,744	88,783	88,759	88,825	88,783	88,895	1,025
64	3,35	90,262	90,284	90,273	90,312	90,289	90,354	90,312	90,424	1,025
65	3,35	91,735	91,757	91,746	91,785	91,762	91,827	91,785	91,898	1,024
66	3,35	93,264	93,285	93,275	93,313	93,290	93,356	93,314	93,426	1,024
67	3,35	94,737	94,759	94,748	94,787	94,764	94,830	94,788	94,900	1,023
68	3,35	96,265	96,286	96,276	96,315	96,292	96,357	96,316	96,428	1,023
69	3,35	97,739	97,761	97,750	97,789	97,766	97,832	97,790	97,903	1,023
70	3,35	99,266	99,288	99,277	99,316	99,293	99,359	99,317	99,430	1,023
71	3,35	100,741	100,763	100,752	100,791	100,768	100,834	100,793	100,905	1,022
72	3,35	102,267	102,289	102,278	102,317	102,294	102,360	102,319	102,431	1,022
73	3,35	103,743	103,764	103,754	103,793	103,770	103,836	103,795	103,907	1,021
74	3,35	105,268	105,290	105,280	105,318	105,296	105,361	105,320	105,433	1,021
75	3,35	106,744	106,766	106,756	106,795	106,772	106,838	106,797	106,910	1,021
76	3,35	108,269	108,290	108,281	108,319	108,297	108,363	108,322	108,434	1,021
77	3,35	109,746	109,767	109,758	109,796	109,774	109,840	109,799	109,912	1,020
78	3,35	111,270	111,291	111,282	111,320	111,298	111,364	111,323	111,436	1,020
79	3,35	112,748	112,769	112,759	112,798	112,776	112,841	112,801	112,914	1,020
80	3,35	114,271	114,292	114,283	114,321	114,299	114,365	114,325	114,437	1,020
81	3,35	115,749	115,770	115,761	115,799	115,777	115,843	115,803	115,916	1,019
82	3,35	117,272	117,293	117,284	117,322	117,300	117,366	117,326	117,439	1,019
83	3,35	118,750	118,772	118,762	118,801	118,779	118,845	118,805	118,918	1,019
84	3,35	120,273	120,294	120,285	120,323	120,302	120,367	120,327	120,440	1,019
85	3,35	121,752	121,773	121,764	121,802	121,781	121,846	121,807	121,919	1,018
86	3,35	123,274	123,295	123,286	123,324	123,303	123,368	123,329	123,442	1,018
87	3,35	124,753	124,774	124,765	124,804	124,782	124,848	124,808	124,921	1,018
88	3,35	126,274	126,295	126,287	126,325	126,304	126,369	126,330	126,443	1,018
89	3,35	127,754	127,775	127,767	127,805	127,784	127,849	127,810	127,923	1,017
90	3,35	129,275	129,296	129,287	129,326	129,305	129,370	129,331	129,444	1,017
91	3,35	130,755	130,776	130,768	130,806	130,785	130,851	130,812	130,925	1,017
92	3,35	132,276	132,297	132,288	132,326	132,306	132,371	132,332	132,445	1,017
93	3,35	133,757	133,777	133,769	133,807	133,786	133,852	133,813	133,926	1,016
94	3,35	135,277	135,297	135,289	135,327	135,306	135,372	135,333	135,447	1,016
95	3,35	136,758	136,779	136,770	136,808	136,788	136,853	136,815	136,928	1,016
96	3,35	138,277	138,298	138,290	138,328	138,307	138,373	138,334	138,448	1,016
97	3,35	139,759	139,780	139,771	139,810	139,789	139,855	139,816	139,929	1,016
98	3,35	141,278	141,299	141,291	141,329	141,308	141,374	141,335	141,449	1,016
99	3,35	142,760	142,781	142,773	142,811	142,790	142,856	142,818	142,931	1,015
100	3,35	144,279	144,299	144,291	144,329	144,309	144,375	144,337	144,450	1,015

Table 136 — Inspection dimensions external spline, $\alpha = 45°$, $m = 1{,}5$, $S_{v\,max} = 2{,}356$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	4,75	17,556	17,573	17,539	17,568	17,515	17,561	17,474	17,550	0,817
7	4,50	18,202	18,219	18,186	18,214	18,161	18,207	18,119	18,196	0,814
8	4,25	19,537	19,555	19,520	19,550	19,493	19,542	19,449	19,530	0,852
9	4,25	20,806	20,824	20,788	20,818	20,761	20,811	20,717	20,798	0,848
10	4,00	22,024	22,043	22,005	22,037	21,978	22,029	21,931	22,016	0,877
11	4,00	23,340	23,359	23,322	23,353	23,294	23,345	23,247	23,332	0,875
12	4,00	25,053	25,072	25,033	25,066	25,005	25,057	24,957	25,044	0,890
13	4,00	26,400	26,419	26,381	26,413	26,352	26,404	26,303	26,391	0,889
14	4,00	28,075	28,094	28,055	28,088	28,026	28,079	27,976	28,065	0,901
15	3,75	28,876	28,895	28,855	28,889	28,825	28,880	28,775	28,865	0,908
16	3,75	30,521	30,541	30,500	30,534	30,470	30,525	30,419	30,510	0,917
17	3,75	31,907	31,926	31,886	31,920	31,855	31,910	31,804	31,895	0,916
18	3,75	33,533	33,553	33,512	33,546	33,481	33,537	33,428	33,521	0,924
19	3,75	34,931	34,951	34,910	34,944	34,879	34,935	34,826	34,919	0,923
20	3,75	36,543	36,563	36,522	36,556	36,490	36,546	36,436	36,530	0,929
21	3,75	37,951	37,972	37,930	37,964	37,898	37,954	37,844	37,939	0,929
22	3,75	39,551	39,572	39,530	39,564	39,497	39,554	39,443	39,538	0,934
23	3,75	40,968	40,988	40,946	40,981	40,913	40,971	40,859	40,954	0,935
24	3,75	42,559	42,579	42,536	42,571	42,503	42,561	42,448	42,544	0,939
25	3,75	43,982	44,002	43,960	43,995	43,927	43,984	43,871	43,968	0,939
26	3,75	45,565	45,585	45,542	45,578	45,509	45,567	45,453	45,550	0,943
27	3,55	46,527	46,548	46,505	46,540	46,471	46,529	46,414	46,512	0,947
28	3,55	48,102	48,123	48,080	48,115	48,045	48,104	47,988	48,087	0,951
29	3,55	49,537	49,557	49,514	49,550	49,479	49,538	49,422	49,521	0,951
30	3,55	51,106	51,127	51,083	51,119	51,048	51,108	50,991	51,090	0,953
31	3,55	52,545	52,566	52,522	52,558	52,487	52,546	52,429	52,528	0,953
32	3,55	54,110	54,130	54,086	54,122	54,051	54,111	53,993	54,093	0,956
33	3,55	55,552	55,573	55,529	55,565	55,493	55,553	55,435	55,535	0,956
34	3,55	57,113	57,133	57,089	57,125	57,053	57,113	56,994	57,095	0,958
35	3,55	58,559	58,579	58,535	58,571	58,499	58,559	58,440	58,541	0,958
36	3,55	60,115	60,136	60,091	60,128	60,056	60,116	59,996	60,097	0,960
37	3,55	61,564	61,585	61,540	61,576	61,504	61,564	61,444	61,546	0,960
38	3,55	63,118	63,138	63,094	63,130	63,057	63,118	62,997	63,099	0,962
39	3,55	64,569	64,590	64,545	64,581	64,509	64,569	64,448	64,550	0,962
40	3,55	66,120	66,141	66,096	66,132	66,059	66,120	65,998	66,100	0,964
41	3,55	67,574	67,595	67,549	67,586	67,513	67,573	67,451	67,554	0,964
42	3,55	69,122	69,143	69,097	69,134	69,060	69,121	68,999	69,102	0,965
43	3,55	70,578	70,599	70,553	70,590	70,516	70,577	70,454	70,557	0,965
44	3,55	72,124	72,144	72,099	72,135	72,062	72,123	71,999	72,103	0,967
45	3,55	73,582	73,603	73,557	73,593	73,519	73,581	73,457	73,561	0,967
46	3,55	75,125	75,146	75,100	75,137	75,063	75,124	75,000	75,104	0,968
47	3,55	76,585	76,606	76,560	76,597	76,522	76,584	76,459	76,563	0,968
48	3,55	78,127	78,147	78,102	78,138	78,064	78,125	78,000	78,105	0,969
49	3,55	79,588	79,609	79,563	79,600	79,525	79,586	79,462	79,566	0,969
50	3,55	81,128	81,149	81,103	81,139	81,064	81,126	81,001	81,105	0,970
51	3,55	82,591	82,612	82,566	82,602	82,527	82,589	82,464	82,568	0,970
52	3,55	84,129	84,150	84,104	84,140	84,065	84,127	84,001	84,106	0,971
53	3,55	85,594	85,615	85,568	85,605	85,530	85,591	85,465	85,570	0,971
54	3,55	87,130	87,151	87,105	87,141	87,066	87,128	87,001	87,106	0,972
55	3,55	88,596	88,617	88,570	88,607	88,532	88,593	88,467	88,572	0,972
56	3,55	90,132	90,152	90,106	90,142	90,067	90,128	90,001	90,107	0,973
57	3,55	91,599	91,619	91,573	91,609	91,533	91,595	91,468	91,574	0,973
58	3,55	93,133	93,153	93,106	93,143	93,067	93,129	93,002	93,107	0,974
59	3,55	94,601	94,621	94,574	94,611	94,535	94,597	94,469	94,575	0,974
60	3,55	96,133	96,154	96,107	96,144	96,068	96,130	96,002	96,108	0,975
61	3,55	97,603	97,623	97,576	97,613	97,537	97,599	97,470	97,577	0,975
62	3,55	99,134	99,155	99,108	99,145	99,068	99,130	99,002	99,108	0,976
63	3,55	100,604	100,625	100,578	100,615	100,538	100,600	100,471	100,578	0,976
64	3,55	102,135	102,156	102,108	102,145	102,068	102,131	102,002	102,108	0,976
65	3,55	103,606	103,627	103,579	103,616	103,539	103,602	103,472	103,579	0,976
66	3,55	105,136	105,156	105,109	105,146	105,069	105,131	105,001	105,108	0,977
67	3,55	106,608	106,628	106,581	106,618	106,540	106,603	106,473	106,580	0,977
68	3,55	108,136	108,157	108,109	108,146	108,069	108,131	108,001	108,108	0,978
69	3,55	109,609	109,630	109,582	109,619	109,542	109,604	109,474	109,581	0,978
70	3,55	111,137	111,158	111,110	111,147	111,069	111,132	111,001	111,109	0,978
71	3,55	112,611	112,631	112,583	112,620	112,543	112,605	112,474	112,582	0,978
72	3,55	114,138	114,158	114,110	114,147	114,069	114,132	114,001	114,109	0,979
73	3,55	115,612	115,632	115,585	115,622	115,544	115,606	115,475	115,583	0,979
74	3,55	117,138	117,159	117,111	117,148	117,070	117,132	117,001	117,109	0,979
75	3,55	118,613	118,634	118,586	118,623	118,544	118,607	118,476	118,583	0,979
76	3,55	120,139	120,159	120,111	120,148	120,070	120,133	120,001	120,109	0,980
77	3,55	121,614	121,635	121,587	121,624	121,545	121,608	121,476	121,584	0,980
78	3,55	123,139	123,160	123,111	123,148	123,070	123,133	123,000	123,109	0,980
79	3,55	124,615	124,636	124,588	124,625	124,546	124,609	124,476	124,585	0,980
80	3,55	126,140	126,160	126,112	126,149	126,070	126,133	126,000	126,108	0,981
81	3,55	127,617	127,637	127,589	127,626	127,547	127,610	127,477	127,585	0,981
82	3,55	129,140	129,160	129,112	129,149	129,070	129,133	129,000	129,108	0,981
83	3,55	130,618	130,638	130,589	130,626	130,547	130,610	130,477	130,586	0,981
84	3,55	132,140	132,161	132,112	132,149	132,070	132,133	132,000	132,108	0,982
85	3,55	133,618	133,639	133,590	133,627	133,548	133,611	133,477	133,586	0,982
86	3,55	135,141	135,161	135,113	135,150	135,070	135,133	134,999	135,108	0,982
87	3,55	136,619	136,640	136,591	136,628	136,548	136,612	136,477	136,586	0,982
88	3,55	138,141	138,161	138,113	138,150	138,070	138,133	137,999	138,108	0,982
89	3,55	139,620	139,640	139,592	139,629	139,549	139,612	139,478	139,587	0,982
90	3,55	141,142	141,162	141,113	141,150	141,070	141,133	140,999	141,108	0,983
91	3,55	142,621	142,641	142,592	142,629	142,549	142,613	142,478	142,587	0,983
92	3,55	144,142	144,162	144,113	144,150	144,070	144,133	143,998	144,108	0,983
93	3,55	145,622	145,642	145,593	145,630	145,550	145,613	145,478	145,587	0,983
94	3,55	147,142	147,162	147,113	147,150	147,070	147,133	146,998	147,107	0,983
95	3,55	148,622	148,643	148,594	148,630	148,550	148,614	148,478	148,588	0,984
96	3,55	150,142	150,162	150,113	150,150	150,070	150,133	149,998	150,107	0,984
97	3,55	151,623	151,643	151,594	151,631	151,551	151,614	151,478	151,588	0,984
98	3,55	153,143	153,163	153,114	153,150	153,070	153,133	152,997	153,107	0,984
99	3,55	154,624	154,644	154,595	154,632	154,551	154,614	154,478	154,588	0,984
100	3,55	156,143	156,163	156,114	156,151	156,070	156,133	155,997	156,107	0,984

5.35 45° pressure angle, module 1,75

Table 137 — Geometry internal spline, $\alpha = 45°$, $m = 1{,}75$, fillet root, $E_{v\,min} = 2{,}749$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	10,50	7,4246	12,74	12,25	9,27	2,784	2,805	2,837	2,890
7	12,25	8,6621	14,49	14,00	10,99	2,785	2,806	2,839	2,892
8	14,00	9,8995	16,25	15,75	12,72	2,785	2,807	2,840	2,894
9	15,75	11,1369	18,00	17,50	14,46	2,786	2,808	2,841	2,896
10	17,50	12,3744	19,75	19,25	16,20	2,786	2,808	2,842	2,898
11	19,25	13,6118	21,50	21,00	17,94	2,787	2,809	2,843	2,899
12	21,00	14,8492	23,25	22,75	19,68	2,787	2,810	2,844	2,901
13	22,75	16,0867	25,00	24,50	21,42	2,787	2,810	2,845	2,902
14	24,50	17,3241	26,75	26,25	23,17	2,788	2,811	2,846	2,904
15	26,25	18,5616	28,51	28,00	24,91	2,788	2,811	2,846	2,905
16	28,00	19,7990	30,26	29,75	26,66	2,788	2,812	2,847	2,906
17	29,75	21,0364	32,01	31,50	28,40	2,789	2,812	2,848	2,907
18	31,50	22,2739	33,76	33,25	30,15	2,789	2,813	2,849	2,908
19	33,25	23,5113	35,51	35,00	31,90	2,789	2,813	2,849	2,910
20	35,00	24,7487	37,26	36,75	33,65	2,789	2,814	2,850	2,911
21	36,75	25,9862	39,01	38,50	35,39	2,790	2,814	2,851	2,912
22	38,50	27,2236	40,76	40,25	37,14	2,790	2,814	2,851	2,913
23	40,25	28,4610	42,51	42,00	38,89	2,790	2,815	2,852	2,914
24	42,00	29,6985	44,27	43,75	40,64	2,790	2,815	2,852	2,915
25	43,75	30,9359	46,02	45,50	42,39	2,791	2,816	2,853	2,915
26	45,50	32,1734	47,77	47,25	44,13	2,791	2,816	2,854	2,916
27	47,25	33,4108	49,52	49,00	45,88	2,791	2,816	2,854	2,917
28	49,00	34,6482	51,27	50,75	47,63	2,791	2,817	2,855	2,918
29	50,75	35,8857	53,02	52,50	49,38	2,791	2,817	2,855	2,919
30	52,50	37,1231	54,77	54,25	51,13	2,792	2,817	2,856	2,920
31	54,25	38,3605	56,52	56,00	52,88	2,792	2,818	2,856	2,921
32	56,00	39,5980	58,27	57,75	54,63	2,792	2,818	2,857	2,921
33	57,75	40,8354	60,02	59,50	56,38	2,792	2,818	2,857	2,922
34	59,50	42,0729	61,77	61,25	58,13	2,792	2,819	2,858	2,923
35	61,25	43,3103	63,52	63,00	59,88	2,793	2,819	2,858	2,924
36	63,00	44,5477	65,28	64,75	61,62	2,793	2,819	2,859	2,924
37	64,75	45,7852	67,03	66,50	63,37	2,793	2,819	2,859	2,925
38	66,50	47,0226	68,78	68,25	65,12	2,793	2,820	2,860	2,926
39	68,25	48,2600	70,53	70,00	66,87	2,793	2,820	2,860	2,927
40	70,00	49,4975	72,28	71,75	68,62	2,794	2,820	2,860	2,927
41	71,75	50,7349	74,03	73,50	70,37	2,794	2,821	2,861	2,928
42	73,50	51,9723	75,78	75,25	72,12	2,794	2,821	2,861	2,929
43	75,25	53,2098	77,53	77,00	73,87	2,794	2,821	2,862	2,929
44	77,00	54,4472	79,28	78,75	75,62	2,794	2,821	2,862	2,930
45	78,75	55,6847	81,03	80,50	77,37	2,794	2,822	2,863	2,931
46	80,50	56,9221	82,78	82,25	79,12	2,795	2,822	2,863	2,931
47	82,25	58,1595	84,53	84,00	80,87	2,795	2,822	2,863	2,932
48	84,00	59,3970	86,28	85,75	82,62	2,795	2,822	2,864	2,932
49	85,75	60,6344	88,03	87,50	84,37	2,795	2,823	2,864	2,933
50	87,50	61,8718	89,78	89,25	86,12	2,795	2,823	2,864	2,934
51	89,25	63,1093	91,54	91,00	87,87	2,795	2,823	2,865	2,934
52	91,00	64,3467	93,29	92,75	89,62	2,795	2,823	2,865	2,935
53	92,75	65,5842	95,04	94,50	91,37	2,796	2,824	2,866	2,935
54	94,50	66,8216	96,79	96,25	93,12	2,796	2,824	2,866	2,936
55	96,25	68,0590	98,54	98,00	94,87	2,796	2,824	2,866	2,937
56	98,00	69,2965	100,29	99,75	96,62	2,796	2,824	2,867	2,937
57	99,75	70,5339	102,04	101,50	98,37	2,796	2,825	2,867	2,938
58	101,50	71,7713	103,79	103,25	100,12	2,796	2,825	2,867	2,938
59	103,25	73,0088	105,54	105,00	101,87	2,796	2,825	2,868	2,939
60	105,00	74,2462	107,29	106,75	103,61	2,797	2,825	2,868	2,939
61	106,75	75,4836	109,04	108,50	105,36	2,797	2,825	2,868	2,940
62	108,50	76,7211	110,79	110,25	107,11	2,797	2,826	2,869	2,940
63	110,25	77,9585	112,54	112,00	108,86	2,797	2,826	2,869	2,941
64	112,00	79,1960	114,29	113,75	110,61	2,797	2,826	2,869	2,942
65	113,75	80,4334	116,04	115,50	112,36	2,797	2,826	2,870	2,942
66	115,50	81,6708	117,79	117,25	114,11	2,797	2,826	2,870	2,943
67	117,25	82,9083	119,54	119,00	115,86	2,798	2,827	2,870	2,943
68	119,00	84,1457	121,29	120,75	117,61	2,798	2,827	2,871	2,944
69	120,75	85,3831	123,05	122,50	119,36	2,798	2,827	2,871	2,944
70	122,50	86,6206	124,80	124,25	121,11	2,798	2,827	2,871	2,945
71	124,25	87,8580	126,55	126,00	122,86	2,798	2,827	2,872	2,945
72	126,00	89,0955	128,30	127,75	124,61	2,798	2,828	2,872	2,946
73	127,75	90,3329	130,05	129,50	126,36	2,798	2,828	2,872	2,946
74	129,50	91,5703	131,80	131,25	128,11	2,798	2,828	2,872	2,947
75	131,25	92,8078	133,55	133,00	129,86	2,799	2,828	2,873	2,947
76	133,00	94,0452	135,30	134,75	131,61	2,799	2,828	2,873	2,948
77	134,75	95,2826	137,05	136,50	133,36	2,799	2,829	2,873	2,948
78	136,50	96,5201	138,80	138,25	135,11	2,799	2,829	2,874	2,948
79	138,25	97,7575	140,55	140,00	136,86	2,799	2,829	2,874	2,949
80	140,00	98,9949	142,30	141,75	138,61	2,799	2,829	2,874	2,949
81	141,75	100,2324	144,05	143,50	140,36	2,799	2,829	2,875	2,950
82	143,50	101,4698	145,80	145,25	142,11	2,799	2,830	2,875	2,950
83	145,25	102,7073	147,55	147,00	143,86	2,799	2,830	2,875	2,951
84	147,00	103,9447	149,30	148,75	145,61	2,800	2,830	2,875	2,951
85	148,75	105,1821	151,05	150,50	147,36	2,800	2,830	2,876	2,952
86	150,50	106,4196	152,80	152,25	149,11	2,800	2,830	2,876	2,952
87	152,25	107,6570	154,55	154,00	150,86	2,800	2,830	2,876	2,953
88	154,00	108,8944	156,30	155,75	152,61	2,800	2,831	2,876	2,953
89	155,75	110,1319	158,05	157,50	154,36	2,800	2,831	2,877	2,953
90	157,50	111,3693	159,80	159,25	156,11	2,800	2,831	2,877	2,954
91	159,25	112,6068	161,56	161,00	157,86	2,800	2,831	2,877	2,954
92	161,00	113,8442	163,31	162,75	159,61	2,800	2,831	2,878	2,955
93	162,75	115,0816	165,06	164,50	161,36	2,801	2,831	2,878	2,955
94	164,50	116,3191	166,81	166,25	163,11	2,801	2,832	2,878	2,956
95	166,25	117,5565	168,56	168,00	164,86	2,801	2,832	2,878	2,956
96	168,00	118,7939	170,31	169,75	166,61	2,801	2,832	2,879	2,956
97	169,75	120,0314	172,06	171,50	168,36	2,801	2,832	2,879	2,957
98	171,50	121,2688	173,81	173,25	170,11	2,801	2,832	2,879	2,957
99	173,25	122,5062	175,56	175,00	171,86	2,801	2,832	2,879	2,958
100	175,00	123,7437	177,31	176,75	173,61	2,801	2,833	2,880	2,958

Table 138 — Geometry external spline, $\alpha = 45°$, $m = 1{,}75$, fillet root, $S_{v\,max} = 2{,}749$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	10,50	7,4246	11,90	8,92	8,26	2,714	2,693	2,661	2,608
7	12,25	8,6621	13,65	10,64	10,01	2,713	2,692	2,659	2,606
8	14,00	9,8995	15,40	12,37	11,75	2,713	2,691	2,658	2,604
9	15,75	11,1369	17,15	14,11	13,50	2,712	2,690	2,657	2,602
10	17,50	12,3744	18,90	15,85	15,25	2,712	2,690	2,656	2,600
11	19,25	13,6118	20,65	17,59	17,00	2,711	2,689	2,655	2,599
12	21,00	14,8492	22,40	19,33	18,75	2,711	2,688	2,654	2,597
13	22,75	16,0867	24,15	21,07	20,50	2,711	2,688	2,653	2,596
14	24,50	17,3241	25,90	22,82	22,25	2,710	2,687	2,652	2,594
15	26,25	18,5616	27,65	24,56	23,99	2,710	2,687	2,652	2,593
16	28,00	19,7990	29,40	26,31	25,74	2,710	2,686	2,651	2,592
17	29,75	21,0364	31,15	28,05	27,49	2,709	2,686	2,650	2,591
18	31,50	22,2739	32,90	29,80	29,24	2,709	2,685	2,649	2,590
19	33,25	23,5113	34,65	31,55	30,99	2,709	2,685	2,649	2,588
20	35,00	24,7487	36,40	33,30	32,74	2,709	2,684	2,648	2,587
21	36,75	25,9862	38,15	35,04	34,49	2,708	2,684	2,647	2,586
22	38,50	27,2236	39,90	36,79	36,24	2,708	2,684	2,647	2,585
23	40,25	28,4610	41,65	38,54	37,99	2,708	2,683	2,646	2,584
24	42,00	29,6985	43,40	40,29	39,73	2,708	2,683	2,646	2,583
25	43,75	30,9359	45,15	42,04	41,48	2,707	2,682	2,645	2,583
26	45,50	32,1734	46,90	43,78	43,23	2,707	2,682	2,644	2,582
27	47,25	33,4108	48,65	45,53	44,98	2,707	2,682	2,644	2,581
28	49,00	34,6482	50,40	47,28	46,73	2,707	2,681	2,643	2,580
29	50,75	35,8857	52,15	49,03	48,48	2,707	2,681	2,643	2,579
30	52,50	37,1231	53,90	50,78	50,23	2,706	2,681	2,642	2,578
31	54,25	38,3605	55,65	52,53	51,98	2,706	2,680	2,642	2,577
32	56,00	39,5980	57,40	54,28	53,73	2,706	2,680	2,641	2,577
33	57,75	40,8354	59,15	56,03	55,48	2,706	2,680	2,641	2,576
34	59,50	42,0729	60,90	57,78	57,23	2,706	2,679	2,640	2,575
35	61,25	43,3103	62,65	59,53	58,98	2,705	2,679	2,640	2,574
36	63,00	44,5477	64,40	61,27	60,72	2,705	2,679	2,639	2,574
37	64,75	45,7852	66,15	63,02	62,47	2,705	2,679	2,639	2,573
38	66,50	47,0226	67,90	64,77	64,22	2,705	2,678	2,638	2,572
39	68,25	48,2600	69,65	66,52	65,97	2,705	2,678	2,638	2,571
40	70,00	49,4975	71,40	68,27	67,72	2,704	2,678	2,638	2,571
41	71,75	50,7349	73,15	70,02	69,47	2,704	2,677	2,637	2,570
42	73,50	51,9723	74,90	71,77	71,22	2,704	2,677	2,637	2,569
43	75,25	53,2098	76,65	73,52	72,97	2,704	2,677	2,636	2,569
44	77,00	54,4472	78,40	75,27	74,72	2,704	2,677	2,636	2,568
45	78,75	55,6847	80,15	77,02	76,47	2,704	2,676	2,635	2,567
46	80,50	56,9221	81,90	78,77	78,22	2,703	2,676	2,635	2,567
47	82,25	58,1595	83,65	80,52	79,97	2,703	2,676	2,635	2,566
48	84,00	59,3970	85,40	82,27	81,72	2,703	2,676	2,634	2,566
49	85,75	60,6344	87,15	84,02	83,47	2,703	2,675	2,634	2,565
50	87,50	61,8718	88,90	85,77	85,22	2,703	2,675	2,634	2,564
51	89,25	63,1093	90,65	87,52	86,96	2,703	2,675	2,633	2,564
52	91,00	64,3467	92,40	89,27	88,71	2,703	2,675	2,633	2,563
53	92,75	65,5842	94,15	91,02	90,46	2,702	2,674	2,632	2,563
54	94,50	66,8216	95,90	92,77	92,21	2,702	2,674	2,632	2,562
55	96,25	68,0590	97,65	94,52	93,96	2,702	2,674	2,632	2,561
56	98,00	69,2965	99,40	96,27	95,71	2,702	2,674	2,631	2,561
57	99,75	70,5339	101,15	98,02	97,46	2,702	2,673	2,631	2,560
58	101,50	71,7713	102,90	99,77	99,21	2,702	2,673	2,631	2,560
59	103,25	73,0088	104,65	101,52	100,96	2,702	2,673	2,630	2,559
60	105,00	74,2462	106,40	103,26	102,71	2,701	2,673	2,630	2,559
61	106,75	75,4836	108,15	105,01	104,46	2,701	2,673	2,630	2,558
62	108,50	76,7211	109,90	106,76	106,21	2,701	2,672	2,629	2,558
63	110,25	77,9585	111,65	108,51	107,96	2,701	2,672	2,629	2,557
64	112,00	79,1960	113,40	110,26	109,71	2,701	2,672	2,629	2,556
65	113,75	80,4334	115,15	112,01	111,46	2,701	2,672	2,628	2,556
66	115,50	81,6708	116,90	113,76	113,21	2,701	2,672	2,628	2,555
67	117,25	82,9083	118,65	115,51	114,96	2,700	2,671	2,628	2,555
68	119,00	84,1457	120,40	117,26	116,71	2,700	2,671	2,627	2,554
69	120,75	85,3831	122,15	119,01	118,45	2,700	2,671	2,627	2,554
70	122,50	86,6206	123,90	120,76	120,20	2,700	2,671	2,627	2,553
71	124,25	87,8580	125,65	122,51	121,95	2,700	2,671	2,626	2,553
72	126,00	89,0955	127,40	124,26	123,70	2,700	2,670	2,626	2,552
73	127,75	90,3329	129,15	126,01	125,45	2,700	2,670	2,626	2,552
74	129,50	91,5703	130,90	127,76	127,20	2,700	2,670	2,626	2,551
75	131,25	92,8078	132,65	129,51	128,95	2,699	2,670	2,625	2,551
76	133,00	94,0452	134,40	131,26	130,70	2,699	2,670	2,625	2,550
77	134,75	95,2826	136,15	133,01	132,45	2,699	2,669	2,625	2,550
78	136,50	96,5201	137,90	134,76	134,20	2,699	2,669	2,624	2,550
79	138,25	97,7575	139,65	136,51	135,95	2,699	2,669	2,624	2,549
80	140,00	98,9949	141,40	138,26	137,70	2,699	2,669	2,624	2,549
81	141,75	100,2324	143,15	140,01	139,45	2,699	2,669	2,623	2,548
82	143,50	101,4698	144,90	141,76	141,20	2,699	2,668	2,623	2,548
83	145,25	102,7073	146,65	143,51	142,95	2,699	2,668	2,623	2,547
84	147,00	103,9447	148,40	145,26	144,70	2,698	2,668	2,623	2,547
85	148,75	105,1821	150,15	147,01	146,45	2,698	2,668	2,622	2,546
86	150,50	106,4196	151,90	148,76	148,20	2,698	2,668	2,622	2,546
87	152,25	107,6570	153,65	150,51	149,95	2,698	2,668	2,622	2,545
88	154,00	108,8944	155,40	152,26	151,70	2,698	2,667	2,622	2,545
89	155,75	110,1319	157,15	154,01	153,45	2,698	2,667	2,621	2,545
90	157,50	111,3693	158,90	155,76	155,20	2,698	2,667	2,621	2,544
91	159,25	112,6068	160,65	157,51	156,94	2,698	2,667	2,621	2,544
92	161,00	113,8442	162,40	159,26	158,69	2,698	2,667	2,620	2,543
93	162,75	115,0816	164,15	161,01	160,44	2,697	2,667	2,620	2,543
94	164,50	116,3191	165,90	162,76	162,19	2,697	2,666	2,620	2,542
95	166,25	117,5565	167,65	164,51	163,94	2,697	2,666	2,620	2,542
96	168,00	118,7939	169,40	166,26	165,69	2,697	2,666	2,619	2,542
97	169,75	120,0314	171,15	168,01	167,44	2,697	2,666	2,619	2,541
98	171,50	121,2688	172,90	169,76	169,19	2,697	2,666	2,619	2,541
99	173,25	122,5062	174,65	171,51	170,94	2,697	2,666	2,619	2,540
100	175,00	123,7437	176,40	173,26	172,69	2,697	2,665	2,618	2,540

Table 139 — Inspection dimensions internal spline, $\alpha = 45°$, $m = 1{,}75$, $E_{v\,min} = 2{,}749$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	3,15	5,418	5,449	5,426	5,479	5,439	5,522	5,460	5,594	1,339
7	3,35	6,395	6,425	6,403	6,455	6,416	6,498	6,436	6,569	1,314
8	3,35	8,455	8,485	8,464	8,513	8,476	8,554	8,495	8,623	1,257
9	3,35	10,037	10,064	10,045	10,091	10,057	10,131	10,075	10,197	1,186
10	3,55	11,476	11,504	11,484	11,532	11,496	11,573	11,516	11,641	1,219
11	3,55	13,084	13,111	13,093	13,138	13,104	13,178	13,123	13,244	1,172
12	3,55	15,028	15,055	15,036	15,081	15,048	15,121	15,067	15,187	1,159
13	3,55	16,647	16,673	16,655	16,700	16,667	16,739	16,686	16,804	1,132
14	3,55	18,560	18,586	18,568	18,612	18,580	18,651	18,599	18,717	1,126
15	3,55	20,191	20,216	20,199	20,243	20,211	20,282	20,230	20,346	1,107
16	3,75	21,564	21,590	21,572	21,616	21,584	21,656	21,604	21,723	1,124
17	3,75	23,210	23,235	23,218	23,262	23,230	23,302	23,250	23,367	1,109
18	3,75	25,085	25,111	25,094	25,137	25,106	25,177	25,125	25,243	1,105
19	3,75	26,739	26,765	26,748	26,791	26,760	26,831	26,779	26,897	1,093
20	3,75	28,601	28,627	28,610	28,653	28,622	28,693	28,642	28,759	1,091
21	3,75	30,263	30,288	30,272	30,314	30,284	30,354	30,303	30,420	1,082
22	3,75	32,114	32,139	32,123	32,166	32,135	32,206	32,155	32,272	1,080
23	3,75	33,782	33,807	33,791	33,833	33,803	33,873	33,823	33,939	1,073
24	3,75	35,624	35,649	35,633	35,676	35,646	35,716	35,666	35,782	1,071
25	3,75	37,298	37,322	37,307	37,349	37,319	37,389	37,339	37,456	1,066
26	3,75	39,133	39,157	39,142	39,184	39,155	39,224	39,175	39,291	1,064
27	3,75	40,811	40,836	40,820	40,862	40,833	40,903	40,853	40,970	1,060
28	3,75	42,640	42,664	42,649	42,691	42,662	42,732	42,683	42,799	1,059
29	3,75	44,323	44,347	44,332	44,374	44,345	44,414	44,366	44,482	1,055
30	3,75	46,146	46,170	46,156	46,198	46,169	46,238	46,190	46,306	1,054
31	3,75	47,833	47,857	47,842	47,884	47,855	47,925	47,876	47,992	1,051
32	3,75	49,652	49,676	49,661	49,703	49,674	49,744	49,695	49,812	1,050
33	3,75	51,342	51,365	51,351	51,393	51,365	51,434	51,386	51,502	1,047
34	3,75	53,156	53,180	53,166	53,208	53,179	53,249	53,201	53,317	1,047
35	3,75	54,849	54,873	54,859	54,901	54,873	54,942	54,894	55,010	1,044
36	3,75	56,660	56,684	56,670	56,712	56,684	56,753	56,705	56,822	1,044
37	3,75	58,356	58,380	58,366	58,408	58,380	58,449	58,402	58,518	1,041
38	3,75	60,164	60,188	60,174	60,215	60,188	60,257	60,210	60,326	1,041
39	3,75	61,863	61,886	61,872	61,914	61,887	61,955	61,908	62,025	1,039
40	3,75	63,667	63,691	63,677	63,719	63,692	63,761	63,714	63,830	1,039
41	3,75	65,368	65,392	65,378	65,420	65,393	65,461	65,415	65,531	1,037
42	3,75	67,170	67,194	67,181	67,222	67,195	67,264	67,217	67,334	1,036
43	4,00	68,255	68,279	68,266	68,307	68,280	68,349	68,303	68,420	1,041
44	4,00	70,055	70,079	70,066	70,107	70,080	70,150	70,103	70,220	1,040
45	4,00	71,761	71,784	71,771	71,813	71,786	71,855	71,809	71,926	1,039
46	4,00	73,559	73,582	73,569	73,610	73,584	73,653	73,607	73,724	1,038
47	4,00	75,266	75,289	75,276	75,318	75,291	75,360	75,314	75,432	1,037
48	4,00	77,062	77,085	77,072	77,113	77,087	77,156	77,110	77,228	1,037
49	4,00	78,770	78,794	78,781	78,822	78,796	78,865	78,819	78,937	1,035
50	4,00	80,564	80,587	80,575	80,616	80,590	80,659	80,614	80,731	1,035
51	4,00	82,275	82,298	82,285	82,327	82,301	82,370	82,324	82,442	1,034
52	4,00	84,067	84,090	84,078	84,119	84,093	84,162	84,117	84,234	1,033
53	4,00	85,778	85,802	85,789	85,831	85,805	85,874	85,829	85,946	1,032
54	4,00	87,569	87,592	87,580	87,621	87,596	87,665	87,620	87,737	1,032
55	4,00	89,282	89,305	89,293	89,334	89,309	89,378	89,333	89,450	1,031
56	4,00	91,071	91,094	91,082	91,123	91,098	91,167	91,122	91,240	1,031
57	4,00	92,785	92,808	92,797	92,838	92,812	92,881	92,837	92,954	1,030
58	4,00	94,573	94,596	94,584	94,625	94,600	94,669	94,625	94,742	1,030
59	4,00	96,289	96,312	96,300	96,341	96,316	96,385	96,340	96,458	1,029
60	4,00	98,075	98,098	98,087	98,127	98,103	98,172	98,127	98,245	1,028
61	4,00	99,792	99,814	99,803	99,844	99,819	99,888	99,844	99,962	1,028
62	4,00	101,577	101,600	101,588	101,629	101,605	101,674	101,630	101,747	1,027
63	4,00	103,294	103,317	103,306	103,347	103,322	103,391	103,347	103,465	1,027
64	4,00	105,079	105,101	105,090	105,131	105,107	105,176	105,132	105,250	1,027
65	4,00	106,797	106,820	106,809	106,849	106,825	106,894	106,850	106,968	1,026
66	4,00	108,580	108,603	108,592	108,633	108,608	108,677	108,634	108,752	1,026
67	4,00	110,300	110,322	110,311	110,352	110,328	110,397	110,353	110,471	1,025
68	4,00	112,082	112,104	112,094	112,134	112,110	112,179	112,136	112,254	1,025
69	4,00	113,802	113,824	113,814	113,854	113,831	113,899	113,856	113,974	1,024
70	4,00	115,583	115,606	115,595	115,636	115,612	115,681	115,638	115,756	1,024
71	4,00	117,304	117,327	117,316	117,357	117,333	117,402	117,359	117,477	1,023
72	4,00	119,084	119,107	119,097	119,137	119,114	119,182	119,140	119,258	1,023
73	4,00	120,806	120,829	120,818	120,859	120,835	120,904	120,862	120,980	1,023
74	4,00	122,586	122,608	122,598	122,638	122,615	122,684	122,641	122,760	1,023
75	4,00	124,308	124,331	124,320	124,361	124,338	124,407	124,364	124,482	1,022
76	4,00	126,087	126,109	126,099	126,140	126,117	126,185	126,143	126,262	1,022
77	4,00	127,810	127,832	127,823	127,863	127,840	127,909	127,867	127,985	1,021
78	4,00	129,588	129,610	129,601	129,641	129,618	129,687	129,645	129,763	1,021
79	4,00	131,312	131,334	131,324	131,365	131,342	131,411	131,369	131,487	1,021
80	4,00	133,089	133,111	133,102	133,142	133,119	133,188	133,146	133,265	1,021
81	4,00	134,814	134,836	134,826	134,867	134,844	134,913	134,871	134,990	1,020
82	4,00	136,590	136,613	136,603	136,643	136,621	136,690	136,648	136,767	1,020
83	4,00	138,315	138,338	138,328	138,368	138,346	138,415	138,373	138,492	1,020
84	4,00	140,091	140,113	140,104	140,144	140,122	140,191	140,150	140,268	1,020
85	4,00	141,817	141,839	141,830	141,870	141,848	141,917	141,875	141,994	1,019
86	4,00	143,592	143,614	143,605	143,645	143,623	143,692	143,651	143,770	1,019
87	4,00	145,319	145,341	145,331	145,372	145,350	145,418	145,377	145,496	1,019
88	4,00	147,093	147,115	147,106	147,147	147,125	147,193	147,152	147,271	1,019
89	4,00	148,820	148,842	148,833	148,873	148,851	148,920	148,879	148,998	1,018
90	4,00	150,594	150,616	150,607	150,647	150,626	150,694	150,654	150,773	1,018
91	4,00	152,321	152,343	152,335	152,375	152,353	152,422	152,381	152,500	1,018
92	4,00	154,095	154,117	154,108	154,148	154,127	154,196	154,155	154,274	1,018
93	4,00	155,823	155,845	155,836	155,876	155,855	155,923	155,883	156,002	1,017
94	4,00	157,596	157,618	157,609	157,649	157,628	157,697	157,657	157,775	1,017
95	4,00	159,324	159,346	159,337	159,377	159,356	159,425	159,385	159,504	1,017
96	4,00	161,097	161,119	161,110	161,150	161,129	161,198	161,158	161,277	1,017
97	4,00	162,825	162,847	162,839	162,879	162,858	162,926	162,887	163,006	1,017
98	4,00	164,598	164,619	164,611	164,651	164,630	164,699	164,659	164,778	1,017
99	4,00	166,327	166,348	166,340	166,380	166,359	166,428	166,388	166,507	1,016
100	4,00	168,098	168,120	168,112	168,152	168,131	168,200	168,160	168,279	1,016

Table 140 — Inspection dimensions external spline, $\alpha = 45°$, $m = 1{,}75$, $S_{v\,max} = 2{,}749$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	5,60	20,610	20,629	20,593	20,623	20,567	20,616	20,524	20,604	0,815
7	5,30	21,347	21,365	21,329	21,360	21,303	21,352	21,259	21,340	0,812
8	5,00	22,889	22,908	22,870	22,902	22,842	22,894	22,796	22,881	0,851
9	5,00	24,368	24,387	24,350	24,382	24,322	24,374	24,275	24,361	0,847
10	4,75	25,884	25,904	25,865	25,898	25,836	25,890	25,787	25,876	0,874
11	4,75	27,420	27,440	27,400	27,434	27,371	27,425	27,322	27,411	0,872
12	4,75	29,420	29,440	29,399	29,433	29,369	29,425	29,319	29,410	0,888
13	4,50	30,427	30,448	30,407	30,441	30,376	30,432	30,325	30,418	0,893
14	4,50	32,379	32,400	32,358	32,393	32,327	32,384	32,274	32,369	0,905
15	4,50	33,977	33,997	33,956	33,991	33,924	33,981	33,871	33,966	0,904
16	4,50	35,898	35,919	35,876	35,912	35,844	35,902	35,790	35,887	0,913
17	4,50	37,515	37,535	37,493	37,528	37,460	37,519	37,406	37,503	0,913
18	4,50	39,413	39,434	39,391	39,427	39,358	39,417	39,303	39,401	0,920
19	4,25	40,469	40,490	40,447	40,483	40,413	40,473	40,358	40,457	0,926
20	4,25	42,348	42,370	42,326	42,362	42,292	42,352	42,235	42,335	0,932
21	4,25	43,992	44,013	43,969	44,005	43,935	43,995	43,878	43,978	0,932
22	4,25	45,857	45,879	45,834	45,871	45,800	45,860	45,742	45,843	0,937
23	4,25	47,510	47,532	47,487	47,524	47,452	47,513	47,395	47,496	0,937
24	4,25	49,365	49,386	49,342	49,379	49,307	49,368	49,248	49,350	0,941
25	4,25	51,026	51,047	51,002	51,039	50,967	51,028	50,908	51,011	0,941
26	4,25	52,871	52,893	52,848	52,885	52,812	52,874	52,753	52,856	0,945
27	4,25	54,539	54,561	54,515	54,553	54,480	54,541	54,420	54,523	0,945
28	4,25	56,377	56,399	56,353	56,391	56,317	56,379	56,257	56,361	0,948
29	4,25	58,051	58,072	58,027	58,064	57,990	58,052	57,930	58,034	0,948
30	4,25	59,882	59,904	59,858	59,895	59,821	59,884	59,760	59,865	0,951
31	4,25	61,561	61,582	61,536	61,574	61,500	61,562	61,439	61,543	0,951
32	4,25	63,387	63,408	63,362	63,400	63,325	63,388	63,263	63,369	0,954
33	4,25	65,070	65,091	65,045	65,083	65,008	65,071	64,946	65,051	0,954
34	4,25	66,891	66,912	66,866	66,904	66,828	66,891	66,766	66,872	0,956
35	4,25	68,578	68,599	68,552	68,590	68,515	68,578	68,452	68,558	0,956
36	4,25	70,394	70,416	70,369	70,407	70,331	70,394	70,268	70,375	0,958
37	4,25	72,085	72,106	72,059	72,097	72,021	72,085	71,958	72,065	0,958
38	4,25	73,897	73,919	73,872	73,910	73,834	73,897	73,770	73,877	0,960
39	4,25	75,591	75,612	75,565	75,603	75,527	75,590	75,463	75,570	0,960
40	4,25	77,400	77,422	77,374	77,413	77,336	77,399	77,272	77,379	0,962
41	4,25	79,096	79,118	79,071	79,109	79,032	79,096	78,967	79,075	0,962
42	4,25	80,903	80,924	80,877	80,915	80,838	80,902	80,773	80,881	0,963
43	4,25	82,602	82,623	82,575	82,614	82,536	82,600	82,471	82,580	0,964
44	4,25	84,405	84,427	84,379	84,417	84,340	84,404	84,274	84,383	0,965
45	4,25	86,106	86,128	86,080	86,118	86,041	86,105	85,975	86,084	0,965
46	4,25	87,907	87,929	87,881	87,919	87,841	87,905	87,775	87,884	0,966
47	4,25	89,610	89,632	89,584	89,622	89,544	89,609	89,478	89,587	0,966
48	4,25	91,409	91,431	91,382	91,421	91,343	91,407	91,276	91,385	0,967
49	4,25	93,114	93,136	93,088	93,126	93,048	93,112	92,981	93,090	0,968
50	4,25	94,911	94,933	94,884	94,923	94,844	94,908	94,777	94,886	0,969
51	4,25	96,618	96,640	96,591	96,629	96,551	96,615	96,483	96,593	0,969
52	4,25	98,413	98,434	98,385	98,424	98,345	98,410	98,277	98,387	0,970
53	4,25	100,121	100,143	100,094	100,133	100,053	100,118	99,986	100,096	0,970
54	4,25	101,914	101,936	101,887	101,925	101,846	101,911	101,778	101,888	0,971
55	4,25	103,624	103,646	103,597	103,635	103,556	103,621	103,488	103,598	0,971
56	4,25	105,415	105,437	105,388	105,427	105,347	105,412	105,278	105,389	0,972
57	4,00	106,533	106,555	106,506	106,544	106,464	106,530	106,395	106,507	0,975
58	4,00	108,323	108,344	108,295	108,334	108,254	108,319	108,184	108,296	0,975
59	4,00	110,036	110,057	110,008	110,047	109,966	110,032	109,897	110,008	0,976
60	4,00	111,824	111,845	111,796	111,835	111,754	111,819	111,684	111,796	0,976
61	4,00	113,538	113,559	113,510	113,549	113,468	113,533	113,398	113,510	0,976
62	4,00	115,325	115,346	115,297	115,335	115,254	115,320	115,184	115,296	0,977
63	4,00	117,040	117,061	117,012	117,050	116,970	117,035	116,899	117,011	0,977
64	4,00	118,825	118,847	118,797	118,836	118,755	118,820	118,684	118,796	0,978
65	4,00	120,542	120,563	120,513	120,552	120,471	120,537	120,400	120,512	0,978
66	4,00	122,326	122,348	122,298	122,336	122,255	122,321	122,184	122,297	0,978
67	4,00	124,043	124,065	124,015	124,054	123,972	124,038	123,901	124,014	0,978
68	4,00	125,827	125,848	125,798	125,837	125,755	125,821	125,684	125,797	0,979
69	4,00	127,545	127,567	127,516	127,555	127,474	127,539	127,402	127,515	0,979
70	4,00	129,327	129,349	129,299	129,337	129,256	129,321	129,184	129,297	0,979
71	4,00	131,047	131,068	131,018	131,057	130,975	131,040	130,903	131,016	0,979
72	4,00	132,828	132,849	132,799	132,838	132,756	132,822	132,684	132,797	0,980
73	4,00	134,548	134,569	134,519	134,558	134,476	134,542	134,403	134,516	0,980
74	4,00	136,329	136,350	136,300	136,338	136,256	136,322	136,183	136,297	0,980
75	4,00	138,049	138,071	138,020	138,059	137,977	138,043	137,904	138,017	0,981
76	4,00	139,829	139,850	139,800	139,839	139,756	139,822	139,683	139,797	0,981
77	4,00	141,551	141,572	141,521	141,560	141,478	141,544	141,404	141,518	0,981
78	4,00	143,330	143,351	143,300	143,339	143,256	143,322	143,183	143,297	0,981
79	4,00	145,052	145,073	145,022	145,061	144,978	145,044	144,905	145,019	0,981
80	4,00	146,830	146,851	146,801	146,839	146,756	146,822	146,683	146,796	0,982
81	4,00	148,553	148,574	148,523	148,562	148,479	148,545	148,405	148,519	0,982
82	4,00	150,330	150,352	150,301	150,340	150,256	150,322	150,182	150,296	0,982
83	4,00	152,054	152,075	152,024	152,063	151,980	152,046	151,906	152,020	0,982
84	4,00	153,831	153,852	153,801	153,840	153,756	153,823	153,682	153,796	0,983
85	4,00	155,555	155,576	155,525	155,564	155,481	155,547	155,406	155,520	0,983
86	4,00	157,331	157,352	157,301	157,340	157,256	157,323	157,182	157,296	0,983
87	4,00	159,056	159,077	159,026	159,065	158,981	159,047	158,906	159,021	0,983
88	4,00	160,832	160,853	160,802	160,840	160,756	160,823	160,681	160,796	0,983
89	4,00	162,557	162,578	162,527	162,566	162,482	162,548	162,406	162,521	0,983
90	4,00	164,332	164,353	164,302	164,340	164,256	164,323	164,181	164,296	0,984
91	4,00	166,058	166,079	166,028	166,066	165,982	166,049	165,907	166,021	0,984
92	4,00	167,832	167,853	167,802	167,841	167,756	167,823	167,680	167,795	0,984
93	4,00	169,559	169,580	169,528	169,567	169,483	169,549	169,407	169,522	0,984
94	4,00	171,332	171,353	171,302	171,341	171,256	171,323	171,180	171,295	0,984
95	4,00	173,060	173,080	173,029	173,068	172,983	173,050	172,907	173,022	0,984
96	4,00	174,833	174,854	174,802	174,841	174,756	174,823	174,680	174,795	0,985
97	4,00	176,560	176,581	176,530	176,568	176,484	176,550	176,407	176,522	0,985
98	4,00	178,333	178,354	178,302	178,341	178,256	178,323	178,179	178,295	0,985
99	4,00	180,061	180,082	180,030	180,069	179,984	180,050	179,907	180,022	0,985
100	4,00	181,833	181,854	181,802	181,841	181,756	181,823	181,679	181,794	0,985

5.36 45° pressure angle, module 2

Table 141 — Geometry internal spline, $\alpha = 45°$, $m = 2$, fillet root, $E_{v\,min} = 3{,}142$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	12,00	8,4853	14,55	14,00	10,60	3,179	3,201	3,234	3,290
7	14,00	9,8995	16,55	16,00	12,57	3,179	3,202	3,236	3,292
8	16,00	11,3137	18,55	18,00	14,54	3,180	3,203	3,237	3,294
9	18,00	12,7279	20,55	20,00	16,52	3,180	3,204	3,238	3,296
10	20,00	14,1421	22,56	22,00	18,51	3,181	3,204	3,239	3,298
11	22,00	15,5563	24,56	24,00	20,50	3,181	3,205	3,240	3,299
12	24,00	16,9706	26,56	26,00	22,49	3,182	3,206	3,241	3,301
13	26,00	18,3848	28,56	28,00	24,48	3,182	3,206	3,242	3,302
14	28,00	19,7990	30,56	30,00	26,48	3,182	3,207	3,243	3,304
15	30,00	21,2132	32,56	32,00	28,47	3,183	3,207	3,244	3,305
16	32,00	22,6274	34,56	34,00	30,47	3,183	3,208	3,245	3,306
17	34,00	24,0416	36,57	36,00	32,46	3,183	3,208	3,246	3,308
18	36,00	25,4558	38,57	38,00	34,46	3,184	3,209	3,246	3,309
19	38,00	26,8701	40,57	40,00	36,46	3,184	3,209	3,247	3,310
20	40,00	28,2843	42,57	42,00	38,45	3,184	3,210	3,248	3,311
21	42,00	29,6985	44,57	44,00	40,45	3,185	3,210	3,248	3,312
22	44,00	31,1127	46,57	46,00	42,45	3,185	3,211	3,249	3,313
23	46,00	32,5269	48,57	48,00	44,45	3,185	3,211	3,250	3,314
24	48,00	33,9411	50,57	50,00	46,44	3,185	3,211	3,250	3,315
25	50,00	35,3553	52,57	52,00	48,44	3,186	3,212	3,251	3,316
26	52,00	36,7696	54,58	54,00	50,44	3,186	3,212	3,252	3,317
27	54,00	38,1838	56,58	56,00	52,44	3,186	3,212	3,252	3,318
28	56,00	39,5980	58,58	58,00	54,44	3,186	3,213	3,253	3,319
29	58,00	41,0122	60,58	60,00	56,44	3,186	3,213	3,253	3,320
30	60,00	42,4264	62,58	62,00	58,43	3,187	3,214	3,254	3,321
31	62,00	43,8406	64,58	64,00	60,43	3,187	3,214	3,254	3,322
32	64,00	45,2548	66,58	66,00	62,43	3,187	3,214	3,255	3,323
33	66,00	46,6690	68,58	68,00	64,43	3,187	3,215	3,255	3,323
34	68,00	48,0833	70,58	70,00	66,43	3,188	3,215	3,256	3,324
35	70,00	49,4975	72,58	72,00	68,43	3,188	3,215	3,256	3,325
36	72,00	50,9117	74,58	74,00	70,43	3,188	3,215	3,257	3,326
37	74,00	52,3259	76,58	76,00	72,43	3,188	3,216	3,257	3,326
38	76,00	53,7401	78,59	78,00	74,43	3,188	3,216	3,258	3,327
39	78,00	55,1543	80,59	80,00	76,43	3,188	3,216	3,258	3,328
40	80,00	56,5685	82,59	82,00	78,43	3,189	3,217	3,259	3,329
41	82,00	57,9828	84,59	84,00	80,42	3,189	3,217	3,259	3,329
42	84,00	59,3970	86,59	86,00	82,42	3,189	3,217	3,260	3,330
43	86,00	60,8112	88,59	88,00	84,42	3,189	3,218	3,260	3,331
44	88,00	62,2254	90,59	90,00	86,42	3,189	3,218	3,260	3,332
45	90,00	63,6396	92,59	92,00	88,42	3,190	3,218	3,261	3,332
46	92,00	65,0538	94,59	94,00	90,42	3,190	3,218	3,261	3,333
47	94,00	66,4680	96,59	96,00	92,42	3,190	3,219	3,262	3,334
48	96,00	67,8823	98,59	98,00	94,42	3,190	3,219	3,262	3,334
49	98,00	69,2965	100,59	100,00	96,42	3,190	3,219	3,263	3,335
50	100,00	70,7107	102,59	102,00	98,42	3,190	3,219	3,263	3,336
51	102,00	72,1249	104,59	104,00	100,42	3,191	3,220	3,263	3,336
52	104,00	73,5391	106,59	106,00	102,42	3,191	3,220	3,264	3,337
53	106,00	74,9533	108,60	108,00	104,42	3,191	3,220	3,264	3,337
54	108,00	76,3675	110,60	110,00	106,42	3,191	3,220	3,264	3,338
55	110,00	77,7817	112,60	112,00	108,42	3,191	3,221	3,265	3,339
56	112,00	79,1960	114,60	114,00	110,42	3,191	3,221	3,265	3,339
57	114,00	80,6102	116,60	116,00	112,42	3,191	3,221	3,266	3,340
58	116,00	82,0244	118,60	118,00	114,42	3,192	3,221	3,266	3,340
59	118,00	83,4386	120,60	120,00	116,42	3,192	3,222	3,266	3,341
60	120,00	84,8528	122,60	122,00	118,42	3,192	3,222	3,267	3,342
61	122,00	86,2670	124,60	124,00	120,42	3,192	3,222	3,267	3,342
62	124,00	87,6812	126,60	126,00	122,42	3,192	3,222	3,267	3,343
63	126,00	89,0955	128,60	128,00	124,42	3,192	3,222	3,268	3,343
64	128,00	90,5097	130,60	130,00	126,42	3,192	3,223	3,268	3,344
65	130,00	91,9239	132,60	132,00	128,42	3,193	3,223	3,268	3,344
66	132,00	93,3381	134,60	134,00	130,42	3,193	3,223	3,269	3,345
67	134,00	94,7523	136,60	136,00	132,42	3,193	3,223	3,269	3,345
68	136,00	96,1665	138,60	138,00	134,41	3,193	3,224	3,269	3,346
69	138,00	97,5807	140,60	140,00	136,41	3,193	3,224	3,270	3,346
70	140,00	98,9949	142,61	142,00	138,41	3,193	3,224	3,270	3,347
71	142,00	100,4092	144,61	144,00	140,41	3,193	3,224	3,270	3,348
72	144,00	101,8234	146,61	146,00	142,41	3,194	3,224	3,271	3,348
73	146,00	103,2376	148,61	148,00	144,41	3,194	3,225	3,271	3,349
74	148,00	104,6518	150,61	150,00	146,41	3,194	3,225	3,271	3,349
75	150,00	106,0660	152,61	152,00	148,41	3,194	3,225	3,272	3,350
76	152,00	107,4802	154,61	154,00	150,41	3,194	3,225	3,272	3,350
77	154,00	108,8944	156,61	156,00	152,41	3,194	3,225	3,272	3,351
78	156,00	110,3087	158,61	158,00	154,41	3,194	3,226	3,273	3,351
79	158,00	111,7229	160,61	160,00	156,41	3,194	3,226	3,273	3,352
80	160,00	113,1371	162,61	162,00	158,41	3,195	3,226	3,273	3,352
81	162,00	114,5513	164,61	164,00	160,41	3,195	3,226	3,274	3,353
82	164,00	115,9655	166,61	166,00	162,41	3,195	3,226	3,274	3,353
83	166,00	117,3797	168,61	168,00	164,41	3,195	3,227	3,274	3,354
84	168,00	118,7939	170,61	170,00	166,41	3,195	3,227	3,274	3,354
85	170,00	120,2082	172,61	172,00	168,41	3,195	3,227	3,275	3,354
86	172,00	121,6224	174,61	174,00	170,41	3,195	3,227	3,275	3,355
87	174,00	123,0366	176,61	176,00	172,41	3,195	3,227	3,275	3,355
88	176,00	124,4508	178,61	178,00	174,41	3,195	3,228	3,276	3,356
89	178,00	125,8650	180,61	180,00	176,41	3,196	3,228	3,276	3,356
90	180,00	127,2792	182,61	182,00	178,41	3,196	3,228	3,276	3,357
91	182,00	128,6934	184,62	184,00	180,41	3,196	3,228	3,277	3,357
92	184,00	130,1076	186,62	186,00	182,41	3,196	3,228	3,277	3,358
93	186,00	131,5219	188,62	188,00	184,41	3,196	3,228	3,277	3,358
94	188,00	132,9361	190,62	190,00	186,41	3,196	3,229	3,277	3,359
95	190,00	134,3503	192,62	192,00	188,41	3,196	3,229	3,278	3,359
96	192,00	135,7645	194,62	194,00	190,41	3,196	3,229	3,278	3,359
97	194,00	137,1787	196,62	196,00	192,41	3,196	3,229	3,278	3,360
98	196,00	138,5929	198,62	198,00	194,41	3,197	3,229	3,278	3,360
99	198,00	140,0071	200,62	200,00	196,41	3,197	3,230	3,279	3,361
100	200,00	141,4214	202,62	202,00	198,41	3,197	3,230	3,279	3,361

Table 142 — Geometry external spline, $\alpha = 45°$, $m = 2$, fillet root, $S_{v\,max} = 3{,}142$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	12,00	8,4853	13,60	10,20	9,45	3,105	3,083	3,050	2,994
7	14,00	9,8995	15,60	12,17	11,45	3,105	3,082	3,048	2,992
8	16,00	11,3137	17,60	14,14	13,45	3,104	3,081	3,047	2,990
9	18,00	12,7279	19,60	16,12	15,45	3,104	3,080	3,046	2,988
10	20,00	14,1421	21,60	18,11	17,44	3,103	3,080	3,045	2,986
11	22,00	15,5563	23,60	20,10	19,44	3,103	3,079	3,044	2,985
12	24,00	16,9706	25,60	22,09	21,44	3,102	3,078	3,043	2,983
13	26,00	18,3848	27,60	24,08	23,44	3,102	3,078	3,042	2,982
14	28,00	19,7990	29,60	26,08	25,44	3,102	3,077	3,041	2,980
15	30,00	21,2132	31,60	28,07	27,44	3,101	3,077	3,040	2,979
16	32,00	22,6274	33,60	30,07	29,44	3,101	3,076	3,039	2,978
17	34,00	24,0416	35,60	32,06	31,43	3,101	3,076	3,038	2,976
18	36,00	25,4558	37,60	34,06	33,43	3,100	3,075	3,038	2,975
19	38,00	26,8701	39,60	36,06	35,43	3,100	3,075	3,037	2,974
20	40,00	28,2843	41,60	38,05	37,43	3,100	3,074	3,036	2,973
21	42,00	29,6985	43,60	40,05	39,43	3,099	3,074	3,036	2,972
22	44,00	31,1127	45,60	42,05	41,43	3,099	3,073	3,035	2,971
23	46,00	32,5269	47,60	44,05	43,43	3,099	3,073	3,034	2,970
24	48,00	33,9411	49,60	46,04	45,43	3,099	3,073	3,034	2,969
25	50,00	35,3553	51,60	48,04	47,43	3,098	3,072	3,033	2,968
26	52,00	36,7696	53,60	50,04	49,42	3,098	3,072	3,032	2,967
27	54,00	38,1838	55,60	52,04	51,42	3,098	3,072	3,032	2,966
28	56,00	39,5980	57,60	54,04	53,42	3,098	3,071	3,031	2,965
29	58,00	41,0122	59,60	56,04	55,42	3,098	3,071	3,031	2,964
30	60,00	42,4264	61,60	58,03	57,42	3,097	3,070	3,030	2,963
31	62,00	43,8406	63,60	60,03	59,42	3,097	3,070	3,030	2,962
32	64,00	45,2548	65,60	62,03	61,42	3,097	3,070	3,029	2,961
33	66,00	46,6690	67,60	64,03	63,42	3,097	3,069	3,029	2,961
34	68,00	48,0833	69,60	66,03	65,42	3,096	3,069	3,028	2,960
35	70,00	49,4975	71,60	68,03	67,42	3,096	3,069	3,028	2,959
36	72,00	50,9117	73,60	70,03	69,42	3,096	3,069	3,027	2,958
37	74,00	52,3259	75,60	72,03	71,42	3,096	3,068	3,027	2,958
38	76,00	53,7401	77,60	74,03	73,41	3,096	3,068	3,026	2,957
39	78,00	55,1543	79,60	76,03	75,41	3,096	3,068	3,026	2,956
40	80,00	56,5685	81,60	78,03	77,41	3,095	3,067	3,025	2,955
41	82,00	57,9828	83,60	80,02	79,41	3,095	3,067	3,025	2,955
42	84,00	59,3970	85,60	82,02	81,41	3,095	3,067	3,024	2,954
43	86,00	60,8112	87,60	84,02	83,41	3,095	3,066	3,024	2,953
44	88,00	62,2254	89,60	86,02	85,41	3,095	3,066	3,024	2,952
45	90,00	63,6396	91,60	88,02	87,41	3,094	3,066	3,023	2,952
46	92,00	65,0538	93,60	90,02	89,41	3,094	3,066	3,023	2,951
47	94,00	66,4680	95,60	92,02	91,41	3,094	3,065	3,022	2,950
48	96,00	67,8823	97,60	94,02	93,41	3,094	3,065	3,022	2,950
49	98,00	69,2965	99,60	96,02	95,41	3,094	3,065	3,021	2,949
50	100,00	70,7107	101,60	98,02	97,41	3,094	3,065	3,021	2,948
51	102,00	72,1249	103,60	100,02	99,41	3,093	3,064	3,021	2,948
52	104,00	73,5391	105,60	102,02	101,41	3,093	3,064	3,020	2,947
53	106,00	74,9533	107,60	104,02	103,40	3,093	3,064	3,020	2,947
54	108,00	76,3675	109,60	106,02	105,40	3,093	3,064	3,020	2,946
55	110,00	77,7817	111,60	108,02	107,40	3,093	3,063	3,019	2,945
56	112,00	79,1960	113,60	110,02	109,40	3,093	3,063	3,019	2,945
57	114,00	80,6102	115,60	112,02	111,40	3,093	3,063	3,018	2,944
58	116,00	82,0244	117,60	114,02	113,40	3,092	3,063	3,018	2,944
59	118,00	83,4386	119,60	116,02	115,40	3,092	3,062	3,018	2,943
60	120,00	84,8528	121,60	118,02	117,40	3,092	3,062	3,017	2,942
61	122,00	86,2670	123,60	120,02	119,40	3,092	3,062	3,017	2,942
62	124,00	87,6812	125,60	122,02	121,40	3,092	3,062	3,017	2,941
63	126,00	89,0955	127,60	124,02	123,40	3,092	3,062	3,016	2,941
64	128,00	90,5097	129,60	126,02	125,40	3,092	3,061	3,016	2,940
65	130,00	91,9239	131,60	128,02	127,40	3,091	3,061	3,016	2,940
66	132,00	93,3381	133,60	130,02	129,40	3,091	3,061	3,015	2,939
67	134,00	94,7523	135,60	132,02	131,40	3,091	3,061	3,015	2,939
68	136,00	96,1665	137,60	134,01	133,40	3,091	3,060	3,015	2,938
69	138,00	97,5807	139,60	136,01	135,40	3,091	3,060	3,014	2,938
70	140,00	98,9949	141,60	138,01	137,39	3,091	3,060	3,014	2,937
71	142,00	100,4092	143,60	140,01	139,39	3,091	3,060	3,014	2,936
72	144,00	101,8234	145,60	142,01	141,39	3,090	3,060	3,013	2,936
73	146,00	103,2376	147,60	144,01	143,39	3,090	3,059	3,013	2,935
74	148,00	104,6518	149,60	146,01	145,39	3,090	3,059	3,013	2,935
75	150,00	106,0660	151,60	148,01	147,39	3,090	3,059	3,012	2,934
76	152,00	107,4802	153,60	150,01	149,39	3,090	3,059	3,012	2,934
77	154,00	108,8944	155,60	152,01	151,39	3,090	3,059	3,012	2,933
78	156,00	110,3087	157,60	154,01	153,39	3,090	3,058	3,011	2,933
79	158,00	111,7229	159,60	156,01	155,39	3,090	3,058	3,011	2,932
80	160,00	113,1371	161,60	158,01	157,39	3,089	3,058	3,011	2,932
81	162,00	114,5513	163,60	160,01	159,39	3,089	3,058	3,010	2,931
82	164,00	115,9655	165,60	162,01	161,39	3,089	3,058	3,010	2,931
83	166,00	117,3797	167,60	164,01	163,39	3,089	3,057	3,010	2,930
84	168,00	118,7939	169,60	166,01	165,39	3,089	3,057	3,010	2,930
85	170,00	120,2082	171,60	168,01	167,39	3,089	3,057	3,009	2,930
86	172,00	121,6224	173,60	170,01	169,39	3,089	3,057	3,009	2,929
87	174,00	123,0366	175,60	172,01	171,39	3,089	3,057	3,009	2,929
88	176,00	124,4508	177,60	174,01	173,39	3,089	3,056	3,008	2,928
89	178,00	125,8650	179,60	176,01	175,39	3,088	3,056	3,008	2,928
90	180,00	127,2792	181,60	178,01	177,39	3,088	3,056	3,008	2,927
91	182,00	128,6934	183,60	180,01	179,38	3,088	3,056	3,007	2,927
92	184,00	130,1076	185,60	182,01	181,38	3,088	3,056	3,007	2,926
93	186,00	131,5219	187,60	184,01	183,38	3,088	3,056	3,007	2,926
94	188,00	132,9361	189,60	186,01	185,38	3,088	3,055	3,007	2,925
95	190,00	134,3503	191,60	188,01	187,38	3,088	3,055	3,006	2,925
96	192,00	135,7645	193,60	190,01	189,38	3,088	3,055	3,006	2,925
97	194,00	137,1787	195,60	192,01	191,38	3,088	3,055	3,006	2,924
98	196,00	138,5929	197,60	194,01	193,38	3,087	3,055	3,006	2,924
99	198,00	140,0071	199,60	196,01	195,38	3,087	3,054	3,005	2,923
100	200,00	141,4214	201,60	198,01	197,38	3,087	3,054	3,005	2,923

Table 143 — Inspection dimensions internal spline, $\alpha = 45°$, $m = 2$, $E_{v\,min} = 3{,}142$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	3,75	5,722	5,759	5,732	5,794	5,747	5,844	5,771	5,927	1,471
7	3,75	7,535	7,567	7,544	7,596	7,557	7,640	7,577	7,712	1,278
8	4,00	9,166	9,198	9,175	9,229	9,188	9,276	9,210	9,352	1,331
9	4,00	10,997	11,027	11,006	11,056	11,018	11,099	11,038	11,171	1,236
10	4,00	13,271	13,300	13,279	13,328	13,292	13,371	13,312	13,442	1,208
11	4,00	15,105	15,133	15,113	15,161	15,126	15,202	15,145	15,271	1,164
12	4,00	17,325	17,353	17,333	17,380	17,346	17,422	17,365	17,491	1,153
13	4,00	19,173	19,200	19,182	19,228	19,194	19,268	19,213	19,336	1,126
14	4,25	20,703	20,731	20,712	20,759	20,724	20,801	20,744	20,871	1,149
15	4,25	22,573	22,600	22,582	22,628	22,594	22,670	22,614	22,739	1,128
16	4,25	24,736	24,763	24,744	24,790	24,757	24,832	24,777	24,901	1,122
17	4,25	26,616	26,643	26,625	26,670	26,637	26,712	26,657	26,780	1,107
18	4,25	28,759	28,785	28,768	28,813	28,781	28,855	28,801	28,924	1,103
19	4,25	30,649	30,675	30,658	30,703	30,670	30,744	30,691	30,813	1,092
20	4,25	32,777	32,803	32,786	32,831	32,799	32,872	32,819	32,941	1,089
21	4,25	34,675	34,701	34,684	34,729	34,697	34,770	34,717	34,839	1,080
22	4,25	36,791	36,817	36,800	36,844	36,813	36,886	36,833	36,955	1,078
23	4,25	38,696	38,722	38,705	38,750	38,719	38,791	38,739	38,861	1,072
24	4,25	40,802	40,828	40,811	40,856	40,824	40,897	40,845	40,967	1,070
25	4,25	42,714	42,739	42,723	42,767	42,737	42,809	42,757	42,879	1,065
26	4,25	44,811	44,837	44,821	44,865	44,834	44,907	44,855	44,977	1,063
27	4,25	46,729	46,754	46,738	46,782	46,752	46,824	46,773	46,894	1,059
28	4,25	48,819	48,844	48,829	48,873	48,842	48,915	48,864	48,985	1,058
29	4,25	50,742	50,767	50,751	50,795	50,765	50,838	50,787	50,908	1,054
30	4,25	52,826	52,851	52,836	52,879	52,849	52,922	52,871	52,992	1,053
31	4,25	54,753	54,778	54,763	54,806	54,777	54,849	54,799	54,920	1,050
32	4,25	56,832	56,857	56,842	56,885	56,856	56,928	56,878	56,999	1,049
33	4,25	58,763	58,788	58,773	58,816	58,787	58,859	58,809	58,930	1,046
34	4,25	60,837	60,862	60,847	60,890	60,861	60,933	60,883	61,005	1,046
35	4,50	62,150	62,175	62,161	62,204	62,175	62,247	62,198	62,320	1,050
36	4,50	64,220	64,245	64,231	64,274	64,245	64,318	64,268	64,390	1,050
37	4,50	66,159	66,184	66,170	66,213	66,184	66,257	66,207	66,329	1,047
38	4,50	68,225	68,250	68,236	68,279	68,251	68,323	68,274	68,396	1,047
39	4,50	70,167	70,192	70,178	70,221	70,193	70,265	70,216	70,338	1,044
40	4,50	72,230	72,255	72,241	72,284	72,256	72,328	72,279	72,401	1,044
41	4,50	74,174	74,199	74,185	74,228	74,200	74,272	74,223	74,346	1,042
42	4,50	76,234	76,259	76,245	76,288	76,260	76,332	76,284	76,406	1,041
43	4,50	78,181	78,205	78,192	78,235	78,207	78,279	78,231	78,353	1,040
44	4,50	80,238	80,262	80,249	80,292	80,264	80,336	80,288	80,410	1,039
45	4,50	82,187	82,211	82,198	82,241	82,213	82,285	82,237	82,359	1,038
46	4,50	84,241	84,266	84,252	84,295	84,268	84,340	84,292	84,414	1,037
47	4,50	86,192	86,217	86,203	86,246	86,219	86,291	86,243	86,366	1,036
48	4,50	88,244	88,269	88,256	88,299	88,271	88,343	88,296	88,418	1,036
49	4,50	90,197	90,221	90,208	90,251	90,224	90,296	90,249	90,371	1,034
50	4,50	92,247	92,272	92,259	92,302	92,275	92,347	92,299	92,422	1,034
51	4,50	94,202	94,226	94,213	94,256	94,229	94,301	94,254	94,376	1,033
52	4,50	96,250	96,274	96,261	96,304	96,278	96,350	96,303	96,425	1,032
53	4,50	98,206	98,230	98,218	98,260	98,234	98,306	98,259	98,381	1,031
54	4,50	100,253	100,277	100,264	100,307	100,280	100,352	100,306	100,428	1,031
55	4,50	102,210	102,234	102,222	102,265	102,238	102,310	102,264	102,386	1,030
56	4,50	104,255	104,279	104,267	104,309	104,283	104,355	104,309	104,431	1,030
57	4,50	106,214	106,238	106,226	106,268	106,242	106,314	106,268	106,390	1,029
58	4,50	108,257	108,281	108,269	108,311	108,286	108,357	108,311	108,434	1,029
59	4,50	110,217	110,241	110,229	110,272	110,246	110,318	110,272	110,395	1,028
60	4,50	112,259	112,283	112,271	112,314	112,288	112,360	112,314	112,437	1,028
61	4,50	114,221	114,244	114,233	114,275	114,250	114,321	114,276	114,399	1,027
62	4,50	116,261	116,285	116,273	116,316	116,290	116,362	116,316	116,439	1,027
63	4,50	118,224	118,247	118,236	118,278	118,253	118,325	118,279	118,402	1,026
64	4,50	120,263	120,286	120,275	120,317	120,292	120,364	120,319	120,442	1,026
65	4,50	122,227	122,250	122,239	122,281	122,256	122,328	122,283	122,406	1,025
66	4,50	124,264	124,288	124,277	124,319	124,294	124,366	124,321	124,444	1,025
67	4,50	126,229	126,253	126,242	126,284	126,259	126,331	126,286	126,409	1,024
68	4,50	128,266	128,289	128,279	128,321	128,296	128,368	128,323	128,446	1,024
69	4,50	130,232	130,255	130,244	130,287	130,262	130,334	130,289	130,412	1,023
70	4,50	132,268	132,291	132,280	132,322	132,298	132,370	132,325	132,448	1,023
71	4,50	134,234	134,258	134,247	134,289	134,265	134,337	134,292	134,415	1,023
72	4,50	136,269	136,292	136,282	136,324	136,300	136,371	136,327	136,450	1,023
73	4,50	138,237	138,260	138,250	138,292	138,268	138,339	138,295	138,418	1,022
74	4,50	140,270	140,294	140,283	140,325	140,301	140,373	140,329	140,452	1,022
75	4,50	142,239	142,262	142,252	142,294	142,270	142,342	142,298	142,421	1,021
76	4,50	144,272	144,295	144,285	144,327	144,303	144,375	144,331	144,454	1,021
77	4,50	146,241	146,264	146,254	146,296	146,272	146,344	146,301	146,424	1,021
78	4,50	148,273	148,296	148,286	148,328	148,305	148,376	148,333	148,456	1,021
79	4,50	150,243	150,266	150,256	150,298	150,275	150,346	150,303	150,427	1,020
80	4,50	152,274	152,297	152,287	152,329	152,306	152,378	152,335	152,458	1,020
81	4,50	154,245	154,268	154,258	154,300	154,277	154,348	154,306	154,429	1,020
82	4,50	156,275	156,298	156,289	156,331	156,308	156,379	156,336	156,460	1,020
83	4,50	158,247	158,270	158,260	158,302	158,279	158,351	158,308	158,431	1,019
84	4,50	160,277	160,299	160,290	160,332	160,309	160,380	160,338	160,461	1,019
85	4,50	162,249	162,271	162,262	162,304	162,281	162,353	162,310	162,434	1,019
86	4,50	164,278	164,300	164,291	164,333	164,310	164,382	164,340	164,463	1,019
87	4,50	166,250	166,273	166,264	166,306	166,283	166,355	166,312	166,436	1,018
88	4,50	168,279	168,301	168,292	168,334	168,312	168,383	168,341	168,465	1,018
89	4,50	170,252	170,275	170,266	170,307	170,285	170,356	170,315	170,438	1,018
90	4,50	172,280	172,302	172,293	172,335	172,313	172,384	172,343	172,466	1,018
91	4,50	174,253	174,276	174,267	174,309	174,287	174,358	174,317	174,440	1,017
92	4,50	176,281	176,303	176,294	176,336	176,314	176,385	176,344	176,468	1,017
93	4,50	178,255	178,277	178,269	178,310	178,289	178,360	178,319	178,442	1,017
94	4,50	180,281	180,304	180,296	180,337	180,315	180,387	180,345	180,469	1,017
95	4,50	182,256	182,279	182,271	182,312	182,290	182,362	182,321	182,444	1,017
96	4,50	184,282	184,305	184,297	184,338	184,316	184,388	184,347	184,471	1,017
97	4,50	186,258	186,280	186,272	186,313	186,292	186,363	186,322	186,446	1,016
98	4,50	188,283	188,306	188,298	188,339	188,318	188,389	188,348	188,472	1,016
99	4,50	190,259	190,281	190,273	190,315	190,294	190,365	190,324	190,448	1,016
100	4,50	192,284	192,306	192,298	192,340	192,319	192,390	192,350	192,473	1,016

Table 144 — Inspection dimensions external spline, $\alpha = 45°$, $m = 2$, $S_{v\,max} = 3{,}142$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	6,30	23,342	23,361	23,324	23,356	23,297	23,349	23,252	23,336	0,817
7	6,00	24,276	24,295	24,258	24,290	24,230	24,282	24,185	24,270	0,813
8	6,00	26,789	26,809	26,770	26,803	26,741	26,795	26,693	26,782	0,845
9	5,60	27,601	27,621	27,582	27,616	27,552	27,607	27,504	27,594	0,849
10	5,60	29,968	29,988	29,947	29,982	29,917	29,973	29,866	29,959	0,870
11	5,30	31,053	31,074	31,033	31,068	31,002	31,059	30,950	31,044	0,875
12	5,30	33,336	33,357	33,315	33,350	33,283	33,341	33,230	33,326	0,890
13	5,30	35,132	35,153	35,111	35,147	35,079	35,137	35,025	35,122	0,889
14	5,30	37,365	37,387	37,343	37,380	37,311	37,370	37,256	37,355	0,901
15	5,00	38,508	38,530	38,486	38,523	38,453	38,513	38,398	38,497	0,907
16	5,00	40,702	40,724	40,680	40,717	40,646	40,707	40,590	40,691	0,916
17	5,00	42,550	42,572	42,527	42,565	42,493	42,554	42,436	42,538	0,916
18	5,00	44,719	44,741	44,696	44,733	44,661	44,723	44,603	44,706	0,923
19	5,00	46,583	46,605	46,560	46,598	46,525	46,587	46,467	46,570	0,923
20	5,00	48,732	48,754	48,709	48,747	48,673	48,736	48,614	48,719	0,929
21	5,00	50,610	50,632	50,586	50,625	50,551	50,614	50,492	50,596	0,929
22	5,00	52,743	52,766	52,720	52,758	52,684	52,747	52,624	52,729	0,934
23	5,00	54,633	54,655	54,608	54,647	54,572	54,635	54,512	54,618	0,934
24	5,00	56,753	56,776	56,729	56,767	56,692	56,756	56,631	56,738	0,938
25	4,75	58,069	58,092	58,045	58,084	58,008	58,072	57,946	58,053	0,943
26	4,75	60,178	60,201	60,153	60,192	60,116	60,180	60,054	60,162	0,947
27	4,75	62,084	62,107	62,059	62,098	62,022	62,086	61,959	62,067	0,947
28	4,75	64,184	64,207	64,159	64,198	64,121	64,186	64,058	64,167	0,950
29	4,75	66,097	66,119	66,072	66,111	66,034	66,099	65,970	66,079	0,950
30	4,75	68,190	68,212	68,164	68,203	68,126	68,191	68,062	68,171	0,953
31	4,75	70,108	70,131	70,082	70,122	70,044	70,109	69,980	70,090	0,953
32	4,75	72,194	72,217	72,168	72,208	72,130	72,195	72,065	72,175	0,955
33	4,75	74,118	74,140	74,092	74,131	74,053	74,118	73,988	74,098	0,955
34	4,75	76,198	76,221	76,172	76,212	76,133	76,199	76,068	76,179	0,957
35	4,75	78,126	78,149	78,100	78,140	78,061	78,127	77,995	78,106	0,958
36	4,75	80,202	80,225	80,176	80,215	80,136	80,202	80,070	80,182	0,959
37	4,75	82,134	82,157	82,108	82,147	82,068	82,134	82,001	82,113	0,960
38	4,75	84,206	84,228	84,179	84,219	84,139	84,205	84,072	84,184	0,961
39	4,75	86,141	86,164	86,114	86,154	86,074	86,140	86,007	86,119	0,961
40	4,75	88,209	88,231	88,182	88,221	88,141	88,208	88,074	88,186	0,963
41	4,75	90,147	90,170	90,120	90,160	90,080	90,146	90,012	90,125	0,963
42	4,75	92,211	92,234	92,184	92,224	92,143	92,210	92,075	92,188	0,965
43	4,75	94,153	94,176	94,126	94,166	94,085	94,151	94,016	94,130	0,965
44	4,75	96,214	96,236	96,186	96,226	96,145	96,212	96,077	96,190	0,966
45	4,75	98,158	98,181	98,130	98,170	98,089	98,156	98,020	98,134	0,966
46	4,75	100,216	100,239	100,188	100,228	100,147	100,214	100,078	100,192	0,967
47	4,75	102,163	102,185	102,135	102,175	102,093	102,160	102,024	102,138	0,967
48	4,75	104,218	104,241	104,190	104,230	104,148	104,216	104,079	104,193	0,969
49	4,75	106,167	106,190	106,139	106,179	106,097	106,164	106,027	106,141	0,969
50	4,75	108,220	108,243	108,192	108,232	108,150	108,217	108,079	108,194	0,970
51	4,75	110,171	110,193	110,143	110,183	110,100	110,168	110,030	110,145	0,970
52	4,75	112,222	112,244	112,193	112,234	112,151	112,218	112,080	112,195	0,971
53	4,75	114,174	114,197	114,146	114,186	114,103	114,171	114,032	114,147	0,971
54	4,75	116,223	116,246	116,195	116,235	116,152	116,220	116,081	116,196	0,972
55	4,75	118,178	118,200	118,149	118,189	118,106	118,174	118,035	118,150	0,972
56	4,75	120,225	120,247	120,196	120,236	120,153	120,221	120,081	120,197	0,973
57	4,75	122,181	122,203	122,152	122,192	122,109	122,177	122,037	122,153	0,973
58	4,75	124,226	124,249	124,197	124,238	124,154	124,222	124,081	124,197	0,974
59	4,75	126,184	126,206	126,155	126,195	126,111	126,179	126,039	126,155	0,974
60	4,75	128,228	128,250	128,198	128,239	128,155	128,223	128,082	128,198	0,974
61	4,75	130,187	130,209	130,157	130,198	130,113	130,181	130,040	130,157	0,974
62	4,75	132,229	132,251	132,199	132,240	132,155	132,223	132,082	132,199	0,975
63	4,75	134,189	134,211	134,160	134,200	134,115	134,184	134,042	134,159	0,975
64	4,75	136,230	136,252	136,200	136,241	136,156	136,224	136,082	136,199	0,976
65	4,75	138,191	138,214	138,162	138,202	138,117	138,186	138,043	138,160	0,976
66	4,75	140,231	140,253	140,201	140,241	140,157	140,225	140,082	140,199	0,977
67	4,75	142,194	142,216	142,164	142,204	142,119	142,187	142,045	142,162	0,977
68	4,75	144,232	144,254	144,202	144,242	144,157	144,225	144,082	144,200	0,977
69	4,75	146,196	146,218	146,166	146,206	146,121	146,189	146,046	146,163	0,977
70	4,75	148,233	148,255	148,203	148,243	148,158	148,226	148,082	148,200	0,978
71	4,75	150,198	150,220	150,167	150,208	150,122	150,191	150,047	150,165	0,978
72	4,75	152,234	152,256	152,203	152,244	152,158	152,226	152,082	152,200	0,978
73	4,75	154,199	154,222	154,169	154,209	154,124	154,192	154,048	154,166	0,978
74	4,75	156,234	156,257	156,204	156,244	156,158	156,227	156,082	156,200	0,979
75	4,75	158,201	158,223	158,171	158,211	158,125	158,193	158,049	158,167	0,979
76	4,75	160,235	160,257	160,205	160,245	160,159	160,227	160,082	160,200	0,979
77	4,75	162,203	162,225	162,172	162,212	162,126	162,195	162,050	162,168	0,979
78	4,75	164,236	164,258	164,205	164,245	164,159	164,228	164,082	164,201	0,980
79	4,75	166,204	166,226	166,173	166,214	166,127	166,196	166,050	166,169	0,980
80	4,75	168,236	168,259	168,206	168,246	168,159	168,228	168,082	168,201	0,980
81	4,75	170,206	170,228	170,175	170,215	170,128	170,197	170,051	170,170	0,980
82	4,75	172,237	172,259	172,206	172,246	172,160	172,228	172,082	172,201	0,981
83	4,75	174,207	174,229	174,176	174,216	174,129	174,198	174,052	174,170	0,981
84	4,75	176,238	176,260	176,207	176,247	176,160	176,228	176,082	176,201	0,981
85	4,75	178,208	178,230	178,177	178,217	178,130	178,199	178,052	178,171	0,981
86	4,75	180,238	180,260	180,207	180,247	180,160	180,229	180,082	180,201	0,982
87	4,75	182,210	182,231	182,178	182,218	182,131	182,200	182,053	182,172	0,982
88	4,75	184,239	184,261	184,207	184,247	184,160	184,229	184,081	184,200	0,982
89	4,75	186,211	186,233	186,179	186,219	186,132	186,201	186,053	186,172	0,982
90	4,75	188,239	188,261	188,208	188,248	188,160	188,229	188,081	188,200	0,982
91	4,75	190,212	190,234	190,180	190,220	190,133	190,201	190,053	190,173	0,983
92	4,75	192,240	192,261	192,208	192,248	192,160	192,229	192,081	192,200	0,983
93	4,75	194,213	194,235	194,181	194,221	194,133	194,202	194,054	194,173	0,983
94	4,75	196,240	196,262	196,208	196,248	196,160	196,229	196,081	196,200	0,983
95	4,75	198,214	198,236	198,182	198,222	198,134	198,203	198,054	198,174	0,983
96	4,75	200,241	200,262	200,209	200,249	200,160	200,229	200,080	200,200	0,984
97	4,75	202,215	202,237	202,183	202,223	202,135	202,203	202,054	202,174	0,984
98	4,75	204,241	204,263	204,209	204,249	204,160	204,229	204,080	204,200	0,984
99	4,75	206,216	206,237	206,184	206,224	206,135	206,204	206,054	206,174	0,984
100	4,75	208,241	208,263	208,209	208,249	208,160	208,229	208,080	208,200	0,984

5.37 45° pressure angle, module 2,5

Table 145 — Geometry internal spline, $\alpha = 45°$, $m = 2{,}5$, fillet root, $E_{v\,min} = 3{,}927$

z	D	D_b	$D_{ei\,max}$	$D_{Fi\,min}$	$D_{ii\,min}$	E_{max}			
						4H	5H	6H	7H
6	15,00	10,6066	18,16	17,50	13,25	3,967	3,991	4,027	4,086
7	17,50	12,3744	20,66	20,00	15,71	3,967	3,992	4,028	4,089
8	20,00	14,1421	23,16	22,50	18,18	3,968	3,993	4,029	4,091
9	22,50	15,9099	25,67	25,00	20,66	3,968	3,993	4,031	4,093
10	25,00	17,6777	28,17	27,50	23,14	3,969	3,994	4,032	4,095
11	27,50	19,4454	30,67	30,00	25,62	3,969	3,995	4,033	4,097
12	30,00	21,2132	33,17	32,50	28,11	3,970	3,996	4,034	4,098
13	32,50	22,9810	35,67	35,00	30,60	3,970	3,996	4,035	4,100
14	35,00	24,7487	38,17	37,50	33,10	3,971	3,997	4,036	4,102
15	37,50	26,5165	40,68	40,00	35,59	3,971	3,997	4,037	4,103
16	40,00	28,2843	43,18	42,50	38,08	3,971	3,998	4,038	4,104
17	42,50	30,0520	45,68	45,00	40,58	3,972	3,998	4,039	4,106
18	45,00	31,8198	48,18	47,50	43,07	3,972	3,999	4,040	4,107
19	47,50	33,5876	50,68	50,00	45,57	3,972	4,000	4,040	4,108
20	50,00	35,3553	53,18	52,50	48,07	3,973	4,000	4,041	4,110
21	52,50	37,1231	55,68	55,00	50,56	3,973	4,000	4,042	4,111
22	55,00	38,8909	58,18	57,50	53,06	3,973	4,001	4,043	4,112
23	57,50	40,6586	60,69	60,00	55,56	3,973	4,001	4,043	4,113
24	60,00	42,4264	63,19	62,50	58,05	3,974	4,002	4,044	4,114
25	62,50	44,1942	65,69	65,00	60,55	3,974	4,002	4,045	4,115
26	65,00	45,9619	68,19	67,50	63,05	3,974	4,003	4,045	4,116
27	67,50	47,7297	70,69	70,00	65,55	3,975	4,003	4,046	4,117
28	70,00	49,4975	73,19	72,50	68,05	3,975	4,003	4,047	4,118
29	72,50	51,2652	75,69	75,00	70,54	3,975	4,004	4,047	4,119
30	75,00	53,0330	78,19	77,50	73,04	3,975	4,004	4,048	4,120
31	77,50	54,8008	80,69	80,00	75,54	3,976	4,005	4,048	4,121
32	80,00	56,5685	83,19	82,50	78,04	3,976	4,005	4,049	4,122
33	82,50	58,3363	85,70	85,00	80,54	3,976	4,005	4,049	4,123
34	85,00	60,1041	88,20	87,50	83,04	3,976	4,006	4,050	4,124
35	87,50	61,8718	90,70	90,00	85,54	3,976	4,006	4,051	4,125
36	90,00	63,6396	93,20	92,50	88,04	3,977	4,006	4,051	4,125
37	92,50	65,4074	95,70	95,00	90,53	3,977	4,007	4,052	4,126
38	95,00	67,1751	98,20	97,50	93,03	3,977	4,007	4,052	4,127
39	97,50	68,9429	100,70	100,00	95,53	3,977	4,007	4,053	4,128
40	100,00	70,7107	103,20	102,50	98,03	3,977	4,008	4,053	4,129
41	102,50	72,4784	105,70	105,00	100,53	3,978	4,008	4,054	4,130
42	105,00	74,2462	108,20	107,50	103,03	3,978	4,008	4,054	4,130
43	107,50	76,0140	110,70	110,00	105,53	3,978	4,009	4,055	4,131
44	110,00	77,7817	113,20	112,50	108,03	3,978	4,009	4,055	4,132
45	112,50	79,5495	115,71	115,00	110,53	3,978	4,009	4,056	4,133
46	115,00	81,3173	118,21	117,50	113,03	3,979	4,010	4,056	4,133
47	117,50	83,0850	120,71	120,00	115,53	3,979	4,010	4,056	4,134
48	120,00	84,8528	123,21	122,50	118,03	3,979	4,010	4,057	4,135
49	122,50	86,6206	125,71	125,00	120,53	3,979	4,010	4,057	4,136
50	125,00	88,3883	128,21	127,50	123,03	3,979	4,011	4,058	4,136
51	127,50	90,1561	130,71	130,00	125,52	3,979	4,011	4,058	4,137
52	130,00	91,9239	133,21	132,50	128,02	3,980	4,011	4,059	4,138
53	132,50	93,6916	135,71	135,00	130,52	3,980	4,012	4,059	4,138
54	135,00	95,4594	138,21	137,50	133,02	3,980	4,012	4,059	4,139
55	137,50	97,2272	140,71	140,00	135,52	3,980	4,012	4,060	4,140
56	140,00	98,9949	143,21	142,50	138,02	3,980	4,012	4,060	4,140
57	142,50	100,7627	145,71	145,00	140,52	3,980	4,013	4,061	4,141
58	145,00	102,5305	148,21	147,50	143,02	3,981	4,013	4,061	4,142
59	147,50	104,2983	150,72	150,00	145,52	3,981	4,013	4,062	4,142
60	150,00	106,0660	153,22	152,50	148,02	3,981	4,013	4,062	4,143
61	152,50	107,8338	155,72	155,00	150,52	3,981	4,014	4,062	4,143
62	155,00	109,6016	158,22	157,50	153,02	3,981	4,014	4,063	4,144
63	157,50	111,3693	160,72	160,00	155,52	3,981	4,014	4,063	4,145
64	160,00	113,1371	163,22	162,50	158,02	3,982	4,014	4,063	4,145
65	162,50	114,9049	165,72	165,00	160,52	3,982	4,015	4,064	4,146
66	165,00	116,6726	168,22	167,50	163,02	3,982	4,015	4,064	4,147
67	167,50	118,4404	170,72	170,00	165,52	3,982	4,015	4,065	4,147
68	170,00	120,2082	173,22	172,50	168,02	3,982	4,015	4,065	4,148
69	172,50	121,9759	175,72	175,00	170,52	3,982	4,016	4,065	4,148
70	175,00	123,7437	178,22	177,50	173,02	3,982	4,016	4,066	4,149
71	177,50	125,5115	180,72	180,00	175,52	3,983	4,016	4,066	4,149
72	180,00	127,2792	183,22	182,50	178,02	3,983	4,016	4,066	4,150
73	182,50	129,0470	185,72	185,00	180,52	3,983	4,016	4,067	4,151
74	185,00	130,8148	188,22	187,50	183,02	3,983	4,017	4,067	4,151
75	187,50	132,5825	190,72	190,00	185,52	3,983	4,017	4,067	4,152
76	190,00	134,3503	193,23	192,50	188,02	3,983	4,017	4,068	4,152
77	192,50	136,1181	195,73	195,00	190,52	3,983	4,017	4,068	4,153
78	195,00	137,8858	198,23	197,50	193,02	3,984	4,018	4,069	4,153
79	197,50	139,6536	200,73	200,00	195,52	3,984	4,018	4,069	4,154
80	200,00	141,4214	203,23	202,50	198,02	3,984	4,018	4,069	4,154
81	202,50	143,1891	205,73	205,00	200,52	3,984	4,018	4,070	4,155
82	205,00	144,9569	208,23	207,50	203,02	3,984	4,018	4,070	4,156
83	207,50	146,7247	210,73	210,00	205,52	3,984	4,019	4,070	4,156
84	210,00	148,4924	213,23	212,50	208,02	3,984	4,019	4,071	4,157
85	212,50	150,2602	215,73	215,00	210,51	3,985	4,019	4,071	4,157
86	215,00	152,0280	218,23	217,50	213,01	3,985	4,019	4,071	4,158
87	217,50	153,7957	220,73	220,00	215,51	3,985	4,019	4,071	4,158
88	220,00	155,5635	223,23	222,50	218,01	3,985	4,020	4,072	4,159
89	222,50	157,3313	225,73	225,00	220,51	3,985	4,020	4,072	4,159
90	225,00	159,0990	228,23	227,50	223,01	3,985	4,020	4,072	4,160
91	227,50	160,8668	230,73	230,00	225,51	3,985	4,020	4,073	4,160
92	230,00	162,6346	233,23	232,50	228,01	3,985	4,020	4,073	4,161
93	232,50	164,4023	235,73	235,00	230,51	3,986	4,021	4,073	4,161
94	235,00	166,1701	238,23	237,50	233,01	3,986	4,021	4,074	4,162
95	237,50	167,9379	240,74	240,00	235,51	3,986	4,021	4,074	4,162
96	240,00	169,7056	243,24	242,50	238,01	3,986	4,021	4,074	4,163
97	242,50	171,4734	245,74	245,00	240,51	3,986	4,021	4,075	4,163
98	245,00	173,2412	248,24	247,50	243,01	3,986	4,022	4,075	4,164
99	247,50	175,0089	250,74	250,00	245,51	3,986	4,022	4,075	4,164
100	250,00	176,7767	253,24	252,50	248,01	3,986	4,022	4,076	4,165

Table 146 — Geometry external spline, $\alpha = 45°$, $m = 2{,}5$, fillet root, $S_{v\,max} = 3{,}927$

z	D	D_b	$D_{ee\,max}$	$D_{Fe\,max}$	$D_{ie\,min}$	S_{min}			
						4h	5h	6h	7h
6	15,00	10,6066	17,00	12,75	11,84	3,887	3,863	3,827	3,768
7	17,50	12,3744	19,50	15,21	14,34	3,887	3,862	3,826	3,765
8	20,00	14,1421	22,00	17,68	16,84	3,886	3,861	3,825	3,763
9	22,50	15,9099	24,50	20,16	19,33	3,886	3,861	3,823	3,761
10	25,00	17,6777	27,00	22,64	21,83	3,885	3,860	3,822	3,759
11	27,50	19,4454	29,50	25,12	24,33	3,885	3,859	3,821	3,757
12	30,00	21,2132	32,00	27,61	26,83	3,884	3,858	3,820	3,756
13	32,50	22,9810	34,50	30,10	29,33	3,884	3,858	3,819	3,754
14	35,00	24,7487	37,00	32,60	31,83	3,883	3,857	3,818	3,752
15	37,50	26,5165	39,50	35,09	34,32	3,883	3,857	3,817	3,751
16	40,00	28,2843	42,00	37,58	36,82	3,883	3,856	3,816	3,750
17	42,50	30,0520	44,50	40,08	39,32	3,882	3,856	3,815	3,748
18	45,00	31,8198	47,00	42,57	41,82	3,882	3,855	3,814	3,747
19	47,50	33,5876	49,50	45,07	44,32	3,882	3,854	3,814	3,746
20	50,00	35,3553	52,00	47,57	46,82	3,881	3,854	3,813	3,744
21	52,50	37,1231	54,50	50,06	49,32	3,881	3,854	3,812	3,743
22	55,00	38,8909	57,00	52,56	51,82	3,881	3,853	3,811	3,742
23	57,50	40,6586	59,50	55,06	54,31	3,881	3,853	3,811	3,741
24	60,00	42,4264	62,00	57,55	56,81	3,880	3,852	3,810	3,740
25	62,50	44,1942	64,50	60,05	59,31	3,880	3,852	3,809	3,739
26	65,00	45,9619	67,00	62,55	61,81	3,880	3,851	3,809	3,738
27	67,50	47,7297	69,50	65,05	64,31	3,879	3,851	3,808	3,737
28	70,00	49,4975	72,00	67,55	66,81	3,879	3,851	3,807	3,736
29	72,50	51,2652	74,50	70,04	69,31	3,879	3,850	3,807	3,735
30	75,00	53,0330	77,00	72,54	71,81	3,879	3,850	3,806	3,734
31	77,50	54,8008	79,50	75,04	74,31	3,878	3,849	3,806	3,733
32	80,00	56,5685	82,00	77,54	76,81	3,878	3,849	3,805	3,732
33	82,50	58,3363	84,50	80,04	79,30	3,878	3,849	3,805	3,731
34	85,00	60,1041	87,00	82,54	81,80	3,878	3,848	3,804	3,730
35	87,50	61,8718	89,50	85,04	84,30	3,878	3,848	3,803	3,729
36	90,00	63,6396	92,00	87,54	86,80	3,877	3,848	3,803	3,729
37	92,50	65,4074	94,50	90,03	89,30	3,877	3,847	3,802	3,728
38	95,00	67,1751	97,00	92,53	91,80	3,877	3,847	3,802	3,727
39	97,50	68,9429	99,50	95,03	94,30	3,877	3,847	3,801	3,726
40	100,00	70,7107	102,00	97,53	96,80	3,877	3,846	3,801	3,725
41	102,50	72,4784	104,50	100,03	99,30	3,876	3,846	3,800	3,724
42	105,00	74,2462	107,00	102,53	101,80	3,876	3,846	3,800	3,724
43	107,50	76,0140	109,50	105,03	104,30	3,876	3,845	3,799	3,723
44	110,00	77,7817	112,00	107,53	106,80	3,876	3,845	3,799	3,722
45	112,50	79,5495	114,50	110,03	109,29	3,876	3,845	3,798	3,721
46	115,00	81,3173	117,00	112,53	111,79	3,875	3,844	3,798	3,721
47	117,50	83,0850	119,50	115,03	114,29	3,875	3,844	3,798	3,720
48	120,00	84,8528	122,00	117,53	116,79	3,875	3,844	3,797	3,719
49	122,50	86,6206	124,50	120,03	119,29	3,875	3,844	3,797	3,718
50	125,00	88,3883	127,00	122,53	121,79	3,875	3,843	3,796	3,718
51	127,50	90,1561	129,50	125,02	124,29	3,875	3,843	3,796	3,717
52	130,00	91,9239	132,00	127,52	126,79	3,874	3,843	3,795	3,716
53	132,50	93,6916	134,50	130,02	129,29	3,874	3,842	3,795	3,716
54	135,00	95,4594	137,00	132,52	131,79	3,874	3,842	3,795	3,715
55	137,50	97,2272	139,50	135,02	134,29	3,874	3,842	3,794	3,714
56	140,00	98,9949	142,00	137,52	136,79	3,874	3,842	3,794	3,714
57	142,50	100,7627	144,50	140,02	139,29	3,874	3,841	3,793	3,713
58	145,00	102,5305	147,00	142,52	141,79	3,873	3,841	3,793	3,712
59	147,50	104,2983	149,50	145,02	144,28	3,873	3,841	3,792	3,712
60	150,00	106,0660	152,00	147,52	146,78	3,873	3,841	3,792	3,711
61	152,50	107,8338	154,50	150,02	149,28	3,873	3,840	3,792	3,711
62	155,00	109,6016	157,00	152,52	151,78	3,873	3,840	3,791	3,710
63	157,50	111,3693	159,50	155,02	154,28	3,873	3,840	3,791	3,709
64	160,00	113,1371	162,00	157,52	156,78	3,872	3,840	3,791	3,709
65	162,50	114,9049	164,50	160,02	159,28	3,872	3,839	3,790	3,708
66	165,00	116,6726	167,00	162,52	161,78	3,872	3,839	3,790	3,707
67	167,50	118,4404	169,50	165,02	164,28	3,872	3,839	3,789	3,707
68	170,00	120,2082	172,00	167,52	166,78	3,872	3,839	3,789	3,706
69	172,50	121,9759	174,50	170,02	169,28	3,872	3,838	3,789	3,706
70	175,00	123,7437	177,00	172,52	171,78	3,872	3,838	3,788	3,705
71	177,50	125,5115	179,50	175,02	174,28	3,871	3,838	3,788	3,705
72	180,00	127,2792	182,00	177,52	176,78	3,871	3,838	3,788	3,704
73	182,50	129,0470	184,50	180,02	179,28	3,871	3,838	3,787	3,703
74	185,00	130,8148	187,00	182,52	181,78	3,871	3,837	3,787	3,703
75	187,50	132,5825	189,50	185,02	184,28	3,871	3,837	3,787	3,702
76	190,00	134,3503	192,00	187,52	186,77	3,871	3,837	3,786	3,702
77	192,50	136,1181	194,50	190,02	189,27	3,871	3,837	3,786	3,701
78	195,00	137,8858	197,00	192,52	191,77	3,870	3,836	3,785	3,701
79	197,50	139,6536	199,50	195,02	194,27	3,870	3,836	3,785	3,700
80	200,00	141,4214	202,00	197,52	196,77	3,870	3,836	3,785	3,700
81	202,50	143,1891	204,50	200,02	199,27	3,870	3,836	3,784	3,699
82	205,00	144,9569	207,00	202,52	201,77	3,870	3,836	3,784	3,698
83	207,50	146,7247	209,50	205,02	204,27	3,870	3,835	3,784	3,698
84	210,00	148,4924	212,00	207,52	206,77	3,870	3,835	3,783	3,697
85	212,50	150,2602	214,50	210,01	209,27	3,869	3,835	3,783	3,697
86	215,00	152,0280	217,00	212,51	211,77	3,869	3,835	3,783	3,696
87	217,50	153,7957	219,50	215,01	214,27	3,869	3,835	3,783	3,696
88	220,00	155,5635	222,00	217,51	216,77	3,869	3,834	3,782	3,695
89	222,50	157,3313	224,50	220,01	219,27	3,869	3,834	3,782	3,695
90	225,00	159,0990	227,00	222,51	221,77	3,869	3,834	3,782	3,694
91	227,50	160,8668	229,50	225,01	224,27	3,869	3,834	3,781	3,694
92	230,00	162,6346	232,00	227,51	226,77	3,869	3,834	3,781	3,693
93	232,50	164,4023	234,50	230,01	229,27	3,868	3,833	3,781	3,693
94	235,00	166,1701	237,00	232,51	231,77	3,868	3,833	3,780	3,692
95	237,50	167,9379	239,50	235,01	234,26	3,868	3,833	3,780	3,692
96	240,00	169,7056	242,00	237,51	236,76	3,868	3,833	3,780	3,691
97	242,50	171,4734	244,50	240,01	239,26	3,868	3,833	3,779	3,691
98	245,00	173,2412	247,00	242,51	241,76	3,868	3,832	3,779	3,690
99	247,50	175,0089	249,50	245,01	244,26	3,868	3,832	3,779	3,690
100	250,00	176,7767	252,00	247,51	246,76	3,868	3,832	3,778	3,689

Table 147 — Inspection dimensions internal spline, $\alpha = 45°$, $m = 2{,}5$, $E_{v\,min} = 3{,}927$

z	D_{Ri}	Measurement between balls or pins, M_{Ri} (checking of dimensions E_{min} and E_{max}) for tolerance classes								K_i
		4H		5H		6H		7H		
		min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	min. (aux.)	max.	
6	4,50	7,734	7,769	7,743	7,803	7,757	7,853	7,780	7,934	1,355
7	4,75	9,234	9,269	9,244	9,302	9,258	9,350	9,280	9,430	1,312
8	4,75	12,175	12,207	12,184	12,239	12,197	12,286	12,219	12,363	1,256
9	5,00	13,743	13,775	13,752	13,807	13,766	13,854	13,787	13,931	1,241
10	5,00	16,585	16,617	16,594	16,647	16,608	16,694	16,629	16,770	1,212
11	5,00	18,878	18,908	18,887	18,938	18,900	18,983	18,921	19,058	1,167
12	5,00	21,653	21,683	21,662	21,713	21,675	21,757	21,696	21,832	1,155
13	5,00	23,963	23,992	23,972	24,022	23,985	24,066	24,006	24,139	1,128
14	5,30	25,909	25,938	25,918	25,969	25,932	26,014	25,953	26,089	1,150
15	5,30	28,246	28,275	28,255	28,305	28,268	28,350	28,290	28,424	1,128
16	5,30	30,949	30,978	30,958	31,008	30,972	31,053	30,993	31,127	1,122
17	5,30	33,299	33,327	33,308	33,357	33,322	33,402	33,343	33,476	1,107
18	5,30	35,977	36,006	35,987	36,036	36,001	36,081	36,022	36,155	1,103
19	5,30	38,340	38,368	38,349	38,398	38,363	38,442	38,385	38,517	1,092
20	5,30	40,999	41,028	41,009	41,057	41,023	41,102	41,045	41,177	1,089
21	5,30	43,372	43,400	43,382	43,430	43,396	43,475	43,418	43,549	1,081
22	5,30	46,017	46,044	46,026	46,074	46,041	46,119	46,063	46,194	1,079
23	5,30	48,398	48,426	48,408	48,456	48,423	48,501	48,445	48,576	1,072
24	5,30	51,030	51,058	51,041	51,088	51,055	51,133	51,077	51,209	1,071
25	5,30	53,420	53,448	53,431	53,478	53,445	53,523	53,468	53,598	1,065
26	5,30	56,042	56,069	56,052	56,100	56,067	56,145	56,090	56,220	1,064
27	5,30	58,439	58,466	58,449	58,496	58,464	58,542	58,487	58,617	1,059
28	5,30	61,052	61,079	61,062	61,109	61,077	61,155	61,100	61,231	1,058
29	5,30	63,455	63,482	63,465	63,512	63,480	63,558	63,504	63,634	1,054
30	5,30	66,060	66,087	66,071	66,117	66,086	66,163	66,109	66,240	1,054
31	5,30	68,469	68,496	68,480	68,526	68,495	68,572	68,518	68,649	1,050
32	5,30	71,067	71,094	71,078	71,125	71,093	71,171	71,117	71,248	1,050
33	5,60	72,734	72,761	72,745	72,792	72,761	72,839	72,785	72,916	1,054
34	5,60	75,327	75,354	75,338	75,385	75,354	75,432	75,378	75,509	1,053
35	5,60	77,746	77,773	77,758	77,804	77,773	77,851	77,798	77,929	1,050
36	5,60	80,334	80,361	80,345	80,392	80,361	80,439	80,386	80,517	1,050
37	5,60	82,757	82,784	82,769	82,815	82,785	82,862	82,809	82,941	1,047
38	5,60	85,340	85,367	85,351	85,398	85,368	85,445	85,393	85,524	1,046
39	5,60	87,767	87,794	87,779	87,825	87,795	87,872	87,820	87,951	1,044
40	5,60	90,346	90,372	90,357	90,404	90,374	90,451	90,399	90,530	1,044
41	5,60	92,776	92,802	92,788	92,834	92,804	92,882	92,830	92,961	1,042
42	5,60	95,351	95,377	95,362	95,409	95,379	95,456	95,405	95,536	1,041
43	5,60	97,784	97,810	97,796	97,842	97,813	97,890	97,838	97,969	1,040
44	5,60	100,355	100,381	100,367	100,413	100,384	100,461	100,410	100,541	1,039
45	5,60	102,791	102,817	102,803	102,849	102,820	102,898	102,846	102,978	1,038
46	5,60	105,359	105,385	105,372	105,418	105,389	105,466	105,415	105,546	1,037
47	5,60	107,798	107,824	107,810	107,856	107,827	107,905	107,854	107,985	1,036
48	5,60	110,363	110,389	110,375	110,421	110,393	110,470	110,419	110,551	1,035
49	5,60	112,804	112,830	112,816	112,862	112,834	112,911	112,861	112,992	1,034
50	5,60	115,367	115,393	115,379	115,425	115,397	115,474	115,424	115,555	1,034
51	5,60	117,810	117,836	117,822	117,868	117,840	117,917	117,867	117,998	1,033
52	5,60	120,370	120,396	120,383	120,428	120,400	120,477	120,427	120,559	1,032
53	5,60	122,815	122,841	122,828	122,873	122,846	122,923	122,873	123,004	1,031
54	5,60	125,373	125,399	125,386	125,431	125,404	125,481	125,431	125,563	1,031
55	5,60	127,820	127,846	127,833	127,878	127,851	127,928	127,878	128,010	1,030
56	5,60	130,376	130,401	130,389	130,434	130,407	130,484	130,435	130,566	1,030
57	5,60	132,825	132,850	132,838	132,883	132,856	132,933	132,884	133,015	1,029
58	5,60	135,379	135,404	135,391	135,437	135,410	135,487	135,438	135,570	1,029
59	5,60	137,829	137,854	137,842	137,887	137,860	137,937	137,889	138,020	1,028
60	5,60	140,381	140,406	140,394	140,440	140,413	140,489	140,441	140,573	1,028
61	5,60	142,833	142,858	142,846	142,891	142,865	142,942	142,893	143,025	1,027
62	5,60	145,383	145,408	145,397	145,442	145,415	145,492	145,444	145,576	1,027
63	5,60	147,837	147,862	147,850	147,895	147,869	147,946	147,898	148,029	1,026
64	5,60	150,385	150,411	150,399	150,444	150,418	150,495	150,447	150,579	1,026
65	5,60	152,840	152,865	152,854	152,899	152,873	152,949	152,902	153,034	1,025
66	5,60	155,388	155,412	155,401	155,446	155,420	155,497	155,450	155,581	1,025
67	5,60	157,844	157,868	157,857	157,902	157,876	157,953	157,906	158,038	1,024
68	5,60	160,389	160,414	160,403	160,448	160,423	160,499	160,452	160,584	1,024
69	5,60	162,847	162,872	162,861	162,906	162,880	162,957	162,910	163,042	1,023
70	5,60	165,391	165,416	165,405	165,450	165,425	165,501	165,455	165,586	1,023
71	5,60	167,850	167,874	167,864	167,909	167,883	167,960	167,913	168,045	1,023
72	5,60	170,393	170,418	170,407	170,452	170,427	170,503	170,457	170,589	1,023
73	5,60	172,853	172,877	172,867	172,912	172,886	172,963	172,917	173,049	1,022
74	5,60	175,395	175,419	175,409	175,454	175,429	175,505	175,459	175,591	1,022
75	5,60	177,855	177,880	177,870	177,914	177,890	177,966	177,920	178,052	1,021
76	5,60	180,396	180,421	180,411	180,455	180,431	180,507	180,462	180,594	1,021
77	5,60	182,858	182,882	182,872	182,917	182,892	182,969	182,923	183,055	1,021
78	5,60	185,398	185,422	185,412	185,457	185,433	185,509	185,464	185,596	1,021
79	5,60	187,860	187,885	187,875	187,919	187,895	187,972	187,926	188,058	1,020
80	5,60	190,399	190,424	190,414	190,458	190,434	190,511	190,466	190,598	1,020
81	5,60	192,863	192,887	192,877	192,922	192,898	192,974	192,929	193,061	1,020
82	5,60	195,401	195,425	195,415	195,460	195,436	195,512	195,468	195,600	1,020
83	5,60	197,865	197,889	197,880	197,924	197,900	197,977	197,932	198,064	1,019
84	5,60	200,402	200,426	200,417	200,461	200,438	200,514	200,470	200,602	1,019
85	5,60	202,867	202,891	202,882	202,926	202,903	202,979	202,935	203,067	1,019
86	5,60	205,403	205,427	205,418	205,463	205,439	205,516	205,471	205,604	1,019
87	5,60	207,869	207,893	207,884	207,929	207,905	207,982	207,938	208,070	1,018
88	5,60	210,405	210,429	210,420	210,464	210,441	210,517	210,473	210,606	1,018
89	5,60	212,871	212,895	212,886	212,931	212,908	212,984	212,940	213,072	1,018
90	5,60	215,406	215,430	215,421	215,465	215,442	215,519	215,475	215,607	1,018
91	5,60	217,873	217,897	217,888	217,933	217,910	217,986	217,943	218,075	1,017
92	5,60	220,407	220,431	220,422	220,466	220,444	220,520	220,477	220,609	1,017
93	5,60	222,875	222,899	222,890	222,934	222,912	222,988	222,945	223,077	1,017
94	5,60	225,408	225,432	225,423	225,468	225,445	225,521	225,478	225,611	1,017
95	5,60	227,877	227,900	227,892	227,936	227,914	227,990	227,947	228,080	1,017
96	5,60	230,409	230,433	230,425	230,469	230,447	230,523	230,480	230,613	1,017
97	5,60	232,878	232,902	232,894	232,938	232,916	232,992	232,950	233,082	1,016
98	5,60	235,410	235,434	235,426	235,470	235,448	235,524	235,482	235,614	1,016
99	5,60	237,880	237,904	237,896	237,940	237,918	237,994	237,952	238,084	1,016
100	5,60	240,411	240,435	240,427	240,471	240,449	240,525	240,483	240,616	1,016

Table 148 — Inspection dimensions external spline, $\alpha = 45°$, $m = 2{,}5$, $S_{v\,max} = 3{,}927$

z	D_{Re}	Measurement over balls or pins, M_{Re} (checking of dimensions S_{min} and S_{max}) for tolerance classes								K_e
		4h		5h		6h		7h		
		min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	min.	max. (aux.)	
6	8,00	29,452	29,473	29,433	29,467	29,404	29,459	29,355	29,446	0,815
7	7,50	30,350	30,371	30,331	30,365	30,301	30,357	30,252	30,344	0,813
8	7,10	32,613	32,635	32,592	32,628	32,561	32,620	32,508	32,605	0,851
9	7,10	34,727	34,749	34,706	34,742	34,674	34,733	34,622	34,719	0,847
10	6,70	36,796	36,818	36,774	36,812	36,741	36,802	36,686	36,787	0,875
11	6,70	38,990	39,012	38,968	39,006	38,934	38,996	38,879	38,981	0,873
12	6,70	41,845	41,868	41,822	41,861	41,788	41,851	41,731	41,835	0,889
13	6,70	44,090	44,113	44,068	44,106	44,033	44,096	43,975	44,080	0,888
14	6,30	45,973	45,997	45,950	45,989	45,914	45,979	45,855	45,962	0,906
15	6,30	48,256	48,279	48,232	48,272	48,196	48,261	48,136	48,244	0,906
16	6,30	50,999	51,023	50,975	51,015	50,938	51,004	50,877	50,987	0,915
17	6,30	53,309	53,332	53,284	53,324	53,247	53,313	53,186	53,296	0,915
18	6,30	56,020	56,044	55,995	56,036	55,958	56,024	55,896	56,006	0,922
19	6,30	58,351	58,374	58,326	58,366	58,288	58,355	58,225	58,337	0,922
20	6,30	61,037	61,061	61,012	61,053	60,974	61,041	60,910	61,023	0,928
21	6,30	63,385	63,409	63,359	63,400	63,321	63,388	63,257	63,370	0,928
22	6,00	65,356	65,380	65,330	65,371	65,291	65,359	65,226	65,340	0,938
23	6,00	67,717	67,741	67,691	67,733	67,652	67,720	67,587	67,701	0,938
24	6,00	70,367	70,391	70,340	70,382	70,301	70,369	70,235	70,350	0,942
25	6,00	72,739	72,763	72,713	72,755	72,673	72,742	72,607	72,722	0,942
26	6,00	75,376	75,400	75,349	75,391	75,309	75,378	75,242	75,358	0,945
27	6,00	77,758	77,782	77,731	77,773	77,691	77,760	77,623	77,740	0,945
28	6,00	80,384	80,408	80,357	80,399	80,316	80,385	80,248	80,365	0,949
29	6,00	82,775	82,799	82,747	82,789	82,706	82,776	82,638	82,755	0,949
30	6,00	85,391	85,415	85,363	85,405	85,322	85,392	85,253	85,371	0,952
31	6,00	87,789	87,813	87,761	87,803	87,720	87,790	87,650	87,768	0,952
32	6,00	90,397	90,421	90,369	90,411	90,327	90,398	90,257	90,376	0,954
33	6,00	92,801	92,826	92,773	92,816	92,731	92,802	92,661	92,780	0,954
34	6,00	95,402	95,427	95,374	95,417	95,332	95,403	95,261	95,381	0,956
35	6,00	97,812	97,837	97,784	97,827	97,742	97,812	97,671	97,790	0,957
36	6,00	100,407	100,432	100,379	100,421	100,336	100,407	100,265	100,385	0,959
37	6,00	102,822	102,847	102,794	102,836	102,751	102,822	102,679	102,799	0,959
38	6,00	105,412	105,436	105,383	105,426	105,340	105,411	105,268	105,388	0,960
39	6,00	107,831	107,855	107,802	107,845	107,759	107,830	107,686	107,807	0,961
40	6,00	110,416	110,440	110,387	110,429	110,343	110,414	110,270	110,391	0,962
41	6,00	112,839	112,863	112,810	112,853	112,766	112,838	112,693	112,814	0,962
42	6,00	115,419	115,444	115,390	115,433	115,346	115,417	115,272	115,394	0,964
43	6,00	117,846	117,871	117,817	117,860	117,773	117,844	117,699	117,820	0,964
44	6,00	120,423	120,447	120,393	120,436	120,349	120,420	120,274	120,396	0,965
45	6,00	122,853	122,877	122,823	122,866	122,779	122,850	122,704	122,826	0,965
46	6,00	125,426	125,450	125,396	125,439	125,351	125,423	125,276	125,398	0,967
47	6,00	127,859	127,883	127,829	127,872	127,784	127,856	127,709	127,831	0,967
48	6,00	130,428	130,453	130,398	130,441	130,353	130,425	130,278	130,400	0,968
49	6,00	132,865	132,889	132,834	132,877	132,789	132,861	132,713	132,836	0,968
50	6,00	135,431	135,455	135,401	135,444	135,355	135,427	135,279	135,402	0,969
51	6,00	137,870	137,894	137,839	137,882	137,793	137,866	137,717	137,840	0,969
52	6,00	140,433	140,457	140,403	140,446	140,357	140,429	140,280	140,404	0,970
53	6,00	142,874	142,898	142,844	142,886	142,797	142,870	142,721	142,844	0,970
54	6,00	145,435	145,459	145,405	145,448	145,358	145,431	145,281	145,405	0,971
55	6,00	147,879	147,903	147,848	147,891	147,801	147,874	147,724	147,848	0,971
56	6,00	150,437	150,461	150,406	150,449	150,360	150,432	150,282	150,406	0,972
57	6,00	152,883	152,907	152,851	152,894	152,805	152,877	152,727	152,851	0,972
58	6,00	155,439	155,463	155,408	155,451	155,361	155,434	155,283	155,407	0,973
59	6,00	157,886	157,910	157,855	157,898	157,808	157,881	157,729	157,854	0,973
60	6,00	160,441	160,465	160,410	160,453	160,362	160,435	160,284	160,408	0,974
61	6,00	162,890	162,914	162,858	162,901	162,811	162,884	162,732	162,857	0,974
62	6,00	165,443	165,467	165,411	165,454	165,363	165,436	165,284	165,409	0,974
63	6,00	167,893	167,917	167,861	167,904	167,814	167,886	167,734	167,859	0,975
64	6,00	170,444	170,468	170,412	170,455	170,364	170,437	170,285	170,410	0,975
65	6,00	172,896	172,920	172,864	172,907	172,816	172,889	172,736	172,861	0,975
66	6,00	175,446	175,469	175,413	175,456	175,365	175,438	175,285	175,410	0,976
67	6,00	177,899	177,923	177,867	177,910	177,818	177,891	177,738	177,863	0,976
68	6,00	180,447	180,471	180,415	180,458	180,366	180,439	180,285	180,411	0,977
69	6,00	182,902	182,925	182,869	182,912	182,821	182,894	182,740	182,865	0,977
70	6,00	185,448	185,472	185,416	185,459	185,367	185,440	185,286	185,411	0,977
71	6,00	187,904	187,928	187,872	187,914	187,823	187,896	187,741	187,867	0,977
72	6,00	190,449	190,473	190,417	190,459	190,368	190,441	190,286	190,412	0,978
73	6,00	192,907	192,930	192,874	192,917	192,825	192,898	192,743	192,869	0,978
74	6,00	195,450	195,474	195,417	195,460	195,368	195,441	195,286	195,412	0,978
75	6,00	197,909	197,932	197,876	197,919	197,826	197,900	197,744	197,870	0,978
76	6,00	200,451	200,475	200,418	200,461	200,369	200,442	200,286	200,412	0,979
77	6,00	202,911	202,934	202,878	202,921	202,828	202,901	202,745	202,872	0,979
78	6,00	205,452	205,476	205,419	205,462	205,369	205,442	205,286	205,413	0,979
79	6,00	207,913	207,936	207,880	207,922	207,830	207,903	207,746	207,873	0,979
80	6,00	210,453	210,477	210,420	210,463	210,370	210,443	210,286	210,413	0,980
81	6,00	212,915	212,938	212,881	212,924	212,831	212,904	212,747	212,874	0,980
82	6,00	215,454	215,477	215,421	215,463	215,370	215,443	215,286	215,413	0,980
83	6,00	217,917	217,940	217,883	217,926	217,832	217,906	217,748	217,875	0,980
84	6,00	220,455	220,478	220,421	220,464	220,371	220,444	220,286	220,413	0,981
85	6,00	222,918	222,941	222,884	222,927	222,834	222,907	222,749	222,876	0,981
86	6,00	225,456	225,479	225,422	225,464	225,371	225,444	225,286	225,413	0,981
87	6,00	227,920	227,943	227,886	227,929	227,835	227,908	227,750	227,877	0,981
88	6,00	230,456	230,480	230,422	230,465	230,371	230,445	230,286	230,413	0,982
89	6,00	232,921	232,945	232,887	232,930	232,836	232,909	232,751	232,878	0,982
90	6,00	235,457	235,480	235,423	235,466	235,371	235,445	235,286	235,413	0,982
91	6,00	237,923	237,946	237,889	237,931	237,837	237,910	237,751	237,879	0,982
92	6,00	240,458	240,481	240,423	240,466	240,372	240,445	240,286	240,413	0,982
93	6,00	242,924	242,947	242,890	242,932	242,838	242,911	242,752	242,880	0,982
94	6,00	245,458	245,481	245,424	245,466	245,372	245,445	245,285	245,413	0,983
95	6,00	247,926	247,949	247,891	247,934	247,839	247,912	247,752	247,880	0,983
96	6,00	250,459	250,482	250,424	250,467	250,372	250,446	250,285	250,413	0,983
97	6,00	252,927	252,950	252,892	252,935	252,840	252,913	252,753	252,881	0,983
98	6,00	255,460	255,482	255,425	255,467	255,372	255,446	255,285	255,413	0,983
99	6,00	257,928	257,951	257,893	257,936	257,841	257,914	257,753	257,881	0,983
100	6,00	260,460	260,483	260,425	260,467	260,372	260,446	260,285	260,413	0,984

Annex A
(informative)

Inspection dimensions for span measurement

The span measurement of the tooth width over k teeth is complicated and sometimes not possible, due to low tooth height and relatively large pressure angle. The verification of calculated values by measurement can also be impossible in practice as the contact points can lie outside the involute spline geometry. For detailed information, see ISO 4156-3:2005, 9.2.

Table A.1 — Inspection dimensions W, $\alpha = 30°$, $m = 0{,}5$, $S_{v\,max} = 0{,}785$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	2,160	2,171	2,148	2,167	2,130	2,161	2,100	2,151	2
7	2,183	2,195	2,171	2,190	2,153	2,184	2,122	2,174	2
8	2,206	2,218	2,194	2,213	2,175	2,207	2,144	2,197	2
9	3,589	3,601	3,577	3,597	3,558	3,590	3,527	3,580	3
10	3,613	3,624	3,600	3,620	3,581	3,613	3,549	3,603	3
11	3,636	3,647	3,623	3,643	3,604	3,636	3,572	3,626	3
12	3,659	3,671	3,646	3,666	3,626	3,659	3,594	3,649	3
13	3,682	3,694	3,669	3,689	3,649	3,682	3,616	3,672	3
14	3,705	3,717	3,692	3,712	3,672	3,706	3,639	3,695	3
15	5,088	5,100	5,075	5,096	5,055	5,089	5,022	5,078	4
16	5,111	5,123	5,098	5,119	5,078	5,112	5,045	5,101	4
17	5,134	5,147	5,121	5,142	5,101	5,135	5,067	5,124	4
18	5,158	5,170	5,144	5,165	5,124	5,158	5,090	5,147	4
19	5,181	5,193	5,167	5,188	5,147	5,181	5,112	5,170	4
20	5,204	5,216	5,190	5,211	5,169	5,204	5,135	5,193	4
21	6,587	6,600	6,573	6,595	6,553	6,588	6,518	6,576	5
22	6,610	6,623	6,597	6,618	6,576	6,611	6,541	6,599	5
23	6,634	6,646	6,620	6,641	6,599	6,634	6,564	6,622	5
24	6,657	6,669	6,643	6,664	6,622	6,657	6,586	6,645	5
25	6,680	6,692	6,666	6,687	6,645	6,680	6,609	6,668	5
26	6,703	6,715	6,689	6,710	6,668	6,703	6,632	6,691	5
27	8,087	8,099	8,072	8,094	8,051	8,086	8,015	8,075	6
28	8,110	8,122	8,095	8,117	8,074	8,110	8,038	8,098	6
29	8,133	8,145	8,118	8,140	8,097	8,133	8,061	8,121	6
30	8,156	8,169	8,142	8,163	8,120	8,156	8,084	8,144	6
31	8,179	8,192	8,165	8,186	8,143	8,179	8,106	8,167	6
32	8,202	8,215	8,188	8,210	8,166	8,202	8,129	8,190	6
33	9,586	9,598	9,571	9,593	9,549	9,585	9,512	9,573	7
34	9,609	9,622	9,594	9,616	9,572	9,608	9,535	9,596	7
35	9,632	9,645	9,617	9,639	9,595	9,632	9,558	9,619	7
36	9,655	9,668	9,641	9,662	9,618	9,655	9,581	9,642	7
37	9,679	9,691	9,664	9,686	9,641	9,678	9,604	9,665	7
38	11,062	11,075	11,047	11,069	11,025	11,061	10,987	11,049	8
39	11,085	11,098	11,070	11,092	11,048	11,084	11,010	11,072	8
40	11,108	11,121	11,093	11,115	11,071	11,107	11,033	11,095	8
41	11,132	11,144	11,116	11,139	11,094	11,131	11,056	11,118	8
42	11,155	11,167	11,140	11,162	11,117	11,154	11,079	11,141	8
43	11,178	11,191	11,163	11,185	11,140	11,177	11,102	11,164	8
44	12,562	12,574	12,546	12,568	12,523	12,560	12,485	12,547	9
45	12,585	12,597	12,569	12,592	12,546	12,583	12,508	12,570	9
46	12,608	12,621	12,593	12,615	12,569	12,607	12,531	12,593	9
47	12,631	12,644	12,616	12,638	12,592	12,630	12,554	12,616	9
48	12,654	12,667	12,639	12,661	12,616	12,653	12,577	12,640	9
49	12,678	12,690	12,662	12,684	12,639	12,676	12,600	12,663	9
50	14,061	14,074	14,045	14,068	14,022	14,059	13,983	14,046	10
51	14,084	14,097	14,069	14,091	14,045	14,083	14,006	14,069	10
52	14,107	14,120	14,092	14,114	14,068	14,106	14,029	14,092	10
53	14,131	14,143	14,115	14,137	14,091	14,129	14,052	14,115	10
54	14,154	14,167	14,138	14,160	14,114	14,152	14,075	14,138	10
55	14,177	14,190	14,161	14,184	14,137	14,175	14,098	14,161	10
56	15,561	15,573	15,545	15,567	15,521	15,559	15,481	15,545	11
57	15,584	15,597	15,568	15,590	15,544	15,582	15,504	15,568	11
58	15,607	15,620	15,591	15,614	15,567	15,605	15,527	15,591	11
59	15,630	15,643	15,614	15,637	15,590	15,628	15,550	15,614	11
60	15,653	15,666	15,637	15,660	15,613	15,651	15,573	15,637	11
61	15,677	15,689	15,660	15,683	15,636	15,674	15,596	15,660	11
62	17,060	17,073	17,044	17,067	17,020	17,058	16,979	17,044	12
63	17,083	17,096	17,067	17,090	17,043	17,081	17,002	17,067	12
64	17,107	17,119	17,090	17,113	17,066	17,104	17,025	17,090	12
65	17,130	17,143	17,113	17,136	17,089	17,127	17,048	17,113	12
66	17,153	17,166	17,137	17,159	17,112	17,150	17,071	17,136	12
67	17,176	17,189	17,160	17,183	17,135	17,173	17,094	17,159	12
68	18,560	18,572	18,543	18,566	18,519	18,557	18,478	18,543	13
69	18,583	18,596	18,567	18,589	18,542	18,580	18,501	18,566	13
70	18,606	18,619	18,590	18,612	18,565	18,603	18,524	18,589	13
71	18,629	18,642	18,613	18,636	18,588	18,626	18,547	18,612	13
72	18,653	18,665	18,636	18,659	18,611	18,650	18,570	18,635	13
73	18,676	18,689	18,659	18,682	18,634	18,673	18,593	18,658	13
74	20,059	20,072	20,043	20,065	20,018	20,056	19,976	20,042	14
75	20,083	20,095	20,066	20,089	20,041	20,079	19,999	20,065	14
76	20,106	20,119	20,089	20,112	20,064	20,103	20,022	20,088	14
77	20,129	20,142	20,112	20,135	20,087	20,126	20,045	20,111	14
78	20,152	20,165	20,135	20,158	20,110	20,149	20,068	20,134	14
79	20,175	20,188	20,159	20,181	20,133	20,172	20,091	20,157	14
80	21,559	21,572	21,542	21,565	21,517	21,555	21,475	21,541	15
81	21,582	21,595	21,565	21,588	21,540	21,579	21,498	21,564	15
82	21,605	21,618	21,589	21,611	21,563	21,602	21,521	21,587	15
83	21,629	21,641	21,612	21,635	21,586	21,625	21,544	21,610	15
84	21,652	21,665	21,635	21,658	21,609	21,648	21,567	21,633	15
85	21,675	21,688	21,658	21,681	21,633	21,671	21,590	21,656	15
86	23,059	23,071	23,042	23,064	23,016	23,055	22,973	23,040	16
87	23,082	23,095	23,065	23,088	23,039	23,078	22,996	23,063	16
88	23,105	23,118	23,088	23,111	23,062	23,101	23,019	23,086	16
89	23,128	23,141	23,111	23,134	23,085	23,124	23,042	23,109	16
90	23,152	23,164	23,134	23,157	23,109	23,147	23,066	23,132	16
91	23,175	23,187	23,158	23,180	23,132	23,171	23,089	23,155	16
92	24,558	24,571	24,541	24,564	24,515	24,554	24,472	24,539	17
93	24,582	24,594	24,564	24,587	24,538	24,577	24,495	24,562	17
94	24,605	24,617	24,587	24,610	24,561	24,600	24,518	24,585	17
95	24,628	24,641	24,611	24,634	24,585	24,624	24,541	24,608	17
96	24,651	24,664	24,634	24,657	24,608	24,647	24,564	24,631	17
97	24,674	24,687	24,657	24,680	24,631	24,670	24,587	24,654	17
98	26,058	26,071	26,041	26,063	26,014	26,053	25,971	26,038	18
99	26,081	26,094	26,064	26,087	26,037	26,077	25,994	26,061	18
100	26,104	26,117	26,087	26,110	26,061	26,100	26,017	26,084	18

Table A.2 — Inspection dimensions W, $\alpha = 30°$, $m = 0{,}75$, $S_{v\,max} = 1{,}178$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	3,247	3,261	3,233	3,256	3,213	3,250	3,178	3,239	2
7	3,282	3,296	3,268	3,291	3,247	3,284	3,212	3,274	2
8	3,316	3,330	3,302	3,326	3,281	3,319	3,246	3,308	2
9	5,392	5,406	5,377	5,401	5,356	5,394	5,320	5,383	3
10	5,426	5,440	5,412	5,436	5,390	5,429	5,354	5,417	3
11	5,461	5,475	5,446	5,470	5,424	5,463	5,388	5,452	3
12	5,496	5,510	5,481	5,505	5,459	5,498	5,422	5,486	3
13	5,530	5,545	5,515	5,540	5,493	5,532	5,456	5,521	3
14	5,565	5,579	5,550	5,574	5,527	5,567	5,490	5,555	3
15	7,640	7,655	7,625	7,649	7,602	7,642	7,564	7,630	4
16	7,675	7,689	7,660	7,684	7,637	7,677	7,598	7,665	4
17	7,710	7,724	7,694	7,719	7,671	7,711	7,632	7,699	4
18	7,744	7,759	7,729	7,754	7,706	7,746	7,667	7,734	4
19	7,779	7,794	7,763	7,788	7,740	7,781	7,701	7,768	4
20	7,814	7,828	7,798	7,823	7,774	7,815	7,735	7,803	4
21	9,889	9,904	9,873	9,898	9,850	9,890	9,810	9,878	5
22	9,924	9,938	9,908	9,933	9,884	9,925	9,844	9,913	5
23	9,959	9,973	9,943	9,968	9,919	9,960	9,878	9,947	5
24	9,993	10,008	9,977	10,002	9,953	9,994	9,913	9,982	5
25	10,028	10,043	10,012	10,037	9,988	10,029	9,947	10,016	5
26	12,103	12,118	12,087	12,112	12,063	12,104	12,022	12,091	6
27	12,138	12,153	12,122	12,147	12,097	12,139	12,056	12,126	6
28	12,173	12,188	12,157	12,182	12,132	12,174	12,091	12,161	6
29	12,208	12,222	12,191	12,217	12,166	12,208	12,125	12,195	6
30	12,243	12,257	12,226	12,251	12,201	12,243	12,159	12,230	6
31	12,277	12,292	12,261	12,286	12,236	12,278	12,194	12,264	6
32	14,353	14,367	14,336	14,361	14,311	14,353	14,269	14,340	7
33	14,387	14,402	14,371	14,396	14,345	14,388	14,303	14,374	7
34	14,422	14,437	14,405	14,431	14,380	14,422	14,338	14,409	7
35	14,457	14,472	14,440	14,466	14,415	14,457	14,372	14,443	7
36	14,492	14,507	14,475	14,500	14,449	14,492	14,407	14,478	7
37	14,527	14,541	14,510	14,535	14,484	14,526	14,441	14,513	7
38	16,602	16,617	16,585	16,610	16,559	16,602	16,516	16,588	8
39	16,637	16,651	16,619	16,645	16,594	16,636	16,550	16,622	8
40	16,672	16,686	16,654	16,680	16,628	16,671	16,585	16,657	8
41	16,706	16,721	16,689	16,715	16,663	16,706	16,619	16,692	8
42	16,741	16,756	16,724	16,750	16,698	16,741	16,654	16,726	8
43	16,776	16,791	16,758	16,784	16,732	16,775	16,688	16,761	8
44	18,851	18,866	18,834	18,860	18,807	18,850	18,763	18,836	9
45	18,886	18,901	18,868	18,894	18,842	18,885	18,798	18,871	9
46	18,921	18,936	18,903	18,929	18,877	18,920	18,832	18,905	9
47	18,956	18,971	18,938	18,964	18,911	18,955	18,867	18,940	9
48	18,991	19,005	18,973	18,999	18,946	18,989	18,902	18,975	9
49	19,025	19,040	19,008	19,033	18,981	19,024	18,936	19,009	9
50	21,101	21,115	21,083	21,109	21,056	21,099	21,011	21,084	10
51	21,136	21,150	21,118	21,144	21,091	21,134	21,046	21,119	10
52	21,170	21,185	21,152	21,178	21,125	21,169	21,080	21,154	10
53	21,205	21,220	21,187	21,213	21,160	21,204	21,115	21,188	10
54	21,240	21,255	21,222	21,248	21,195	21,238	21,149	21,223	10
55	21,275	21,290	21,257	21,283	21,229	21,273	21,184	21,258	10
56	23,350	23,365	23,332	23,358	23,305	23,348	23,259	23,333	11
57	23,385	23,400	23,367	23,393	23,339	23,383	23,294	23,368	11
58	23,420	23,435	23,401	23,428	23,374	23,418	23,328	23,402	11
59	23,455	23,469	23,436	23,462	23,409	23,452	23,363	23,437	11
60	23,490	23,504	23,471	23,497	23,443	23,487	23,397	23,472	11
61	23,524	23,539	23,506	23,532	23,478	23,522	23,432	23,506	11
62	25,600	25,614	25,581	25,607	25,553	25,597	25,507	25,582	12
63	25,635	25,649	25,616	25,642	25,588	25,632	25,542	25,616	12
64	25,669	25,684	25,651	25,677	25,623	25,667	25,576	25,651	12
65	25,704	25,719	25,685	25,712	25,657	25,701	25,611	25,686	12
66	25,739	25,754	25,720	25,746	25,692	25,736	25,645	25,720	12
67	25,774	25,789	25,755	25,781	25,727	25,771	25,680	25,755	12
68	27,849	27,864	27,830	27,857	27,802	27,846	27,755	27,830	13
69	27,884	27,899	27,865	27,891	27,837	27,881	27,790	27,865	13
70	27,919	27,934	27,900	27,926	27,872	27,916	27,824	27,900	13
71	27,954	27,968	27,935	27,961	27,906	27,951	27,859	27,934	13
72	27,989	28,003	27,970	27,996	27,941	27,985	27,893	27,969	13
73	28,023	28,038	28,004	28,031	27,976	28,020	27,928	28,004	13
74	30,099	30,113	30,080	30,106	30,051	30,095	30,003	30,079	14
75	30,134	30,148	30,114	30,141	30,086	30,130	30,038	30,114	14
76	30,168	30,183	30,149	30,175	30,120	30,165	30,072	30,148	14
77	30,203	30,218	30,184	30,210	30,155	30,200	30,107	30,183	14
78	30,238	30,253	30,219	30,245	30,190	30,234	30,142	30,218	14
79	30,273	30,288	30,254	30,280	30,225	30,269	30,176	30,252	14
80	32,348	32,363	32,329	32,355	32,300	32,344	32,251	32,328	15
81	32,383	32,398	32,364	32,390	32,335	32,379	32,286	32,362	15
82	32,418	32,433	32,399	32,425	32,369	32,414	32,321	32,397	15
83	32,453	32,467	32,433	32,460	32,404	32,449	32,355	32,432	15
84	32,488	32,502	32,468	32,494	32,439	32,483	32,390	32,466	15
85	32,523	32,537	32,503	32,529	32,474	32,518	32,425	32,501	15
86	34,598	34,612	34,578	34,605	34,549	34,593	34,500	34,576	16
87	34,633	34,647	34,613	34,639	34,584	34,628	34,534	34,611	16
88	34,668	34,682	34,648	34,674	34,618	34,663	34,569	34,646	16
89	34,702	34,717	34,683	34,709	34,653	34,698	34,604	34,680	16
90	34,737	34,752	34,718	34,744	34,688	34,733	34,638	34,715	16
91	34,772	34,787	34,752	34,779	34,723	34,767	34,673	34,750	16
92	36,848	36,862	36,828	36,854	36,798	36,843	36,748	36,825	17
93	36,882	36,897	36,862	36,889	36,833	36,877	36,783	36,860	17
94	36,917	36,932	36,897	36,924	36,867	36,912	36,818	36,894	17
95	36,952	36,967	36,932	36,958	36,902	36,947	36,852	36,929	17
96	36,987	37,001	36,967	36,993	36,937	36,982	36,887	36,964	17
97	37,022	37,036	37,002	37,028	36,972	37,016	36,922	36,999	17
98	39,097	39,112	39,077	39,103	39,047	39,092	38,997	39,074	18
99	39,132	39,146	39,112	39,138	39,082	39,127	39,031	39,109	18
100	39,167	39,181	39,147	39,173	39,116	39,161	39,066	39,143	18

Table A.3 — Inspection dimensions W, $\alpha = 30°$, $m = 1$, $S_{V\,max} = 1{,}571$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	4,335	4,350	4,320	4,346	4,297	4,339	4,259	4,328	2
7	4,381	4,397	4,366	4,392	4,343	4,385	4,304	4,374	2
8	4,427	4,443	4,412	4,438	4,388	4,431	4,349	4,420	2
9	7,194	7,210	7,179	7,205	7,155	7,198	7,115	7,186	3
10	7,241	7,256	7,225	7,251	7,201	7,244	7,161	7,232	3
11	7,287	7,303	7,271	7,298	7,246	7,290	7,206	7,278	3
12	7,333	7,349	7,317	7,344	7,292	7,336	7,252	7,324	3
13	7,379	7,395	7,363	7,390	7,338	7,383	7,297	7,370	3
14	7,426	7,442	7,409	7,436	7,384	7,429	7,343	7,416	3
15	10,193	10,209	10,176	10,203	10,151	10,196	10,109	10,183	4
16	10,239	10,255	10,222	10,250	10,197	10,242	10,155	10,229	4
17	10,285	10,302	10,268	10,296	10,243	10,288	10,200	10,275	4
18	10,332	10,348	10,315	10,342	10,289	10,334	10,246	10,321	4
19	10,378	10,394	10,361	10,389	10,335	10,380	10,292	10,367	4
20	10,425	10,441	10,407	10,435	10,381	10,427	10,338	10,414	4
21	13,192	13,208	13,174	13,202	13,148	13,194	13,104	13,180	5
22	13,238	13,254	13,220	13,248	13,194	13,240	13,150	13,226	5
23	13,284	13,301	13,267	13,295	13,240	13,286	13,196	13,273	5
24	13,331	13,347	13,313	13,341	13,286	13,332	13,242	13,319	5
25	13,377	13,393	13,359	13,387	13,332	13,379	13,288	13,365	5
26	13,424	13,440	13,406	13,434	13,379	13,425	13,334	13,411	5
27	16,191	16,207	16,173	16,201	16,145	16,192	16,100	16,178	6
28	16,237	16,253	16,219	16,247	16,192	16,238	16,146	16,224	6
29	16,283	16,300	16,265	16,293	16,238	16,284	16,192	16,270	6
30	16,330	16,346	16,311	16,340	16,284	16,331	16,238	16,316	6
31	16,376	16,393	16,358	16,386	16,330	16,377	16,284	16,363	6
32	19,143	19,160	19,125	19,153	19,097	19,144	19,051	19,130	7
33	19,190	19,206	19,171	19,200	19,143	19,190	19,097	19,176	7
34	19,236	19,252	19,217	19,246	19,190	19,237	19,143	19,222	7
35	19,283	19,299	19,264	19,292	19,236	19,283	19,189	19,268	7
36	19,329	19,345	19,310	19,339	19,282	19,329	19,235	19,314	7
37	19,375	19,392	19,357	19,385	19,328	19,376	19,281	19,361	7
38	22,143	22,159	22,124	22,152	22,095	22,143	22,048	22,127	8
39	22,189	22,205	22,170	22,198	22,141	22,189	22,094	22,174	8
40	22,235	22,252	22,216	22,245	22,188	22,235	22,140	22,220	8
41	22,282	22,298	22,263	22,291	22,234	22,281	22,186	22,266	8
42	22,328	22,345	22,309	22,338	22,280	22,328	22,232	22,312	8
43	22,375	22,391	22,355	22,384	22,326	22,374	22,278	22,359	8
44	25,142	25,158	25,122	25,151	25,093	25,141	25,045	25,125	9
45	25,188	25,205	25,169	25,197	25,140	25,187	25,091	25,172	9
46	25,235	25,251	25,215	25,244	25,186	25,234	25,137	25,218	9
47	25,281	25,297	25,262	25,290	25,232	25,280	25,183	25,264	9
48	25,328	25,344	25,308	25,337	25,278	25,326	25,229	25,310	9
49	25,374	25,390	25,354	25,383	25,325	25,373	25,275	25,357	9
50	28,141	28,157	28,121	28,150	28,092	28,140	28,042	28,124	10
51	28,188	28,204	28,168	28,197	28,138	28,186	28,088	28,170	10
52	28,234	28,250	28,214	28,243	28,184	28,232	28,135	28,216	10
53	28,281	28,297	28,261	28,289	28,231	28,279	28,181	28,262	10
54	28,327	28,343	28,307	28,336	28,277	28,325	28,227	28,309	10
55	28,373	28,390	28,353	28,382	28,323	28,371	28,273	28,355	10
56	31,141	31,157	31,120	31,149	31,090	31,139	31,040	31,122	11
57	31,187	31,203	31,167	31,196	31,137	31,185	31,086	31,168	11
58	31,233	31,250	31,213	31,242	31,183	31,231	31,132	31,214	11
59	31,280	31,296	31,260	31,288	31,229	31,278	31,178	31,261	11
60	31,326	31,343	31,306	31,335	31,275	31,324	31,225	31,307	11
61	31,373	31,389	31,352	31,381	31,322	31,370	31,271	31,353	11
62	34,140	34,156	34,120	34,148	34,089	34,137	34,038	34,120	12
63	34,186	34,203	34,166	34,195	34,135	34,184	34,084	34,166	12
64	34,233	34,249	34,212	34,241	34,181	34,230	34,130	34,213	12
65	34,279	34,296	34,259	34,288	34,228	34,276	34,176	34,259	12
66	34,326	34,342	34,305	34,334	34,274	34,323	34,222	34,305	12
67	34,372	34,388	34,352	34,380	34,320	34,369	34,269	34,351	12
68	37,139	37,156	37,119	37,147	37,087	37,136	37,035	37,118	13
69	37,186	37,202	37,165	37,194	37,134	37,182	37,082	37,165	13
70	37,232	37,248	37,212	37,240	37,180	37,229	37,128	37,211	13
71	37,279	37,295	37,258	37,287	37,226	37,275	37,174	37,257	13
72	37,325	37,341	37,304	37,333	37,273	37,322	37,220	37,304	13
73	37,372	37,388	37,351	37,380	37,319	37,368	37,267	37,350	13
74	40,139	40,155	40,118	40,147	40,086	40,135	40,033	40,117	14
75	40,185	40,201	40,164	40,193	40,133	40,181	40,080	40,163	14
76	40,232	40,248	40,211	40,240	40,179	40,228	40,126	40,209	14
77	40,278	40,294	40,257	40,286	40,225	40,274	40,172	40,256	14
78	40,325	40,341	40,304	40,332	40,272	40,320	40,218	40,302	14
79	40,371	40,387	40,350	40,379	40,318	40,367	40,265	40,348	14
80	43,138	43,154	43,117	43,146	43,085	43,134	43,032	43,115	15
81	43,185	43,201	43,164	43,192	43,131	43,180	43,078	43,162	15
82	43,231	43,247	43,210	43,239	43,178	43,227	43,124	43,208	15
83	43,278	43,294	43,256	43,285	43,224	43,273	43,170	43,254	15
84	43,324	43,340	43,303	43,332	43,270	43,319	43,216	43,301	15
85	43,371	43,387	43,349	43,378	43,317	43,366	43,263	43,347	15
86	46,138	46,154	46,116	46,145	46,084	46,133	46,030	46,114	16
87	46,185	46,200	46,163	46,192	46,130	46,179	46,076	46,160	16
88	46,231	46,247	46,209	46,238	46,177	46,226	46,122	46,206	16
89	46,277	46,293	46,256	46,284	46,223	46,272	46,168	46,253	16
90	46,324	46,340	46,302	46,331	46,269	46,318	46,215	46,299	16
91	46,370	46,386	46,349	46,377	46,316	46,365	46,261	46,345	16
92	49,138	49,153	49,116	49,144	49,083	49,132	49,028	49,112	17
93	49,184	49,200	49,162	49,191	49,129	49,178	49,074	49,159	17
94	49,231	49,246	49,209	49,237	49,175	49,225	49,120	49,205	17
95	49,277	49,293	49,255	49,284	49,222	49,271	49,167	49,251	17
96	49,323	49,339	49,301	49,330	49,268	49,317	49,213	49,298	17
97	49,370	49,386	49,348	49,377	49,315	49,364	49,259	49,344	17
98	52,137	52,153	52,115	52,144	52,082	52,131	52,026	52,111	18
99	52,184	52,199	52,161	52,190	52,128	52,177	52,072	52,157	18
100	52,230	52,246	52,208	52,237	52,174	52,224	52,119	52,204	18

Table A.4 — Inspection dimensions W, $\alpha = 30°$, $m = 1{,}25$, $S_{v\,max} = 1{,}963$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	5,423	5,440	5,407	5,435	5,382	5,428	5,341	5,416	2
7	5,481	5,498	5,464	5,493	5,439	5,486	5,398	5,474	2
8	5,539	5,556	5,522	5,551	5,497	5,543	5,455	5,531	2
9	8,997	9,015	8,980	9,009	8,955	9,002	8,912	8,990	3
10	9,055	9,073	9,038	9,067	9,012	9,060	8,969	9,047	3
11	9,113	9,131	9,096	9,125	9,070	9,117	9,026	9,105	3
12	9,171	9,188	9,154	9,183	9,127	9,175	9,083	9,162	3
13	9,229	9,246	9,211	9,241	9,185	9,233	9,140	9,220	3
14	9,287	9,304	9,269	9,299	9,242	9,291	9,197	9,277	3
15	12,746	12,763	12,728	12,757	12,701	12,749	12,655	12,736	4
16	12,804	12,821	12,786	12,815	12,758	12,807	12,713	12,794	4
17	12,862	12,879	12,843	12,873	12,816	12,865	12,770	12,851	4
18	12,920	12,937	12,901	12,931	12,873	12,923	12,827	12,909	4
19	12,978	12,995	12,959	12,989	12,931	12,980	12,885	12,967	4
20	13,036	13,053	13,017	13,047	12,989	13,038	12,942	13,024	4
21	16,494	16,512	16,476	16,506	16,447	16,497	16,400	16,483	5
22	16,552	16,570	16,534	16,564	16,505	16,555	16,458	16,541	5
23	16,610	16,628	16,591	16,622	16,563	16,613	16,515	16,598	5
24	16,668	16,686	16,649	16,680	16,621	16,671	16,573	16,656	5
25	16,726	16,744	16,707	16,738	16,678	16,728	16,630	16,714	5
26	16,785	16,802	16,765	16,796	16,736	16,786	16,688	16,772	5
27	20,243	20,261	20,224	20,254	20,195	20,245	20,146	20,230	6
28	20,301	20,319	20,282	20,312	20,252	20,303	20,204	20,288	6
29	20,359	20,377	20,340	20,370	20,310	20,361	20,261	20,346	6
30	20,417	20,435	20,398	20,428	20,368	20,419	20,319	20,403	6
31	20,476	20,493	20,456	20,486	20,426	20,477	20,376	20,461	6
32	20,534	20,551	20,514	20,544	20,484	20,534	20,434	20,519	6
33	23,992	24,010	23,972	24,003	23,942	23,993	23,892	23,978	7
34	24,051	24,068	24,030	24,061	24,000	24,051	23,950	24,035	7
35	24,109	24,126	24,088	24,119	24,058	24,109	24,007	24,093	7
36	24,167	24,184	24,146	24,177	24,116	24,167	24,065	24,151	7
37	24,225	24,242	24,204	24,235	24,174	24,225	24,123	24,209	7
38	24,283	24,300	24,262	24,293	24,232	24,283	24,180	24,267	7
39	27,742	27,759	27,721	27,752	27,690	27,742	27,639	27,725	8
40	27,800	27,817	27,779	27,810	27,748	27,799	27,697	27,783	8
41	27,858	27,875	27,837	27,868	27,806	27,857	27,754	27,841	8
42	27,916	27,933	27,895	27,926	27,864	27,915	27,812	27,899	8
43	27,974	27,991	27,953	27,984	27,922	27,973	27,870	27,957	8
44	31,433	31,450	31,412	31,443	31,380	31,432	31,328	31,415	9
45	31,491	31,508	31,470	31,501	31,438	31,490	31,386	31,473	9
46	31,549	31,566	31,528	31,559	31,496	31,548	31,444	31,531	9
47	31,607	31,625	31,586	31,617	31,554	31,606	31,501	31,589	9
48	31,665	31,683	31,644	31,675	31,612	31,664	31,559	31,647	9
49	31,723	31,741	31,702	31,733	31,670	31,722	31,617	31,704	9
50	35,182	35,200	35,161	35,192	35,129	35,180	35,075	35,163	10
51	35,240	35,258	35,219	35,250	35,187	35,238	35,133	35,221	10
52	35,298	35,316	35,277	35,308	35,245	35,296	35,191	35,279	10
53	35,356	35,374	35,335	35,366	35,302	35,354	35,249	35,337	10
54	35,414	35,432	35,393	35,424	35,360	35,412	35,306	35,394	10
55	35,472	35,490	35,451	35,482	35,418	35,470	35,364	35,452	10
56	38,931	38,949	38,910	38,941	38,877	38,929	38,823	38,911	11
57	38,990	39,007	38,968	38,999	38,935	38,987	38,880	38,969	11
58	39,048	39,065	39,026	39,057	38,993	39,045	38,938	39,027	11
59	39,106	39,123	39,084	39,115	39,051	39,103	38,996	39,085	11
60	39,164	39,181	39,142	39,173	39,109	39,161	39,054	39,143	11
61	39,222	39,239	39,200	39,231	39,167	39,219	39,112	39,200	11
62	42,681	42,698	42,659	42,690	42,625	42,678	42,570	42,659	12
63	42,739	42,756	42,717	42,748	42,683	42,736	42,628	42,717	12
64	42,797	42,814	42,775	42,806	42,741	42,794	42,686	42,775	12
65	42,855	42,872	42,833	42,864	42,799	42,852	42,744	42,833	12
66	42,913	42,930	42,891	42,922	42,857	42,910	42,801	42,891	12
67	42,971	42,989	42,949	42,980	42,915	42,968	42,859	42,949	12
68	46,430	46,447	46,408	46,439	46,374	46,426	46,318	46,407	13
69	46,488	46,506	46,466	46,497	46,432	46,484	46,376	46,465	13
70	46,546	46,564	46,524	46,555	46,490	46,542	46,433	46,523	13
71	46,605	46,622	46,582	46,613	46,548	46,600	46,491	46,581	13
72	46,663	46,680	46,640	46,671	46,606	46,658	46,549	46,639	13
73	46,721	46,738	46,698	46,729	46,664	46,716	46,607	46,697	13
74	50,180	50,197	50,157	50,188	50,123	50,175	50,066	50,155	14
75	50,238	50,255	50,215	50,246	50,181	50,233	50,123	50,213	14
76	50,296	50,313	50,273	50,304	50,239	50,291	50,181	50,271	14
77	50,354	50,371	50,331	50,362	50,297	50,349	50,239	50,329	14
78	50,412	50,429	50,389	50,420	50,355	50,407	50,297	50,387	14
79	50,470	50,487	50,447	50,478	50,412	50,465	50,355	50,445	14
80	53,929	53,946	53,906	53,937	53,871	53,924	53,814	53,904	15
81	53,987	54,004	53,964	53,995	53,929	53,982	53,871	53,962	15
82	54,045	54,062	54,022	54,053	53,987	54,040	53,929	54,020	15
83	54,103	54,120	54,080	54,111	54,045	54,098	53,987	54,077	15
84	54,162	54,179	54,138	54,169	54,103	54,156	54,045	54,135	15
85	54,220	54,237	54,196	54,227	54,161	54,214	54,103	54,193	15
86	57,679	57,696	57,655	57,686	57,620	57,673	57,561	57,652	16
87	57,737	57,754	57,713	57,744	57,678	57,731	57,619	57,710	16
88	57,795	57,812	57,771	57,802	57,736	57,789	57,677	57,768	16
89	57,853	57,870	57,829	57,860	57,794	57,847	57,735	57,826	16
90	57,911	57,928	57,887	57,918	57,852	57,905	57,793	57,884	16
91	57,969	57,986	57,945	57,976	57,910	57,963	57,851	57,942	16
92	61,428	61,445	61,404	61,435	61,369	61,422	61,310	61,400	17
93	61,486	61,503	61,462	61,493	61,427	61,480	61,367	61,458	17
94	61,544	61,561	61,521	61,551	61,485	61,538	61,425	61,516	17
95	61,602	61,619	61,579	61,609	61,543	61,596	61,483	61,574	17
96	61,661	61,677	61,637	61,667	61,601	61,654	61,541	61,632	17
97	61,719	61,736	61,695	61,726	61,659	61,712	61,599	61,690	17
98	65,178	65,194	65,154	65,184	65,118	65,170	65,058	65,149	18
99	65,236	65,253	65,212	65,243	65,176	65,228	65,116	65,207	18
100	65,294	65,311	65,270	65,301	65,234	65,286	65,173	65,265	18

Table A.5 — Inspection dimensions W, $\alpha = 30°$, $m = 1{,}5$, $S_{v\,max} = 2{,}356$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	6,512	6,530	6,494	6,524	6,468	6,517	6,424	6,505	2
7	6,581	6,599	6,563	6,594	6,537	6,586	6,493	6,574	2
8	6,650	6,669	6,632	6,663	6,606	6,655	6,561	6,643	2
9	10,801	10,819	10,783	10,814	10,755	10,806	10,710	10,793	3
10	10,870	10,889	10,852	10,883	10,824	10,875	10,779	10,862	3
11	10,940	10,958	10,921	10,953	10,893	10,944	10,847	10,931	3
12	11,009	11,028	10,991	11,022	10,963	11,014	10,916	11,000	3
13	11,079	11,098	11,060	11,092	11,032	11,083	10,984	11,070	3
14	11,148	11,167	11,129	11,161	11,101	11,153	11,053	11,139	3
15	15,299	15,318	15,280	15,312	15,251	15,303	15,203	15,289	4
16	15,369	15,387	15,349	15,381	15,320	15,372	15,272	15,358	4
17	15,438	15,457	15,419	15,451	15,389	15,442	15,341	15,428	4
18	15,508	15,527	15,488	15,520	15,459	15,511	15,410	15,497	4
19	15,577	15,596	15,558	15,590	15,528	15,581	15,478	15,566	4
20	15,647	15,666	15,627	15,659	15,597	15,650	15,547	15,635	4
21	19,798	19,816	19,778	19,810	19,748	19,800	19,697	19,786	5
22	19,867	19,886	19,847	19,879	19,817	19,870	19,766	19,855	5
23	19,937	19,956	19,917	19,949	19,886	19,939	19,835	19,924	5
24	20,007	20,025	19,986	20,019	19,956	20,009	19,905	19,994	5
25	20,076	20,095	20,056	20,088	20,025	20,078	19,974	20,063	5
26	20,146	20,165	20,125	20,158	20,094	20,148	20,043	20,132	5
27	24,296	24,315	24,276	24,308	24,245	24,298	24,193	24,283	6
28	24,366	24,385	24,345	24,378	24,314	24,368	24,262	24,352	6
29	24,436	24,455	24,415	24,447	24,383	24,437	24,331	24,421	6
30	24,505	24,524	24,484	24,517	24,453	24,507	24,400	24,491	6
31	24,575	24,594	24,554	24,587	24,522	24,576	24,469	24,560	6
32	24,645	24,664	24,624	24,656	24,592	24,646	24,539	24,629	6
33	28,795	28,814	28,774	28,807	28,742	28,796	28,689	28,780	7
34	28,865	28,884	28,844	28,876	28,812	28,866	28,758	28,849	7
35	28,935	28,954	28,913	28,946	28,881	28,935	28,827	28,919	7
36	29,005	29,023	28,983	29,016	28,950	29,005	28,896	28,988	7
37	29,074	29,093	29,052	29,085	29,020	29,074	28,966	29,057	7
38	29,144	29,163	29,122	29,155	29,089	29,144	29,035	29,127	7
39	33,295	33,313	33,273	33,305	33,240	33,294	33,185	33,277	8
40	33,364	33,383	33,342	33,375	33,309	33,364	33,254	33,347	8
41	33,434	33,453	33,412	33,445	33,379	33,433	33,324	33,416	8
42	33,504	33,522	33,482	33,514	33,448	33,503	33,393	33,485	8
43	33,573	33,592	33,551	33,584	33,518	33,573	33,462	33,555	8
44	33,643	33,662	33,621	33,654	33,587	33,642	33,532	33,624	8
45	37,794	37,812	37,771	37,804	37,738	37,793	37,682	37,775	9
46	37,863	37,882	37,841	37,874	37,807	37,862	37,751	37,844	9
47	37,933	37,952	37,911	37,943	37,877	37,932	37,821	37,914	9
48	38,003	38,021	37,980	38,013	37,946	38,001	37,890	37,983	9
49	38,073	38,091	38,050	38,083	38,016	38,071	37,959	38,052	9
50	38,142	38,161	38,120	38,152	38,085	38,140	38,029	38,122	9
51	42,293	42,312	42,270	42,303	42,236	42,291	42,179	42,272	10
52	42,363	42,381	42,340	42,373	42,305	42,361	42,248	42,342	10
53	42,432	42,451	42,409	42,442	42,375	42,430	42,318	42,411	10
54	42,502	42,521	42,479	42,512	42,445	42,500	42,387	42,481	10
55	42,572	42,590	42,549	42,582	42,514	42,569	42,456	42,550	10
56	46,723	46,741	46,699	46,732	46,665	46,720	46,607	46,701	11
57	46,792	46,811	46,769	46,802	46,734	46,789	46,676	46,770	11
58	46,862	46,880	46,839	46,872	46,804	46,859	46,745	46,840	11
59	46,932	46,950	46,908	46,941	46,873	46,929	46,815	46,909	11
60	47,001	47,020	46,978	47,011	46,943	46,998	46,884	46,979	11
61	47,071	47,090	47,048	47,080	47,012	47,068	46,954	47,048	11
62	51,222	51,240	51,198	51,231	51,163	51,218	51,104	51,199	12
63	51,292	51,310	51,268	51,301	51,233	51,288	51,173	51,268	12
64	51,361	51,380	51,338	51,370	51,302	51,358	51,243	51,337	12
65	51,431	51,449	51,407	51,440	51,372	51,427	51,312	51,407	12
66	51,501	51,519	51,477	51,510	51,441	51,497	51,382	51,476	12
67	51,571	51,589	51,547	51,579	51,511	51,566	51,451	51,546	12
68	55,721	55,740	55,697	55,730	55,661	55,717	55,602	55,696	13
69	55,791	55,809	55,767	55,800	55,731	55,786	55,671	55,766	13
70	55,861	55,879	55,837	55,869	55,801	55,856	55,740	55,835	13
71	55,930	55,949	55,906	55,939	55,870	55,926	55,810	55,905	13
72	56,000	56,018	55,976	56,009	55,940	55,995	55,879	55,974	13
73	56,070	56,088	56,046	56,078	56,009	56,065	55,949	56,044	13
74	60,221	60,239	60,196	60,229	60,160	60,215	60,099	60,194	14
75	60,290	60,309	60,266	60,299	60,230	60,285	60,169	60,264	14
76	60,360	60,378	60,336	60,368	60,299	60,355	60,238	60,333	14
77	60,430	60,448	60,405	60,438	60,369	60,424	60,307	60,403	14
78	60,500	60,518	60,475	60,508	60,438	60,494	60,377	60,473	14
79	60,569	60,587	60,545	60,577	60,508	60,563	60,446	60,542	14
80	64,720	64,738	64,695	64,728	64,659	64,714	64,597	64,693	15
81	64,790	64,808	64,765	64,798	64,728	64,784	64,666	64,762	15
82	64,860	64,878	64,835	64,867	64,798	64,853	64,736	64,832	15
83	64,929	64,947	64,905	64,937	64,867	64,923	64,805	64,901	15
84	64,999	65,017	64,974	65,007	64,937	64,993	64,875	64,971	15
85	65,069	65,087	65,044	65,077	65,006	65,062	64,944	65,040	15
86	69,220	69,237	69,195	69,227	69,157	69,213	69,095	69,191	16
87	69,289	69,307	69,264	69,297	69,227	69,282	69,164	69,260	16
88	69,359	69,377	69,334	69,367	69,296	69,352	69,234	69,330	16
89	69,429	69,447	69,404	69,436	69,366	69,422	69,303	69,399	16
90	69,499	69,516	69,473	69,506	69,436	69,491	69,373	69,469	16
91	69,568	69,586	69,543	69,576	69,505	69,561	69,442	69,538	16
92	73,719	73,737	73,694	73,726	73,656	73,712	73,593	73,689	17
93	73,789	73,807	73,763	73,796	73,725	73,781	73,662	73,758	17
94	73,859	73,876	73,833	73,866	73,795	73,851	73,732	73,828	17
95	73,928	73,946	73,903	73,935	73,865	73,920	73,801	73,898	17
96	73,998	74,016	73,973	74,005	73,934	73,990	73,871	73,967	17
97	74,068	74,085	74,042	74,075	74,004	74,060	73,940	74,037	17
98	78,219	78,236	78,193	78,225	78,155	78,210	78,091	78,187	18
99	78,288	78,306	78,263	78,295	78,224	78,280	78,160	78,257	18
100	78,358	78,376	78,332	78,365	78,294	78,350	78,230	78,326	18

Table A.6 — Inspection dimensions W, $\alpha = 30°$, $m = 1{,}75$, $S_{v\,max} = 2{,}749$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	7,600	7,619	7,582	7,614	7,554	7,606	7,508	7,594	2
7	7,681	7,700	7,662	7,695	7,635	7,687	7,588	7,674	2
8	7,762	7,782	7,743	7,776	7,715	7,768	7,668	7,755	2
9	12,604	12,624	12,585	12,618	12,557	12,610	12,509	12,597	3
10	12,685	12,705	12,666	12,699	12,637	12,691	12,589	12,677	3
11	12,767	12,786	12,747	12,780	12,718	12,772	12,669	12,758	3
12	12,848	12,867	12,828	12,861	12,798	12,853	12,749	12,839	3
13	12,929	12,949	12,909	12,942	12,879	12,934	12,829	12,919	3
14	13,010	13,030	12,990	13,024	12,960	13,015	12,910	13,000	3
15	17,852	17,872	17,832	17,866	17,802	17,857	17,751	17,842	4
16	17,934	17,953	17,913	17,947	17,883	17,938	17,832	17,923	4
17	18,015	18,035	17,994	18,028	17,963	18,019	17,912	18,004	4
18	18,096	18,116	18,075	18,109	18,044	18,100	17,993	18,085	4
19	18,177	18,197	18,156	18,190	18,125	18,181	18,073	18,166	4
20	18,259	18,278	18,238	18,272	18,206	18,262	18,154	18,246	4
21	23,101	23,121	23,080	23,114	23,048	23,104	22,995	23,089	5
22	23,182	23,202	23,161	23,195	23,129	23,185	23,076	23,169	5
23	23,264	23,283	23,242	23,276	23,210	23,266	23,157	23,250	5
24	23,345	23,365	23,323	23,357	23,291	23,347	23,237	23,331	5
25	23,426	23,446	23,404	23,439	23,372	23,428	23,318	23,412	5
26	23,507	23,527	23,486	23,520	23,453	23,509	23,399	23,493	5
27	28,350	28,370	28,328	28,362	28,295	28,352	28,241	28,335	6
28	28,431	28,451	28,409	28,443	28,376	28,433	28,321	28,416	6
29	28,512	28,532	28,490	28,525	28,457	28,514	28,402	28,497	6
30	28,594	28,613	28,571	28,606	28,538	28,595	28,483	28,578	6
31	28,675	28,695	28,653	28,687	28,619	28,676	28,563	28,659	6
32	28,756	28,776	28,734	28,768	28,700	28,757	28,644	28,740	6
33	33,599	33,618	33,576	33,611	33,542	33,599	33,486	33,582	7
34	33,680	33,700	33,657	33,692	33,624	33,681	33,567	33,663	7
35	33,761	33,781	33,739	33,773	33,705	33,762	33,648	33,744	7
36	33,843	33,862	33,820	33,854	33,786	33,843	33,729	33,825	7
37	33,924	33,944	33,901	33,935	33,867	33,924	33,810	33,906	7
38	34,005	34,025	33,982	34,017	33,948	34,005	33,890	33,987	7
39	38,848	38,867	38,825	38,859	38,790	38,847	38,732	38,829	8
40	38,929	38,949	38,906	38,940	38,871	38,929	38,813	38,910	8
41	39,010	39,030	38,987	39,022	38,952	39,010	38,894	38,991	8
42	39,092	39,111	39,068	39,103	39,033	39,091	38,975	39,072	8
43	39,173	39,193	39,150	39,184	39,114	39,172	39,056	39,153	8
44	39,254	39,274	39,231	39,265	39,196	39,253	39,137	39,234	8
45	44,097	44,116	44,073	44,108	44,038	44,096	43,979	44,077	9
47	44,260	44,279	44,236	44,270	44,200	44,258	44,141	44,239	9
48	44,341	44,360	44,317	44,352	44,281	44,339	44,222	44,320	9
49	44,422	44,442	44,398	44,433	44,362	44,420	44,303	44,401	9
50	44,504	44,523	44,480	44,514	44,444	44,501	44,384	44,482	9
51	49,346	49,366	49,322	49,356	49,286	49,344	49,226	49,324	10
52	49,427	49,447	49,403	49,438	49,367	49,425	49,307	49,405	10
53	49,509	49,528	49,485	49,519	49,448	49,506	49,388	49,486	10
54	49,590	49,609	49,566	49,600	49,529	49,587	49,469	49,567	10
55	49,671	49,691	49,647	49,682	49,611	49,668	49,550	49,648	10
56	49,753	49,772	49,728	49,763	49,692	49,750	49,631	49,729	10
57	54,595	54,615	54,571	54,605	54,534	54,592	54,473	54,572	11
58	54,677	54,696	54,652	54,687	54,615	54,673	54,554	54,653	11
59	54,758	54,777	54,733	54,768	54,696	54,754	54,635	54,734	11
60	54,839	54,859	54,815	54,849	54,778	54,836	54,716	54,815	11
61	54,921	54,940	54,896	54,930	54,859	54,917	54,797	54,896	11
62	55,002	55,021	54,977	55,012	54,940	54,998	54,878	54,977	11
63	59,845	59,864	59,820	59,854	59,782	59,840	59,720	59,819	12
64	59,926	59,945	59,901	59,935	59,863	59,922	59,801	59,900	12
65	60,007	60,026	59,982	60,017	59,945	60,003	59,882	59,981	12
66	60,089	60,108	60,064	60,098	60,026	60,084	59,963	60,063	12
67	60,170	60,189	60,145	60,179	60,107	60,165	60,044	60,144	12
68	65,013	65,032	64,987	65,022	64,949	65,008	64,886	64,986	13
69	65,094	65,113	65,069	65,103	65,031	65,089	64,967	65,067	13
70	65,175	65,194	65,150	65,184	65,112	65,170	65,048	65,148	13
71	65,257	65,276	65,231	65,266	65,193	65,251	65,129	65,229	13
72	65,338	65,357	65,313	65,347	65,274	65,332	65,210	65,310	13
73	65,419	65,438	65,394	65,428	65,355	65,414	65,291	65,391	13
74	70,262	70,281	70,236	70,271	70,198	70,256	70,134	70,234	14
75	70,343	70,362	70,318	70,352	70,279	70,337	70,215	70,315	14
76	70,425	70,444	70,399	70,433	70,360	70,419	70,296	70,396	14
77	70,506	70,525	70,480	70,514	70,441	70,500	70,377	70,477	14
78	70,587	70,606	70,562	70,596	70,523	70,581	70,458	70,558	14
79	70,669	70,688	70,643	70,677	70,604	70,662	70,539	70,639	14
80	75,511	75,530	75,485	75,520	75,446	75,505	75,381	75,482	15
81	75,593	75,612	75,567	75,601	75,528	75,586	75,462	75,563	15
82	75,674	75,693	75,648	75,682	75,609	75,667	75,543	75,644	15
83	75,755	75,774	75,729	75,763	75,690	75,748	75,624	75,725	15
84	75,837	75,856	75,811	75,845	75,771	75,830	75,706	75,806	15
85	75,918	75,937	75,892	75,926	75,852	75,911	75,787	75,887	15
86	80,761	80,779	80,734	80,769	80,695	80,753	80,629	80,730	16
87	80,842	80,861	80,816	80,850	80,776	80,834	80,710	80,811	16
88	80,924	80,942	80,897	80,931	80,857	80,916	80,791	80,892	16
89	81,005	81,023	80,978	81,012	80,939	80,997	80,872	80,973	16
90	81,086	81,105	81,060	81,094	81,020	81,078	80,953	81,054	16
91	81,168	81,186	81,141	81,175	81,101	81,159	81,034	81,135	16
92	86,010	86,029	85,984	86,018	85,943	86,002	85,877	85,978	17
93	86,092	86,110	86,065	86,099	86,025	86,083	85,958	86,059	17
94	86,173	86,191	86,146	86,180	86,106	86,164	86,039	86,140	17
95	86,254	86,273	86,227	86,261	86,187	86,246	86,120	86,221	17
96	86,336	86,354	86,309	86,343	86,268	86,327	86,201	86,302	17
97	86,417	86,436	86,390	86,424	86,350	86,408	86,282	86,383	17
98	91,260	91,278	91,233	91,267	91,192	91,250	91,124	91,226	18
99	91,341	91,359	91,314	91,348	91,273	91,332	91,206	91,307	18
100	91,422	91,441	91,395	91,429	91,355	91,413	91,287	91,388	18

Table A.7 — Inspection dimensions W, $\alpha = 30°$, $m = 2$, $S_{v\,max} = 3{,}142$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	8,689	8,709	8,670	8,703	8,641	8,695	8,593	8,682	2
7	8,781	8,802	8,762	8,796	8,733	8,788	8,684	8,774	2
8	8,874	8,894	8,854	8,889	8,825	8,880	8,775	8,867	2
9	14,408	14,429	14,388	14,423	14,358	14,414	14,308	14,400	3
10	14,501	14,521	14,481	14,515	14,450	14,506	14,400	14,492	3
11	14,594	14,614	14,573	14,608	14,542	14,599	14,491	14,585	3
12	14,686	14,707	14,666	14,701	14,635	14,692	14,583	14,677	3
13	14,779	14,800	14,758	14,793	14,727	14,784	14,675	14,769	3
14	14,872	14,893	14,851	14,886	14,819	14,877	14,767	14,862	3
15	20,406	20,427	20,385	20,420	20,353	20,411	20,300	20,396	4
16	20,499	20,520	20,478	20,513	20,446	20,503	20,392	20,488	4
17	20,592	20,612	20,570	20,606	20,538	20,596	20,484	20,580	4
18	20,685	20,705	20,663	20,698	20,630	20,688	20,576	20,673	4
19	20,777	20,798	20,756	20,791	20,723	20,781	20,668	20,765	4
20	20,870	20,891	20,848	20,884	20,815	20,874	20,760	20,858	4
21	26,405	26,425	26,382	26,418	26,349	26,408	26,294	26,392	5
22	26,497	26,518	26,475	26,511	26,442	26,500	26,386	26,484	5
23	26,590	26,611	26,568	26,604	26,534	26,593	26,478	26,576	5
24	26,683	26,704	26,661	26,696	26,627	26,686	26,571	26,669	5
25	26,776	26,797	26,753	26,789	26,719	26,778	26,663	26,761	5
26	26,869	26,890	26,846	26,882	26,812	26,871	26,755	26,854	5
27	32,403	32,424	32,380	32,416	32,346	32,405	32,289	32,388	6
28	32,496	32,517	32,473	32,509	32,439	32,498	32,381	32,480	6
29	32,589	32,610	32,566	32,602	32,531	32,591	32,473	32,573	6
30	32,682	32,703	32,659	32,695	32,624	32,683	32,566	32,666	6
31	32,775	32,796	32,752	32,787	32,717	32,776	32,658	32,758	6
32	32,868	32,888	32,844	32,880	32,809	32,869	32,751	32,851	6
33	38,402	38,423	38,379	38,414	38,343	38,403	38,284	38,385	7
34	38,495	38,516	38,471	38,507	38,436	38,496	38,377	38,477	7
35	38,588	38,609	38,564	38,600	38,529	38,588	38,469	38,570	7
36	38,681	38,701	38,657	38,693	38,621	38,681	38,562	38,662	7
37	38,774	38,794	38,750	38,786	38,714	38,774	38,654	38,755	7
38	38,867	38,887	38,843	38,879	38,807	38,866	38,746	38,848	7
39	44,401	44,422	44,377	44,413	44,341	44,401	44,280	44,382	8
40	44,494	44,515	44,470	44,506	44,433	44,493	44,373	44,474	8
41	44,587	44,607	44,563	44,599	44,526	44,586	44,465	44,567	8
42	44,680	44,700	44,656	44,691	44,619	44,679	44,558	44,659	8
43	44,773	44,793	44,748	44,784	44,712	44,772	44,650	44,752	8
44	44,866	44,886	44,841	44,877	44,804	44,864	44,743	44,845	8
45	50,400	50,421	50,376	50,411	50,338	50,399	50,277	50,379	9
46	50,493	50,513	50,468	50,504	50,431	50,491	50,369	50,471	9
47	50,586	50,606	50,561	50,597	50,524	50,584	50,462	50,564	9
48	50,679	50,699	50,654	50,690	50,617	50,677	50,554	50,657	9
49	50,772	50,792	50,747	50,783	50,709	50,770	50,647	50,749	9
50	50,865	50,885	50,840	50,876	50,802	50,862	50,739	50,842	9
51	56,399	56,420	56,374	56,410	56,336	56,397	56,273	56,376	10
52	56,492	56,513	56,467	56,503	56,429	56,489	56,366	56,469	10
53	56,585	56,605	56,560	56,596	56,522	56,582	56,458	56,561	10
54	56,678	56,698	56,653	56,689	56,615	56,675	56,551	56,654	10
55	56,771	56,791	56,746	56,782	56,707	56,768	56,644	56,747	10
56	56,864	56,884	56,839	56,874	56,800	56,861	56,736	56,839	10
57	62,399	62,419	62,373	62,409	62,334	62,395	62,270	62,373	11
58	62,492	62,512	62,466	62,502	62,427	62,488	62,363	62,466	11
59	62,585	62,605	62,559	62,595	62,520	62,580	62,455	62,559	11
60	62,677	62,697	62,652	62,687	62,613	62,673	62,548	62,651	11
61	62,770	62,790	62,744	62,780	62,705	62,766	62,641	62,744	11
62	68,305	68,325	68,279	68,315	68,240	68,300	68,175	68,278	12
63	68,398	68,418	68,372	68,407	68,332	68,393	68,267	68,371	12
64	68,491	68,511	68,465	68,500	68,425	68,486	68,360	68,463	12
65	68,584	68,604	68,558	68,593	68,518	68,579	68,452	68,556	12
66	68,677	68,697	68,650	68,686	68,611	68,671	68,545	68,649	12
67	68,770	68,790	68,743	68,779	68,704	68,764	68,638	68,742	12
68	74,304	74,324	74,278	74,313	74,238	74,299	74,172	74,276	13
69	74,397	74,417	74,371	74,406	74,331	74,391	74,264	74,368	13
70	74,490	74,510	74,463	74,499	74,424	74,484	74,357	74,461	13
71	74,583	74,603	74,556	74,592	74,516	74,577	74,450	74,554	13
72	74,676	74,696	74,649	74,685	74,609	74,670	74,542	74,647	13
73	74,769	74,789	74,742	74,778	74,702	74,763	74,635	74,739	13
74	80,303	80,323	80,277	80,312	80,236	80,297	80,169	80,273	14
75	80,396	80,416	80,369	80,405	80,329	80,390	80,262	80,366	14
76	80,489	80,509	80,462	80,498	80,422	80,483	80,354	80,459	14
77	80,582	80,602	80,555	80,591	80,515	80,575	80,447	80,552	14
78	80,675	80,695	80,648	80,684	80,608	80,668	80,540	80,644	14
79	80,768	80,788	80,741	80,777	80,700	80,761	80,632	80,737	14
80	86,303	86,322	86,276	86,311	86,235	86,295	86,166	86,271	15
81	86,396	86,415	86,368	86,404	86,327	86,388	86,259	86,364	15
82	86,489	86,508	86,461	86,497	86,420	86,481	86,352	86,457	15
83	86,582	86,601	86,554	86,590	86,513	86,574	86,444	86,549	15
84	86,675	86,694	86,647	86,683	86,606	86,667	86,537	86,642	15
85	86,768	86,787	86,740	86,776	86,699	86,760	86,630	86,735	15
86	92,302	92,322	92,275	92,310	92,233	92,294	92,164	92,269	16
87	92,395	92,415	92,367	92,403	92,326	92,387	92,257	92,362	16
88	92,488	92,507	92,460	92,496	92,419	92,479	92,349	92,454	16
89	92,581	92,600	92,553	92,589	92,512	92,572	92,442	92,547	16
90	92,674	92,693	92,646	92,682	92,604	92,665	92,535	92,640	16
91	92,767	92,786	92,739	92,775	92,697	92,758	92,627	92,733	16
92	98,302	98,321	98,274	98,309	98,232	98,292	98,162	98,267	17
93	98,395	98,414	98,367	98,402	98,324	98,385	98,254	98,360	17
94	98,488	98,507	98,459	98,495	98,417	98,478	98,347	98,452	17
95	98,581	98,600	98,552	98,588	98,510	98,571	98,440	98,545	17
96	98,674	98,693	98,645	98,681	98,603	98,664	98,532	98,638	17
97	98,767	98,786	98,738	98,774	98,696	98,757	98,625	98,731	17
98	104,301	104,320	104,273	104,308	104,230	104,291	104,159	104,265	18
99	104,394	104,413	104,366	104,401	104,323	104,384	104,252	104,358	18
100	104,487	104,506	104,459	104,494	104,416	104,477	104,345	104,450	18

Table A.8 — Inspection dimensions W, $\alpha = 30°$, $m = 2{,}5$, $S_{v\,max} = 3{,}927$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	10,866	10,888	10,846	10,882	10,815	10,874	10,763	10,860	2
7	10,982	11,004	10,961	10,998	10,930	10,989	10,877	10,975	2
8	11,098	11,120	11,077	11,114	11,045	11,105	10,992	11,090	2
9	18,016	18,038	17,994	18,032	17,962	18,022	17,908	18,008	3
10	18,132	18,154	18,110	18,147	18,077	18,138	18,023	18,123	3
11	18,248	18,270	18,226	18,263	18,193	18,254	18,138	18,238	3
12	18,364	18,386	18,342	18,379	18,308	18,369	18,252	18,354	3
13	18,480	18,502	18,457	18,495	18,424	18,485	18,367	18,469	3
14	18,596	18,618	18,573	18,611	18,539	18,601	18,483	18,585	3
15	25,514	25,536	25,491	25,529	25,457	25,519	25,399	25,502	4
16	25,630	25,652	25,607	25,645	25,572	25,634	25,515	25,618	4
17	25,746	25,768	25,723	25,761	25,688	25,750	25,630	25,733	4
18	25,862	25,884	25,839	25,877	25,803	25,866	25,745	25,849	4
19	25,978	26,000	25,954	25,993	25,919	25,982	25,860	25,965	4
20	26,094	26,116	26,070	26,109	26,035	26,098	25,976	26,080	4
21	33,012	33,034	32,988	33,026	32,952	33,015	32,893	32,998	5
22	33,128	33,150	33,104	33,142	33,068	33,131	33,008	33,113	5
23	33,244	33,266	33,220	33,258	33,184	33,247	33,123	33,229	5
24	33,360	33,383	33,336	33,374	33,300	33,363	33,239	33,345	5
25	33,477	33,499	33,452	33,491	33,415	33,479	33,354	33,460	5
26	33,593	33,615	33,568	33,607	33,531	33,595	33,470	33,576	5
27	40,511	40,533	40,486	40,524	40,449	40,512	40,387	40,494	6
28	40,627	40,649	40,602	40,640	40,565	40,628	40,503	40,609	6
29	40,743	40,765	40,718	40,756	40,680	40,744	40,618	40,725	6
30	40,859	40,881	40,834	40,872	40,796	40,860	40,734	40,841	6
31	40,975	40,997	40,950	40,989	40,912	40,976	40,849	40,957	6
32	41,091	41,113	41,066	41,105	41,028	41,092	40,965	41,072	6
33	48,009	48,031	47,984	48,022	47,946	48,010	47,882	47,990	7
34	48,126	48,148	48,100	48,138	48,062	48,126	47,998	48,106	7
35	48,242	48,264	48,216	48,255	48,178	48,242	48,113	48,221	7
36	48,358	48,380	48,332	48,371	48,293	48,358	48,229	48,337	7
37	48,474	48,496	48,448	48,487	48,409	48,474	48,345	48,453	7
38	48,590	48,612	48,564	48,603	48,525	48,589	48,460	48,569	7
39	55,508	55,530	55,482	55,521	55,443	55,507	55,378	55,486	8
40	55,624	55,646	55,598	55,637	55,559	55,623	55,493	55,602	8
41	55,741	55,762	55,714	55,753	55,675	55,739	55,609	55,718	8
42	55,857	55,879	55,830	55,869	55,791	55,855	55,725	55,834	8
43	55,973	55,995	55,947	55,985	55,907	55,971	55,840	55,950	8
44	56,089	56,111	56,063	56,101	56,023	56,087	55,956	56,066	8
45	63,007	63,029	62,981	63,019	62,940	63,005	62,874	62,983	9
46	63,123	63,145	63,097	63,135	63,056	63,121	62,989	63,099	9
47	63,240	63,261	63,213	63,251	63,172	63,237	63,105	63,215	9
48	63,356	63,378	63,329	63,367	63,288	63,353	63,221	63,331	9
49	63,472	63,494	63,445	63,483	63,404	63,469	63,337	63,447	9
50	63,588	63,610	63,561	63,600	63,520	63,585	63,452	63,562	9
51	70,506	70,528	70,479	70,517	70,438	70,503	70,370	70,480	10
52	70,623	70,644	70,595	70,634	70,554	70,619	70,486	70,596	10
53	70,739	70,760	70,711	70,750	70,670	70,735	70,602	70,712	10
54	70,855	70,876	70,827	70,866	70,786	70,851	70,717	70,828	10
55	70,971	70,993	70,944	70,982	70,902	70,967	70,833	70,944	10
56	71,087	71,109	71,060	71,098	71,018	71,083	70,949	71,059	10
57	78,005	78,027	77,978	78,016	77,936	78,001	77,866	77,977	11
58	78,122	78,143	78,094	78,132	78,052	78,117	77,982	78,093	11
59	78,238	78,259	78,210	78,248	78,168	78,233	78,098	78,209	11
60	78,354	78,375	78,326	78,364	78,284	78,349	78,214	78,325	11
61	78,470	78,492	78,442	78,480	78,400	78,465	78,330	78,441	11
62	78,587	78,608	78,558	78,597	78,516	78,581	78,446	78,557	11
63	85,505	85,526	85,476	85,515	85,434	85,499	85,363	85,474	12
64	85,621	85,642	85,592	85,631	85,550	85,615	85,479	85,590	12
65	85,737	85,758	85,709	85,747	85,666	85,731	85,595	85,706	12
66	85,853	85,874	85,825	85,863	85,782	85,847	85,711	85,822	12
67	85,970	85,991	85,941	85,979	85,898	85,963	85,827	85,938	12
68	86,086	86,107	86,057	86,095	86,014	86,079	85,942	86,054	12
69	93,004	93,025	92,975	93,013	92,932	92,997	92,860	92,972	13
70	93,120	93,141	93,091	93,129	93,048	93,113	92,976	93,087	13
71	93,236	93,257	93,207	93,245	93,164	93,229	93,092	93,203	13
72	93,353	93,373	93,324	93,362	93,280	93,345	93,208	93,319	13
73	93,469	93,490	93,440	93,478	93,396	93,461	93,324	93,435	13
74	93,585	93,606	93,556	93,594	93,512	93,577	93,439	93,551	13
75	100,503	100,524	100,474	100,512	100,430	100,495	100,357	100,469	14
76	100,619	100,640	100,590	100,628	100,546	100,611	100,473	100,585	14
77	100,736	100,756	100,706	100,744	100,662	100,727	100,589	100,701	14
78	100,852	100,873	100,822	100,860	100,778	100,843	100,705	100,817	14
79	100,968	100,989	100,939	100,977	100,894	100,959	100,821	100,933	14
80	101,084	101,105	101,055	101,093	101,010	101,075	100,937	101,049	14
81	108,002	108,023	107,973	108,011	107,928	107,993	107,854	107,966	15
82	108,119	108,139	108,089	108,127	108,044	108,109	107,970	108,082	15
83	108,235	108,255	108,205	108,243	108,161	108,225	108,086	108,198	15
84	108,351	108,372	108,321	108,359	108,277	108,341	108,202	108,314	15
85	108,467	108,488	108,438	108,475	108,393	108,457	108,318	108,430	15
86	115,385	115,406	115,355	115,393	115,311	115,375	115,236	115,348	16
87	115,502	115,522	115,472	115,509	115,427	115,491	115,352	115,464	16
88	115,618	115,638	115,588	115,626	115,543	115,607	115,467	115,580	16
89	115,734	115,755	115,704	115,742	115,659	115,724	115,583	115,696	16
90	115,850	115,871	115,820	115,858	115,775	115,840	115,699	115,812	16
91	115,967	115,987	115,936	115,974	115,891	115,956	115,815	115,928	16
92	122,885	122,905	122,854	122,892	122,809	122,874	122,733	122,846	17
93	123,001	123,021	122,971	123,008	122,925	122,990	122,849	122,962	17
94	123,117	123,138	123,087	123,124	123,041	123,106	122,965	123,078	17
95	123,234	123,254	123,203	123,241	123,157	123,222	123,081	123,194	17
96	123,350	123,370	123,319	123,357	123,273	123,338	123,197	123,310	17
97	123,466	123,486	123,435	123,473	123,389	123,454	123,313	123,426	17
98	130,384	130,404	130,353	130,391	130,307	130,372	130,230	130,343	18
99	130,500	130,521	130,470	130,507	130,423	130,488	130,346	130,459	18
100	130,617	130,637	130,586	130,623	130,540	130,604	130,462	130,575	18

Table A.9 — Inspection dimensions W, $\alpha = 30°$, $m = 3$, $S_{V\,max} = 4{,}712$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	13,044	13,068	13,022	13,061	12,989	13,052	12,934	13,038	2
7	13,183	13,207	13,161	13,200	13,128	13,191	13,072	13,176	2
8	13,323	13,346	13,300	13,340	13,266	13,330	13,209	13,315	2
9	21,624	21,647	21,601	21,641	21,567	21,631	21,509	21,615	3
10	21,763	21,787	21,740	21,780	21,705	21,770	21,647	21,754	3
11	21,902	21,926	21,879	21,919	21,844	21,909	21,785	21,892	3
12	22,042	22,065	22,018	22,058	21,982	22,048	21,923	22,031	3
13	22,181	22,205	22,157	22,197	22,121	22,187	22,061	22,170	3
14	22,320	22,344	22,296	22,336	22,260	22,326	22,200	22,308	3
15	30,622	30,645	30,597	30,638	30,561	30,627	30,500	30,609	4
16	30,761	30,785	30,736	30,777	30,700	30,766	30,638	30,748	4
17	30,900	30,924	30,875	30,916	30,838	30,905	30,777	30,887	4
18	31,040	31,063	31,015	31,055	30,977	31,044	30,915	31,026	4
19	31,179	31,203	31,154	31,194	31,116	31,183	31,054	31,164	4
20	31,318	31,342	31,293	31,334	31,255	31,322	31,192	31,303	4
21	39,620	39,643	39,594	39,635	39,556	39,623	39,493	39,604	5
22	39,759	39,783	39,734	39,774	39,695	39,762	39,631	39,743	5
23	39,899	39,922	39,873	39,913	39,834	39,901	39,770	39,882	5
24	40,038	40,061	40,012	40,053	39,973	40,040	39,909	40,021	5
25	40,177	40,201	40,151	40,192	40,112	40,179	40,047	40,160	5
26	40,317	40,340	40,291	40,331	40,251	40,319	40,186	40,299	5
27	48,618	48,642	48,592	48,633	48,552	48,620	48,487	48,600	6
28	48,758	48,781	48,731	48,772	48,692	48,759	48,625	48,739	6
29	48,897	48,920	48,870	48,911	48,831	48,898	48,764	48,878	6
30	49,037	49,060	49,010	49,051	48,970	49,037	48,903	49,017	6
31	49,176	49,199	49,149	49,190	49,109	49,176	49,042	49,156	6
32	49,315	49,339	49,288	49,329	49,248	49,316	49,180	49,295	6
33	57,617	57,640	57,590	57,631	57,549	57,617	57,481	57,596	7
34	57,756	57,780	57,729	57,770	57,688	57,756	57,620	57,735	7
35	57,896	57,919	57,868	57,909	57,827	57,895	57,759	57,874	7
36	58,035	58,058	58,008	58,048	57,967	58,034	57,898	58,013	7
37	58,175	58,198	58,147	58,188	58,106	58,174	58,037	58,152	7
38	58,314	58,337	58,286	58,327	58,245	58,313	58,176	58,291	7
39	66,616	66,639	66,588	66,629	66,546	66,614	66,477	66,592	8
40	66,755	66,778	66,727	66,768	66,685	66,753	66,616	66,731	8
41	66,895	66,918	66,867	66,907	66,825	66,893	66,754	66,870	8
42	67,034	67,057	67,006	67,047	66,964	67,032	66,893	67,009	8
43	67,174	67,197	67,145	67,186	67,103	67,171	67,032	67,148	8
44	67,313	67,336	67,285	67,325	67,242	67,310	67,171	67,287	8
45	75,615	75,637	75,586	75,627	75,543	75,612	75,472	75,588	9
46	75,754	75,777	75,726	75,766	75,683	75,751	75,611	75,727	9
47	75,894	75,916	75,865	75,905	75,822	75,890	75,750	75,866	9
48	76,033	76,056	76,004	76,045	75,961	76,029	75,889	76,005	9
49	76,173	76,195	76,144	76,184	76,100	76,169	76,028	76,144	9
50	76,312	76,335	76,283	76,324	76,240	76,308	76,167	76,284	9
51	84,614	84,636	84,585	84,625	84,541	84,609	84,468	84,585	10
52	84,753	84,776	84,724	84,764	84,680	84,748	84,607	84,724	10
53	84,893	84,915	84,863	84,904	84,819	84,888	84,746	84,863	10
54	85,032	85,055	85,003	85,043	84,959	85,027	84,885	85,002	10
55	85,172	85,194	85,142	85,183	85,098	85,166	85,024	85,141	10
56	85,311	85,334	85,282	85,322	85,237	85,305	85,163	85,280	10
57	93,613	93,635	93,583	93,623	93,539	93,607	93,464	93,581	11
58	93,752	93,775	93,722	93,763	93,678	93,746	93,604	93,721	11
59	93,892	93,914	93,862	93,902	93,817	93,885	93,743	93,860	11
60	94,031	94,054	94,001	94,042	93,956	94,025	93,882	93,999	11
61	94,171	94,193	94,141	94,181	94,096	94,164	94,021	94,138	11
62	94,310	94,332	94,280	94,320	94,235	94,303	94,160	94,277	11
63	102,612	102,634	102,582	102,622	102,536	102,605	102,461	102,578	12
64	102,751	102,773	102,721	102,761	102,676	102,744	102,600	102,717	12
65	102,891	102,913	102,860	102,901	102,815	102,883	102,739	102,857	12
66	103,030	103,052	103,000	103,040	102,954	103,023	102,878	102,996	12
67	103,170	103,192	103,139	103,179	103,094	103,162	103,017	103,135	12
68	103,309	103,331	103,279	103,319	103,233	103,301	103,156	103,274	12
69	111,611	111,633	111,580	111,620	111,534	111,603	111,458	111,575	13
70	111,750	111,772	111,720	111,760	111,674	111,742	111,597	111,714	13
71	111,890	111,912	111,859	111,899	111,813	111,881	111,736	111,854	13
72	112,029	112,051	111,999	112,039	111,952	112,020	111,875	111,993	13
73	112,169	112,191	112,138	112,178	112,091	112,160	112,014	112,132	13
74	112,309	112,330	112,277	112,317	112,231	112,299	112,153	112,271	13
75	120,610	120,632	120,579	120,619	120,532	120,601	120,454	120,572	14
76	120,750	120,771	120,718	120,758	120,672	120,740	120,593	120,712	14
77	120,889	120,911	120,858	120,898	120,811	120,879	120,733	120,851	14
78	121,029	121,050	120,997	121,037	120,950	121,018	120,872	120,990	14
79	121,168	121,190	121,137	121,177	121,090	121,158	121,011	121,129	14
80	121,308	121,329	121,276	121,316	121,229	121,297	121,150	121,268	14
81	129,609	129,631	129,578	129,618	129,530	129,599	129,451	129,570	15
82	129,749	129,770	129,717	129,757	129,670	129,738	129,590	129,709	15
83	129,888	129,910	129,857	129,896	129,809	129,877	129,730	129,848	15
84	130,028	130,049	129,996	130,036	129,948	130,017	129,869	129,987	15
85	130,167	130,189	130,136	130,175	130,088	130,156	130,008	130,126	15
86	130,307	130,328	130,275	130,315	130,227	130,295	130,147	130,266	15
87	138,609	138,630	138,577	138,616	138,528	138,597	138,448	138,567	16
88	138,748	138,770	138,716	138,756	138,668	138,736	138,587	138,706	16
89	138,888	138,909	138,855	138,895	138,807	138,875	138,727	138,845	16
90	139,027	139,048	138,995	139,034	138,946	139,015	138,866	138,985	16
91	139,167	139,188	139,134	139,174	139,086	139,154	139,005	139,124	16
92	139,306	139,327	139,274	139,313	139,225	139,293	139,144	139,263	16
93	147,608	147,629	147,575	147,615	147,527	147,595	147,445	147,564	17
94	147,747	147,769	147,715	147,754	147,666	147,734	147,585	147,703	17
95	147,887	147,908	147,854	147,894	147,805	147,874	147,724	147,843	17
96	148,027	148,048	147,994	148,033	147,945	148,013	147,863	147,982	17
97	148,166	148,187	148,133	148,173	148,084	148,152	148,002	148,121	17
98	148,306	148,327	148,273	148,312	148,223	148,292	148,141	148,260	17
99	156,607	156,628	156,574	156,614	156,525	156,593	156,443	156,562	18
100	156,747	156,768	156,714	156,753	156,664	156,732	156,582	156,701	18

Table A.10 — Inspection dimensions W, $\alpha = 30°$, $m = 4$, $S_{v\,max} = 6{,}283$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	17,401	17,427	17,377	17,420	17,340	17,410	17,280	17,393	2
7	17,587	17,612	17,562	17,605	17,525	17,595	17,463	17,578	2
8	17,772	17,798	17,747	17,791	17,710	17,780	17,647	17,763	2
9	28,841	28,867	28,815	28,859	28,777	28,848	28,714	28,831	3
10	29,026	29,052	29,001	29,045	28,962	29,033	28,898	29,016	3
11	29,212	29,238	29,186	29,230	29,147	29,219	29,083	29,201	3
12	29,398	29,424	29,372	29,416	29,332	29,404	29,267	29,386	3
13	29,584	29,610	29,557	29,601	29,518	29,589	29,452	29,571	3
14	29,769	29,795	29,743	29,787	29,703	29,775	29,636	29,756	3
15	40,838	40,864	40,811	40,855	40,771	40,843	40,704	40,824	4
16	41,024	41,050	40,997	41,041	40,956	41,029	40,888	41,009	4
17	41,210	41,236	41,182	41,227	41,142	41,214	41,073	41,194	4
18	41,396	41,421	41,368	41,412	41,327	41,400	41,258	41,379	4
19	41,581	41,607	41,554	41,598	41,512	41,585	41,443	41,565	4
20	41,767	41,793	41,739	41,784	41,698	41,771	41,628	41,750	4
21	52,836	52,862	52,808	52,852	52,766	52,839	52,696	52,818	5
22	53,022	53,048	52,994	53,038	52,951	53,024	52,881	53,003	5
23	53,208	53,234	53,179	53,224	53,137	53,210	53,066	53,188	5
24	53,394	53,419	53,365	53,410	53,322	53,396	53,251	53,374	5
25	53,580	53,605	53,551	53,595	53,508	53,581	53,436	53,559	5
26	53,766	53,791	53,737	53,781	53,693	53,767	53,621	53,744	5
27	64,834	64,860	64,805	64,850	64,762	64,835	64,689	64,813	6
28	65,020	65,046	64,991	65,035	64,947	65,021	64,874	64,998	6
29	65,206	65,232	65,177	65,221	65,133	65,206	65,059	65,183	6
30	65,392	65,418	65,363	65,407	65,318	65,392	65,244	65,369	6
31	65,578	65,603	65,548	65,593	65,504	65,578	65,430	65,554	6
32	65,764	65,789	65,734	65,779	65,689	65,763	65,615	65,740	6
33	76,833	76,858	76,803	76,847	76,758	76,832	76,683	76,808	7
34	77,019	77,044	76,989	77,033	76,943	77,017	76,868	76,993	7
35	77,205	77,230	77,175	77,219	77,129	77,203	77,053	77,179	7
36	77,391	77,416	77,360	77,405	77,315	77,389	77,239	77,364	7
37	77,577	77,602	77,546	77,590	77,500	77,574	77,424	77,550	7
38	77,763	77,788	77,732	77,776	77,686	77,760	77,609	77,735	7
39	88,831	88,856	88,801	88,845	88,755	88,828	88,678	88,803	8
40	89,017	89,042	88,987	89,031	88,940	89,014	88,863	88,989	8
41	89,203	89,228	89,172	89,217	89,126	89,200	89,048	89,174	8
42	89,389	89,414	89,358	89,402	89,312	89,386	89,234	89,360	8
43	89,575	89,600	89,544	89,588	89,497	89,571	89,419	89,545	8
44	89,761	89,786	89,730	89,774	89,683	89,757	89,604	89,731	8
45	100,830	100,855	100,799	100,843	100,751	100,826	100,673	100,799	9
46	101,016	101,041	100,985	101,029	100,937	101,011	100,858	100,985	9
47	101,202	101,227	101,170	101,215	101,123	101,197	101,043	101,170	9
48	101,388	101,413	101,356	101,400	101,309	101,383	101,229	101,356	9
49	101,574	101,599	101,542	101,586	101,494	101,568	101,414	101,541	9
50	101,760	101,785	101,728	101,772	101,680	101,754	101,600	101,727	9
51	112,829	112,854	112,797	112,841	112,749	112,823	112,668	112,795	10
52	113,015	113,040	112,983	113,027	112,934	113,008	112,853	112,981	10
53	113,201	113,225	113,169	113,213	113,120	113,194	113,039	113,166	10
54	113,387	113,411	113,355	113,398	113,306	113,380	113,224	113,352	10
55	113,573	113,597	113,541	113,584	113,492	113,566	113,410	113,537	10
56	113,759	113,783	113,726	113,770	113,677	113,751	113,595	113,723	10
57	124,828	124,852	124,795	124,839	124,746	124,820	124,664	124,791	11
58	125,014	125,038	124,981	125,025	124,932	125,006	124,849	124,977	11
59	125,200	125,224	125,167	125,211	125,117	125,192	125,035	125,162	11
60	125,386	125,410	125,353	125,397	125,303	125,377	125,220	125,348	11
61	125,572	125,596	125,539	125,582	125,489	125,563	125,406	125,533	11
62	125,758	125,782	125,725	125,768	125,675	125,749	125,591	125,719	11
63	136,827	136,851	136,794	136,837	136,743	136,817	136,660	136,787	12
64	137,013	137,037	136,979	137,023	136,929	137,003	136,845	136,973	12
65	137,199	137,223	137,165	137,209	137,115	137,189	137,031	137,159	12
66	137,385	137,409	137,351	137,395	137,301	137,375	137,216	137,344	12
67	137,571	137,595	137,537	137,581	137,487	137,561	137,402	137,530	12
68	137,757	137,781	137,723	137,767	137,672	137,746	137,587	137,716	12
69	148,826	148,850	148,792	148,835	148,741	148,815	148,656	148,784	13
70	149,012	149,036	148,978	149,021	148,927	149,001	148,841	148,970	13
71	149,198	149,222	149,164	149,207	149,113	149,187	149,027	149,155	13
72	149,384	149,408	149,350	149,393	149,298	149,372	149,213	149,341	13
73	149,570	149,594	149,536	149,579	149,484	149,558	149,398	149,526	13
74	149,756	149,780	149,722	149,765	149,670	149,744	149,584	149,712	13
75	160,825	160,848	160,791	160,834	160,739	160,813	160,652	160,781	14
76	161,011	161,034	160,976	161,020	160,924	160,998	160,838	160,966	14
77	161,197	161,220	161,162	161,205	161,110	161,184	161,023	161,152	14
78	161,383	161,407	161,348	161,391	161,296	161,370	161,209	161,338	14
79	161,569	161,593	161,534	161,577	161,482	161,556	161,395	161,523	14
80	161,755	161,779	161,720	161,763	161,668	161,742	161,580	161,709	14
81	172,824	172,847	172,789	172,832	172,736	172,810	172,649	172,777	15
82	173,010	173,033	172,975	173,018	172,922	172,996	172,834	172,963	15
83	173,196	173,219	173,161	173,204	173,108	173,182	173,020	173,149	15
84	173,382	173,405	173,347	173,390	173,294	173,368	173,205	173,334	15
85	173,568	173,591	173,533	173,576	173,480	173,554	173,391	173,520	15
86	173,755	173,777	173,719	173,762	173,666	173,739	173,577	173,706	15
87	184,823	184,846	184,788	184,830	184,734	184,808	184,645	184,774	16
88	185,009	185,032	184,974	185,016	184,920	184,994	184,831	184,960	16
89	185,196	185,218	185,160	185,202	185,106	185,180	185,016	185,145	16
90	185,382	185,404	185,346	185,388	185,292	185,366	185,202	185,331	16
91	185,568	185,590	185,532	185,574	185,478	185,551	185,388	185,517	16
92	185,754	185,776	185,718	185,760	185,664	185,737	185,573	185,703	16
93	196,823	196,845	196,786	196,829	196,732	196,806	196,642	196,771	17
94	197,009	197,031	196,972	197,015	196,918	196,992	196,828	196,957	17
95	197,195	197,217	197,158	197,201	197,104	197,178	197,013	197,142	17
96	197,381	197,403	197,344	197,387	197,290	197,363	197,199	197,328	17
97	197,567	197,589	197,530	197,573	197,476	197,549	197,385	197,514	17
98	197,753	197,775	197,716	197,759	197,662	197,735	197,570	197,700	17
99	208,822	208,844	208,785	208,827	208,730	208,804	208,639	208,768	18
100	209,008	209,030	208,971	209,013	208,916	208,990	208,824	208,954	18

Table A.11 — Inspection dimensions W, $\alpha = 30°$, $m = 5$, $S_{v\,max} = 7{,}854$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	21,758	21,786	21,732	21,778	21,693	21,767	21,627	21,749	2
7	21,990	22,018	21,964	22,010	21,924	21,999	21,857	21,980	2
8	22,222	22,250	22,195	22,242	22,155	22,230	22,088	22,212	2
9	36,058	36,086	36,031	36,078	35,990	36,065	35,921	36,046	3
10	36,290	36,318	36,263	36,310	36,221	36,297	36,152	36,278	3
11	36,522	36,550	36,495	36,542	36,453	36,529	36,383	36,509	3
12	36,755	36,782	36,726	36,774	36,684	36,761	36,614	36,741	3
13	36,987	37,015	36,959	37,006	36,916	36,993	36,845	36,972	3
14	37,219	37,247	37,191	37,238	37,147	37,225	37,076	37,204	3
15	51,055	51,083	51,026	51,073	50,983	51,060	50,910	51,039	4
16	51,288	51,315	51,258	51,306	51,214	51,292	51,141	51,270	4
17	51,520	51,548	51,490	51,538	51,446	51,524	51,372	51,502	4
18	51,752	51,780	51,723	51,770	51,678	51,756	51,604	51,734	4
19	51,985	52,012	51,955	52,002	51,910	51,988	51,835	51,965	4
20	52,217	52,245	52,187	52,234	52,142	52,220	52,066	52,197	4
21	66,053	66,080	66,023	66,070	65,977	66,055	65,901	66,032	5
22	66,285	66,313	66,255	66,302	66,209	66,287	66,133	66,264	5
23	66,518	66,545	66,487	66,535	66,441	66,519	66,364	66,496	5
24	66,750	66,778	66,719	66,767	66,673	66,751	66,596	66,727	5
25	66,983	67,010	66,952	66,999	66,905	66,983	66,827	66,959	5
26	67,215	67,242	67,184	67,231	67,137	67,215	67,059	67,191	5
27	81,051	81,078	81,020	81,067	80,972	81,051	80,894	81,026	6
28	81,284	81,311	81,252	81,299	81,204	81,283	81,125	81,258	6
29	81,516	81,543	81,484	81,532	81,437	81,515	81,357	81,490	6
30	81,748	81,775	81,717	81,764	81,669	81,747	81,589	81,722	6
31	81,981	82,008	81,949	81,996	81,901	81,979	81,820	81,953	6
32	82,213	82,240	82,181	82,228	82,133	82,211	82,052	82,185	6
33	96,049	96,076	96,017	96,064	95,968	96,047	95,887	96,021	7
34	96,282	96,309	96,249	96,297	96,200	96,279	96,119	96,252	7
35	96,514	96,541	96,482	96,529	96,433	96,511	96,351	96,484	7
36	96,747	96,774	96,714	96,761	96,665	96,743	96,582	96,716	7
37	96,979	97,006	96,946	96,994	96,897	96,976	96,814	96,948	7
38	97,212	97,238	97,179	97,226	97,129	97,208	97,046	97,180	7
39	111,048	111,074	111,015	111,062	110,965	111,043	110,881	111,016	8
40	111,280	111,307	111,247	111,294	111,197	111,276	111,113	111,247	8
41	111,513	111,539	111,479	111,526	111,429	111,508	111,345	111,479	8
42	111,746	111,772	111,712	111,759	111,661	111,740	111,577	111,711	8
43	111,978	112,004	111,944	111,991	111,893	111,972	111,809	111,943	8
44	112,211	112,237	112,177	112,223	112,126	112,204	112,040	112,175	8
45	126,047	126,073	126,012	126,059	125,961	126,040	125,876	126,011	9
46	126,279	126,305	126,245	126,292	126,193	126,272	126,108	126,243	9
47	126,512	126,538	126,477	126,524	126,426	126,505	126,340	126,475	9
48	126,744	126,770	126,710	126,756	126,658	126,737	126,572	126,707	9
49	126,977	127,003	126,942	126,989	126,890	126,969	126,803	126,939	9
50	127,209	127,235	127,174	127,221	127,122	127,201	127,035	127,171	9
51	141,045	141,071	141,010	141,057	140,958	141,037	140,871	141,006	10
52	141,278	141,304	141,243	141,289	141,190	141,269	141,103	141,238	10
53	141,510	141,536	141,475	141,522	141,423	141,501	141,335	141,470	10
54	141,743	141,769	141,708	141,754	141,655	141,734	141,567	141,702	10
55	141,976	142,001	141,940	141,987	141,887	141,966	141,799	141,934	10
56	142,208	142,234	142,173	142,219	142,119	142,198	142,031	142,166	10
57	156,044	156,070	156,008	156,055	155,955	156,034	155,866	156,002	11
58	156,277	156,302	156,241	156,287	156,187	156,266	156,098	156,234	11
59	156,509	156,535	156,473	156,520	156,420	156,498	156,330	156,466	11
60	156,742	156,767	156,706	156,752	156,652	156,731	156,562	156,698	11
61	156,974	157,000	156,938	156,984	156,884	156,963	156,794	156,930	11
62	157,207	157,232	157,171	157,217	157,116	157,195	157,026	157,162	11
63	171,043	171,068	171,007	171,053	170,952	171,031	170,861	170,998	12
64	171,276	171,301	171,239	171,285	171,185	171,263	171,094	171,230	12
65	171,508	171,533	171,472	171,518	171,417	171,496	171,326	171,462	12
66	171,741	171,766	171,704	171,750	171,649	171,728	171,558	171,694	12
67	171,973	171,998	171,937	171,982	171,881	171,960	171,790	171,926	12
68	185,809	185,834	185,773	185,818	185,717	185,796	185,625	185,762	13
69	186,042	186,067	186,005	186,051	185,950	186,028	185,857	185,994	13
70	186,274	186,299	186,237	186,283	186,182	186,260	186,089	186,226	13
71	186,507	186,532	186,470	186,516	186,414	186,493	186,321	186,458	13
72	186,740	186,764	186,702	186,748	186,646	186,725	186,553	186,690	13
73	186,972	186,997	186,935	186,981	186,879	186,957	186,785	186,922	13
74	200,808	200,833	200,771	200,817	200,715	200,793	200,621	200,758	14
75	201,041	201,065	201,003	201,049	200,947	201,026	200,853	200,990	14
76	201,273	201,298	201,236	201,281	201,179	201,258	201,085	201,222	14
77	201,506	201,531	201,468	201,514	201,412	201,490	201,317	201,454	14
78	201,739	201,763	201,701	201,746	201,644	201,722	201,549	201,686	14
79	201,971	201,996	201,933	201,979	201,876	201,955	201,781	201,918	14
80	215,807	215,832	215,769	215,815	215,712	215,791	215,617	215,754	15
81	216,040	216,064	216,002	216,047	215,944	216,023	215,849	215,986	15
82	216,272	216,297	216,234	216,280	216,177	216,255	216,081	216,218	15
83	216,505	216,529	216,467	216,512	216,409	216,488	216,313	216,450	15
84	216,738	216,762	216,699	216,744	216,642	216,720	216,545	216,683	15
85	216,970	216,994	216,932	216,977	216,874	216,952	216,778	216,915	15
86	230,806	230,830	230,768	230,813	230,710	230,788	230,613	230,750	16
87	231,039	231,063	231,000	231,045	230,942	231,020	230,845	230,983	16
88	231,272	231,295	231,233	231,278	231,174	231,253	231,077	231,215	16
89	231,504	231,528	231,465	231,510	231,407	231,485	231,310	231,447	16
90	231,737	231,761	231,698	231,743	231,639	231,717	231,542	231,679	16
91	231,969	231,993	231,930	231,975	231,872	231,950	231,774	231,911	16
92	245,805	245,829	245,766	245,811	245,707	245,786	245,609	245,747	17
93	246,038	246,062	245,999	246,044	245,940	246,018	245,842	245,979	17
94	246,271	246,294	246,231	246,276	246,172	246,250	246,074	246,211	17
95	246,503	246,527	246,464	246,509	246,405	246,483	246,306	246,443	17
96	246,736	246,759	246,696	246,741	246,637	246,715	246,538	246,676	17
97	246,968	246,992	246,929	246,974	246,869	246,947	246,770	246,908	17
98	260,805	260,828	260,765	260,809	260,705	260,783	260,606	260,743	18
99	261,037	261,061	260,997	261,042	260,938	261,016	260,838	260,976	18
100	261,270	261,293	261,230	261,274	261,170	261,248	261,070	261,208	18

Table A.12 — Inspection dimensions W, $\alpha = 30°$, $m = 6$, $S_{v\,max} = 9{,}425$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	26,116	26,145	26,088	26,137	26,046	26,125	25,976	26,105	2
7	26,394	26,424	26,366	26,415	26,323	26,403	26,253	26,383	2
8	26,673	26,702	26,644	26,693	26,601	26,681	26,529	26,661	2
9	43,276	43,305	43,247	43,296	43,203	43,283	43,130	43,262	3
10	43,554	43,584	43,525	43,575	43,481	43,561	43,407	43,540	3
11	43,833	43,863	43,803	43,853	43,759	43,840	43,684	43,818	3
12	44,112	44,141	44,082	44,132	44,037	44,118	43,962	44,096	3
13	44,391	44,420	44,360	44,410	44,315	44,396	44,239	44,374	3
14	44,670	44,699	44,639	44,689	44,593	44,674	44,517	44,652	3
15	61,273	61,302	61,242	61,292	61,195	61,277	61,118	61,254	4
16	61,552	61,581	61,520	61,570	61,474	61,555	61,396	61,532	4
17	61,830	61,860	61,799	61,849	61,752	61,834	61,673	61,810	4
18	62,109	62,138	62,078	62,128	62,030	62,112	61,951	62,088	4
19	62,388	62,417	62,356	62,406	62,309	62,391	62,229	62,366	4
20	62,667	62,696	62,635	62,685	62,587	62,669	62,507	62,644	4
21	79,270	79,299	79,238	79,288	79,189	79,272	79,109	79,247	5
22	79,549	79,578	79,517	79,567	79,468	79,550	79,387	79,525	5
23	79,828	79,857	79,795	79,845	79,746	79,829	79,664	79,803	5
24	80,107	80,136	80,074	80,124	80,025	80,107	79,942	80,081	5
25	80,386	80,415	80,353	80,403	80,303	80,386	80,220	80,359	5
26	80,665	80,694	80,632	80,682	80,582	80,664	80,498	80,638	5
27	97,268	97,297	97,235	97,285	97,184	97,267	97,101	97,240	6
28	97,547	97,576	97,514	97,563	97,463	97,546	97,379	97,518	6
29	97,826	97,855	97,792	97,842	97,742	97,824	97,657	97,797	6
30	98,105	98,134	98,071	98,121	98,020	98,103	97,935	98,075	6
31	98,384	98,413	98,350	98,400	98,299	98,381	98,213	98,353	6
32	98,663	98,691	98,629	98,679	98,577	98,660	98,491	98,631	6
33	115,267	115,295	115,232	115,282	115,180	115,263	115,093	115,234	7
34	115,546	115,574	115,511	115,560	115,459	115,541	115,372	115,512	7
35	115,825	115,853	115,790	115,839	115,737	115,820	115,650	115,791	7
36	116,104	116,132	116,068	116,118	116,016	116,099	115,928	116,069	7
37	116,383	116,410	116,347	116,397	116,294	116,377	116,206	116,347	7
38	116,662	116,689	116,626	116,676	116,573	116,656	116,485	116,626	7
39	133,265	133,293	133,229	133,279	133,176	133,259	133,087	133,228	8
40	133,544	133,572	133,508	133,558	133,455	133,538	133,365	133,507	8
41	133,823	133,851	133,787	133,836	133,733	133,816	133,644	133,785	8
42	134,102	134,130	134,066	134,115	134,012	134,095	133,922	134,064	8
43	134,381	134,409	134,345	134,394	134,291	134,374	134,200	134,342	8
44	134,660	134,688	134,624	134,673	134,569	134,652	134,479	134,620	8
45	151,263	151,291	151,227	151,276	151,172	151,255	151,081	151,223	9
46	151,542	151,570	151,506	151,555	151,451	151,534	151,359	151,501	9
47	151,822	151,849	151,785	151,834	151,730	151,813	151,638	151,780	9
48	152,101	152,128	152,064	152,113	152,008	152,091	151,916	152,058	9
49	152,380	152,407	152,343	152,392	152,287	152,370	152,195	152,337	9
50	152,659	152,686	152,622	152,670	152,566	152,649	152,473	152,615	9
51	169,262	169,289	169,225	169,274	169,169	169,252	169,076	169,218	10
52	169,541	169,568	169,504	169,552	169,448	169,530	169,354	169,497	10
53	169,820	169,847	169,783	169,831	169,726	169,809	169,632	169,775	10
54	170,099	170,126	170,062	170,110	170,005	170,088	169,911	170,054	10
55	170,378	170,405	170,341	170,389	170,284	170,367	170,189	170,332	10
56	170,657	170,684	170,619	170,668	170,563	170,645	170,468	170,611	10
57	187,261	187,287	187,223	187,271	187,166	187,248	187,070	187,213	11
58	187,540	187,566	187,502	187,550	187,444	187,527	187,349	187,492	11
59	187,819	187,845	187,781	187,829	187,723	187,806	187,627	187,770	11
60	188,098	188,124	188,060	188,108	188,002	188,085	187,906	188,049	11
61	188,377	188,403	188,339	188,387	188,281	188,363	188,184	188,327	11
62	188,656	188,682	188,617	188,666	188,559	188,642	188,463	188,606	11
63	205,259	205,286	205,221	205,269	205,162	205,245	205,065	205,209	12
64	205,539	205,565	205,500	205,548	205,441	205,524	205,344	205,487	12
65	205,818	205,844	205,779	205,827	205,720	205,803	205,622	205,766	12
66	206,097	206,123	206,058	206,106	205,999	206,081	205,901	206,044	12
67	206,376	206,402	206,337	206,385	206,278	206,360	206,179	206,323	12
68	222,979	223,005	222,940	222,988	222,881	222,963	222,782	222,926	13
69	223,258	223,284	223,219	223,267	223,159	223,242	223,061	223,204	13
70	223,537	223,563	223,498	223,546	223,438	223,521	223,339	223,483	13
71	223,817	223,842	223,777	223,825	223,717	223,800	223,618	223,761	13
72	224,096	224,121	224,056	224,104	223,996	224,078	223,896	224,040	13
73	224,375	224,400	224,335	224,383	224,275	224,357	224,175	224,319	13
74	240,978	241,004	240,938	240,986	240,878	240,960	240,778	240,921	14
75	241,257	241,283	241,217	241,265	241,157	241,239	241,056	241,200	14
76	241,536	241,562	241,496	241,544	241,435	241,518	241,335	241,479	14
77	241,815	241,841	241,775	241,823	241,714	241,797	241,613	241,757	14
78	242,095	242,120	242,054	242,102	241,993	242,075	241,892	242,036	14
79	242,374	242,399	242,333	242,381	242,272	242,354	242,170	242,314	14
80	258,977	259,002	258,936	258,984	258,875	258,957	258,773	258,917	15
81	259,256	259,281	259,215	259,263	259,154	259,236	259,052	259,196	15
82	259,535	259,560	259,494	259,542	259,433	259,515	259,330	259,474	15
83	259,814	259,839	259,773	259,821	259,712	259,794	259,609	259,753	15
84	260,093	260,119	260,052	260,100	259,990	260,073	259,886	260,032	15
85	260,372	260,398	260,331	260,379	260,269	260,351	260,165	260,310	15
86	276,976	277,001	276,934	276,982	276,872	276,954	276,768	276,913	16
87	277,255	277,280	277,213	277,261	277,150	277,233	277,046	277,192	16
88	277,534	277,559	277,492	277,540	277,429	277,512	277,325	277,470	16
89	277,813	277,838	277,771	277,819	277,708	277,791	277,603	277,749	16
90	278,092	278,117	278,050	278,098	277,987	278,070	277,882	278,028	16
91	278,371	278,396	278,329	278,377	278,266	278,349	278,160	278,306	16
92	294,974	295,000	294,932	294,980	294,868	294,952	294,763	294,909	17
93	295,253	295,279	295,211	295,259	295,147	295,231	295,041	295,188	17
94	295,533	295,558	295,490	295,538	295,426	295,509	295,320	295,467	17
95	295,812	295,837	295,769	295,817	295,705	295,788	295,598	295,745	17
96	296,091	296,116	296,048	296,096	295,984	296,067	295,877	296,024	17
97	296,370	296,395	296,327	296,375	296,262	296,346	296,155	296,303	17
98	312,973	312,998	312,930	312,978	312,865	312,949	312,758	312,905	18
99	313,252	313,277	313,209	313,257	313,144	313,228	313,036	313,184	18
100	313,531	313,556	313,488	313,536	313,423	313,507	313,315	313,463	18

Table A.13 — Inspection dimensions W, $\alpha = 30°$, $m = 8$, $S_{v\,max} = 12{,}566$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	34,832	34,863	34,801	34,854	34,755	34,840	34,678	34,818	2
7	35,203	35,235	35,172	35,225	35,125	35,211	35,047	35,188	2
8	35,575	35,607	35,543	35,597	35,496	35,582	35,416	35,559	2
9	57,712	57,744	57,680	57,734	57,632	57,719	57,552	57,695	3
10	58,084	58,116	58,051	58,105	58,003	58,090	57,921	58,066	3
11	58,456	58,487	58,423	58,477	58,373	58,461	58,291	58,436	3
12	58,827	58,859	58,794	58,848	58,744	58,832	58,661	58,807	3
13	59,199	59,231	59,166	59,220	59,115	59,203	59,032	59,178	3
14	59,571	59,603	59,537	59,591	59,487	59,575	59,402	59,549	3
15	81,709	81,740	81,674	81,729	81,623	81,712	81,538	81,685	4
16	82,081	82,112	82,046	82,100	81,994	82,083	81,908	82,056	4
17	82,452	82,484	82,418	82,472	82,366	82,454	82,279	82,427	4
18	82,824	82,856	82,789	82,844	82,737	82,826	82,649	82,798	4
19	83,196	83,228	83,161	83,215	83,108	83,197	83,020	83,169	4
20	83,568	83,600	83,533	83,587	83,480	83,568	83,391	83,540	4
21	105,706	105,737	105,670	105,724	105,617	105,705	105,527	105,677	5
22	106,078	106,109	106,042	106,096	105,988	106,077	105,898	106,048	5
23	106,450	106,481	106,414	106,468	106,359	106,448	106,269	106,419	5
24	106,822	106,853	106,785	106,839	106,731	106,820	106,640	106,790	5
25	107,194	107,225	107,157	107,211	107,102	107,191	107,010	107,161	5
26	107,566	107,597	107,529	107,583	107,474	107,563	107,381	107,532	5
27	129,704	129,734	129,667	129,720	129,611	129,700	129,518	129,669	6
28	130,076	130,106	130,038	130,092	129,982	130,072	129,889	130,040	6
29	130,448	130,478	130,410	130,464	130,354	130,443	130,260	130,411	6
30	130,820	130,850	130,782	130,836	130,725	130,815	130,631	130,783	6
31	131,192	131,222	131,154	131,208	131,097	131,186	131,002	131,154	6
32	131,564	131,594	131,526	131,579	131,469	131,558	131,373	131,525	6
33	153,702	153,732	153,663	153,717	153,606	153,695	153,510	153,662	7
34	154,074	154,104	154,035	154,089	153,977	154,067	153,881	154,033	7
35	154,446	154,476	154,407	154,460	154,349	154,438	154,252	154,404	7
36	154,818	154,848	154,779	154,832	154,721	154,810	154,623	154,776	7
37	155,190	155,220	155,151	155,204	155,092	155,182	154,994	155,147	7
38	155,562	155,592	155,523	155,576	155,464	155,553	155,366	155,518	7
39	177,700	177,729	177,660	177,713	177,601	177,690	177,502	177,655	8
40	178,072	178,101	178,032	178,085	177,973	178,062	177,874	178,027	8
41	178,444	178,474	178,404	178,457	178,344	178,434	178,245	178,398	8
42	178,816	178,846	178,776	178,829	178,716	178,805	178,616	178,769	8
43	179,188	179,218	179,148	179,201	179,088	179,177	178,987	179,141	8
44	179,560	179,590	179,520	179,573	179,459	179,549	179,359	179,512	8
45	201,698	201,727	201,658	201,710	201,597	201,686	201,496	201,649	9
46	202,070	202,099	202,030	202,082	201,969	202,058	201,867	202,020	9
47	202,442	202,471	202,401	202,454	202,340	202,429	202,238	202,392	9
48	202,814	202,843	202,773	202,826	202,712	202,801	202,609	202,763	9
49	203,187	203,215	203,145	203,198	203,084	203,173	202,981	203,135	9
50	203,559	203,588	203,517	203,570	203,455	203,545	203,352	203,506	9
51	225,696	225,725	225,655	225,707	225,593	225,682	225,489	225,643	10
52	226,069	226,097	226,027	226,079	225,965	226,054	225,861	226,015	10
53	226,441	226,469	226,399	226,451	226,336	226,425	226,232	226,386	10
54	226,813	226,841	226,771	226,823	226,708	226,797	226,603	226,757	10
55	227,185	227,214	227,143	227,195	227,080	227,169	226,975	227,129	10
56	227,557	227,586	227,515	227,567	227,452	227,541	227,346	227,500	10
57	249,695	249,723	249,653	249,705	249,589	249,678	249,483	249,637	11
58	250,067	250,095	250,025	250,077	249,961	250,050	249,855	250,009	11
59	250,439	250,467	250,397	250,449	250,333	250,422	250,226	250,380	11
60	250,811	250,840	250,769	250,821	250,704	250,793	250,597	250,752	11
61	251,184	251,212	251,141	251,192	251,076	251,165	250,969	251,123	11
62	251,556	251,584	251,513	251,564	251,448	251,537	251,340	251,495	11
63	273,693	273,721	273,650	273,702	273,585	273,674	273,476	273,632	12
64	274,065	274,093	274,022	274,074	273,956	274,046	273,848	274,004	12
65	274,438	274,466	274,394	274,446	274,328	274,418	274,219	274,375	12
66	274,810	274,838	274,766	274,818	274,700	274,790	274,590	274,747	12
67	275,182	275,210	275,138	275,190	275,072	275,161	274,961	275,118	12
68	275,554	275,582	275,510	275,562	275,443	275,533	275,333	275,490	12
69	297,692	297,720	297,647	297,699	297,581	297,671	297,470	297,627	13
70	298,064	298,092	298,019	298,071	297,952	298,042	297,841	297,998	13
71	298,436	298,464	298,391	298,443	298,324	298,414	298,212	298,370	13
72	298,808	298,836	298,763	298,815	298,696	298,786	298,584	298,741	13
73	299,180	299,208	299,135	299,187	299,067	299,158	298,955	299,113	13
74	299,552	299,580	299,507	299,559	299,439	299,530	299,326	299,485	13
75	321,690	321,718	321,645	321,697	321,576	321,667	321,463	321,622	14
76	322,062	322,090	322,017	322,069	321,948	322,039	321,834	321,993	14
77	322,434	322,462	322,388	322,441	322,320	322,411	322,206	322,365	14
78	322,806	322,834	322,760	322,813	322,692	322,783	322,577	322,737	14
79	323,178	323,206	323,132	323,185	323,063	323,154	322,948	323,108	14
80	323,551	323,579	323,504	323,557	323,435	323,526	323,319	323,480	14
81	345,688	345,716	345,642	345,695	345,572	345,664	345,456	345,617	15
82	346,060	346,088	346,014	346,067	345,944	346,036	345,828	345,988	15
83	346,433	346,460	346,386	346,439	346,316	346,407	346,199	346,360	15
84	346,805	346,833	346,758	346,811	346,687	346,779	346,570	346,732	15
85	347,177	347,205	347,130	347,183	347,059	347,151	346,942	347,103	15
86	347,549	347,577	347,502	347,555	347,431	347,523	347,313	347,475	15
87	369,687	369,715	369,639	369,692	369,568	369,660	369,450	369,612	16
88	370,059	370,087	370,011	370,064	369,940	370,032	369,821	369,984	16
89	370,431	370,459	370,383	370,436	370,312	370,404	370,192	370,355	16
90	370,803	370,831	370,755	370,808	370,683	370,776	370,564	370,727	16
91	371,175	371,203	371,127	371,180	371,055	371,148	370,935	371,099	16
92	371,547	371,575	371,499	371,552	371,427	371,520	371,306	371,470	16
93	393,685	393,713	393,637	393,690	393,564	393,657	393,443	393,608	17
94	394,057	394,085	394,009	394,062	393,936	394,029	393,814	393,979	17
95	394,429	394,457	394,380	394,434	394,307	394,401	394,186	394,351	17
96	394,801	394,830	394,752	394,806	394,679	394,773	394,557	394,722	17
97	395,173	395,202	395,124	395,178	395,051	395,145	394,928	395,094	17
98	395,546	395,574	395,496	395,550	395,423	395,517	395,300	395,466	17
99	417,683	417,712	417,634	417,688	417,560	417,654	417,436	417,603	18
100	418,055	418,084	418,006	418,060	417,932	418,026	417,808	417,975	18

Table A.14 — Inspection dimensions W, $\alpha = 30°$, $m = 10$, $S_{V\,max} = 15{,}708$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	43,548	43,582	43,515	43,571	43,465	43,556	43,382	43,531	2
7	44,013	44,046	43,979	44,036	43,928	44,019	43,844	43,994	2
8	44,477	44,511	44,443	44,500	44,392	44,483	44,306	44,457	2
9	72,149	72,183	72,114	72,171	72,062	72,154	71,976	72,128	3
10	72,614	72,648	72,579	72,636	72,526	72,619	72,438	72,591	3
11	73,079	73,112	73,043	73,100	72,990	73,083	72,901	73,055	3
12	73,544	73,577	73,508	73,565	73,454	73,547	73,364	73,519	3
13	74,009	74,042	73,972	74,030	73,918	74,011	73,827	73,982	3
14	74,473	74,507	74,437	74,494	74,382	74,475	74,290	74,446	3
15	102,145	102,179	102,108	102,166	102,053	102,147	101,961	102,117	4
16	102,610	102,644	102,573	102,630	102,517	102,611	102,424	102,581	4
17	103,075	103,109	103,038	103,095	102,981	103,075	102,887	103,045	4
18	103,540	103,573	103,502	103,560	103,446	103,540	103,351	103,508	4
19	104,005	104,038	103,967	104,024	103,910	104,004	103,814	103,972	4
20	104,470	104,503	104,432	104,489	104,374	104,468	104,278	104,436	4
21	132,142	132,175	132,104	132,161	132,046	132,140	131,949	132,107	5
22	132,607	132,640	132,568	132,626	132,510	132,604	132,412	132,571	5
23	133,073	133,105	133,033	133,090	132,974	133,069	132,876	133,035	5
24	133,538	133,570	133,498	133,555	133,439	133,533	133,340	133,499	5
25	134,003	134,035	133,963	134,020	133,903	133,998	133,804	133,963	5
26	134,468	134,500	134,428	134,485	134,368	134,462	134,268	134,428	5
27	162,140	162,172	162,100	162,156	162,039	162,134	161,939	162,099	6
28	162,605	162,637	162,564	162,621	162,504	162,598	162,402	162,563	6
29	163,070	163,102	163,029	163,086	162,968	163,063	162,866	163,027	6
30	163,535	163,567	163,494	163,551	163,433	163,527	163,330	163,491	6
31	164,000	164,032	163,959	164,016	163,897	163,992	163,794	163,955	6
32	164,465	164,497	164,424	164,481	164,362	164,456	164,258	164,419	6
33	192,138	192,169	192,096	192,152	192,034	192,128	191,929	192,091	7
34	192,603	192,634	192,561	192,617	192,498	192,593	192,394	192,555	7
35	193,068	193,099	193,026	193,082	192,963	193,057	192,858	193,019	7
36	193,533	193,564	193,491	193,547	193,427	193,522	193,322	193,483	7
37	193,998	194,030	193,956	194,012	193,892	193,986	193,786	193,948	7
38	194,463	194,495	194,421	194,477	194,357	194,451	194,250	194,412	7
39	222,136	222,167	222,093	222,149	222,028	222,123	221,921	222,083	8
40	222,601	222,632	222,558	222,614	222,493	222,587	222,385	222,547	8
41	223,066	223,097	223,023	223,079	222,958	223,052	222,850	223,012	8
42	223,531	223,562	223,488	223,543	223,422	223,517	223,314	223,476	8
43	223,996	224,027	223,953	224,008	223,887	223,981	223,778	223,940	8
44	224,461	224,492	224,418	224,473	224,352	224,446	224,242	224,405	8
45	252,134	252,164	252,090	252,145	252,024	252,118	251,914	252,076	9
46	252,599	252,629	252,555	252,610	252,488	252,583	252,378	252,540	9
47	253,064	253,094	253,020	253,075	252,953	253,047	252,842	253,005	9
48	253,529	253,560	253,485	253,540	253,418	253,512	253,306	253,469	9
49	253,994	254,025	253,950	254,005	253,883	253,977	253,771	253,934	9
50	254,460	254,490	254,415	254,470	254,347	254,441	254,235	254,398	9
51	282,132	282,162	282,086	282,142	282,018	282,113	281,905	282,069	10
52	282,597	282,627	282,551	282,607	282,483	282,578	282,369	282,534	10
53	283,062	283,092	283,016	283,072	282,948	283,043	282,833	282,998	10
54	283,527	283,557	283,481	283,537	283,412	283,507	283,298	283,463	10
55	283,992	284,022	283,946	284,002	283,877	283,972	283,762	283,927	10
56	284,457	284,488	284,411	284,467	284,342	284,437	284,226	284,391	10
57	312,129	312,160	312,083	312,139	312,013	312,109	311,897	312,063	11
58	312,595	312,625	312,548	312,604	312,478	312,573	312,361	312,527	11
59	313,060	313,090	313,013	313,069	312,942	313,038	312,825	312,992	11
60	313,525	313,555	313,478	313,534	313,407	313,503	313,289	313,456	11
61	313,990	314,020	313,943	313,999	313,872	313,968	313,753	313,921	11
62	314,455	314,485	314,408	314,464	314,336	314,433	314,218	314,385	11
63	342,127	342,158	342,080	342,136	342,008	342,104	341,889	342,057	12
64	342,593	342,623	342,545	342,601	342,473	342,569	342,353	342,521	12
65	343,058	343,088	343,010	343,066	342,937	343,034	342,817	342,986	12
66	343,523	343,553	343,474	343,531	343,402	343,499	343,281	343,450	12
67	343,988	344,018	343,939	343,996	343,867	343,964	343,745	343,915	12
68	344,453	344,483	344,404	344,461	344,331	344,429	344,209	344,379	12
69	372,125	372,156	372,076	372,133	372,003	372,100	371,880	372,051	13
70	372,590	372,621	372,541	372,598	372,467	372,565	372,344	372,515	13
71	373,056	373,086	373,006	373,063	372,932	373,030	372,809	372,980	13
72	373,521	373,551	373,471	373,528	373,397	373,495	373,273	373,444	13
73	373,986	374,016	373,936	373,993	373,861	373,960	373,737	373,909	13
74	374,451	374,481	374,401	374,458	374,326	374,425	374,201	374,374	13
75	402,123	402,154	402,073	402,130	401,998	402,096	401,872	402,045	14
76	402,588	402,619	402,538	402,595	402,462	402,561	402,336	402,510	14
77	403,054	403,084	403,003	403,060	402,927	403,026	402,800	402,974	14
78	403,519	403,549	403,468	403,525	403,392	403,491	403,264	403,439	14
79	403,984	404,014	403,933	403,990	403,856	403,956	403,728	403,903	14
80	404,449	404,480	404,398	404,455	404,321	404,421	404,193	404,368	14
81	432,121	432,152	432,070	432,127	431,992	432,093	431,864	432,039	15
82	432,586	432,617	432,535	432,593	432,457	432,557	432,328	432,504	15
83	433,051	433,082	433,000	433,058	432,922	433,022	432,792	432,969	15
84	433,517	433,547	433,465	433,523	433,386	433,487	433,256	433,433	15
85	433,982	434,013	433,929	433,988	433,851	433,952	433,720	433,898	15
86	434,447	434,478	434,394	434,453	434,316	434,417	434,184	434,362	15
87	462,119	462,150	462,066	462,125	461,987	462,089	461,855	462,034	16
88	462,584	462,615	462,531	462,590	462,452	462,554	462,319	462,499	16
89	463,049	463,080	462,996	463,055	462,916	463,019	462,784	462,963	16
90	463,515	463,546	463,461	463,520	463,381	463,483	463,248	463,428	16
91	463,980	464,011	463,926	463,985	463,846	463,948	463,712	463,893	16
92	464,445	464,476	464,391	464,450	464,310	464,413	464,176	464,357	16
93	492,117	492,148	492,063	492,122	491,982	492,085	491,847	492,029	17
94	492,582	492,613	492,528	492,587	492,447	492,550	492,311	492,493	17
95	493,047	493,079	492,993	493,053	492,911	493,015	492,775	492,958	17
96	493,512	493,544	493,458	493,518	493,376	493,480	493,239	493,423	17
97	493,978	494,009	493,923	493,983	493,841	493,945	493,704	493,887	17
98	494,443	494,474	494,388	494,448	494,305	494,410	494,168	494,352	17
99	522,115	522,146	522,060	522,120	521,977	522,082	521,839	522,024	18
100	522,580	522,612	522,525	522,585	522,441	522,547	522,303	522,488	18

Table A.15 — Inspection dimensions W, $\alpha = 37{,}5°$, $m = 0{,}5$, $S_{v\,max} = 0{,}785$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	2,119	2,130	2,108	2,126	2,092	2,120	2,064	2,111	2
7	2,164	2,174	2,153	2,171	2,136	2,165	2,108	2,155	2
8	3,455	3,465	3,443	3,461	3,426	3,456	3,398	3,446	3
9	3,499	3,510	3,488	3,506	3,470	3,500	3,442	3,490	3
10	3,544	3,554	3,532	3,550	3,515	3,545	3,486	3,535	3
11	3,588	3,599	3,577	3,595	3,559	3,589	3,530	3,579	3
12	3,633	3,644	3,621	3,640	3,603	3,634	3,574	3,624	3
13	4,924	4,935	4,912	4,930	4,894	4,924	4,864	4,914	4
14	4,968	4,979	4,956	4,975	4,938	4,969	4,908	4,959	4
15	5,013	5,024	5,001	5,020	4,982	5,013	4,952	5,003	4
16	5,057	5,068	5,045	5,064	5,027	5,058	4,996	5,048	4
17	5,102	5,113	5,090	5,109	5,071	5,102	5,040	5,092	4
18	6,393	6,404	6,380	6,400	6,362	6,393	6,331	6,383	5
19	6,437	6,449	6,425	6,444	6,406	6,438	6,375	6,427	5
20	6,482	6,493	6,469	6,489	6,451	6,482	6,419	6,472	5
21	6,527	6,538	6,514	6,533	6,495	6,527	6,463	6,516	5
22	7,817	7,829	7,805	7,824	7,786	7,818	7,754	7,807	6
23	7,862	7,873	7,849	7,869	7,830	7,862	7,798	7,852	6
24	7,907	7,918	7,894	7,913	7,875	7,907	7,842	7,896	6
25	7,951	7,963	7,938	7,958	7,919	7,951	7,887	7,941	6
26	7,996	8,007	7,983	8,003	7,964	7,996	7,931	7,985	6
27	9,287	9,298	9,274	9,294	9,254	9,287	9,221	9,276	7
28	9,332	9,343	9,318	9,338	9,299	9,331	9,266	9,320	7
29	9,376	9,388	9,363	9,383	9,343	9,376	9,310	9,365	7
30	9,421	9,432	9,408	9,427	9,388	9,421	9,354	9,409	7
31	9,466	9,477	9,452	9,472	9,432	9,465	9,399	9,454	7
32	10,756	10,768	10,743	10,763	10,723	10,756	10,689	10,745	8
33	10,801	10,813	10,788	10,808	10,767	10,801	10,734	10,789	8
34	10,846	10,857	10,832	10,852	10,812	10,845	10,778	10,834	8
35	10,890	10,902	10,877	10,897	10,856	10,890	10,823	10,878	8
36	10,935	10,947	10,921	10,942	10,901	10,934	10,867	10,923	8
37	12,226	12,237	12,212	12,232	12,192	12,225	12,158	12,214	9
38	12,271	12,282	12,257	12,277	12,236	12,270	12,202	12,258	9
39	12,315	12,327	12,301	12,322	12,281	12,314	12,246	12,303	9
40	12,360	12,371	12,346	12,366	12,325	12,359	12,291	12,347	9
41	13,651	13,662	13,637	13,657	13,616	13,650	13,581	13,638	10
42	13,695	13,707	13,681	13,702	13,661	13,694	13,626	13,683	10
43	13,740	13,752	13,726	13,746	13,705	13,739	13,670	13,727	10
44	13,785	13,796	13,771	13,791	13,750	13,784	13,715	13,772	10
45	13,829	13,841	13,815	13,836	13,794	13,828	13,759	13,816	10
46	15,120	15,132	15,106	15,127	15,085	15,119	15,050	15,107	11
47	15,165	15,177	15,151	15,171	15,130	15,164	15,094	15,152	11
48	15,210	15,221	15,195	15,216	15,174	15,208	15,139	15,196	11
49	15,254	15,266	15,240	15,261	15,219	15,253	15,183	15,241	11
50	15,299	15,311	15,285	15,305	15,263	15,298	15,228	15,285	11
51	16,590	16,602	16,576	16,596	16,554	16,588	16,518	16,576	12
52	16,635	16,646	16,620	16,641	16,599	16,633	16,563	16,621	12
53	16,679	16,691	16,665	16,685	16,643	16,678	16,607	16,665	12
54	16,724	16,736	16,710	16,730	16,688	16,722	16,652	16,710	12
55	16,769	16,780	16,754	16,775	16,732	16,767	16,696	16,754	12
56	18,060	18,071	18,045	18,066	18,023	18,058	17,987	18,045	13
57	18,104	18,116	18,090	18,110	18,068	18,102	18,031	18,090	13
58	18,149	18,161	18,134	18,155	18,112	18,147	18,076	18,134	13
59	18,194	18,205	18,179	18,200	18,157	18,192	18,120	18,179	13
60	19,485	19,496	19,470	19,490	19,448	19,482	19,411	19,470	14
61	19,529	19,541	19,514	19,535	19,492	19,527	19,455	19,514	14
62	19,574	19,586	19,559	19,580	19,537	19,572	19,500	19,559	14
63	19,619	19,630	19,604	19,624	19,581	19,616	19,544	19,603	14
64	19,663	19,675	19,648	19,669	19,626	19,661	19,589	19,648	14
65	20,954	20,966	20,939	20,960	20,917	20,952	20,880	20,939	15
66	20,999	21,011	20,984	21,005	20,961	20,996	20,924	20,983	15
67	21,044	21,055	21,029	21,049	21,006	21,041	20,969	21,028	15
68	21,088	21,100	21,073	21,094	21,051	21,086	21,013	21,073	15
69	21,133	21,145	21,118	21,139	21,095	21,130	21,058	21,117	15
70	22,424	22,436	22,409	22,430	22,386	22,421	22,348	22,408	16
71	22,469	22,480	22,453	22,474	22,431	22,466	22,393	22,453	16
72	22,513	22,525	22,498	22,519	22,475	22,510	22,437	22,497	16
73	22,558	22,570	22,543	22,564	22,520	22,555	22,482	22,542	16
74	23,849	23,860	23,834	23,854	23,811	23,846	23,773	23,833	17
75	23,894	23,905	23,878	23,899	23,855	23,891	23,817	23,877	17
76	23,938	23,950	23,923	23,944	23,900	23,935	23,862	23,922	17
77	23,983	23,995	23,968	23,988	23,945	23,980	23,906	23,966	17
78	24,028	24,039	24,012	24,033	23,989	24,025	23,951	24,011	17
79	25,319	25,330	25,303	25,324	25,280	25,315	25,242	25,302	18
80	25,363	25,375	25,348	25,369	25,325	25,360	25,286	25,346	18
81	25,408	25,420	25,392	25,413	25,369	25,405	25,331	25,391	18
82	25,453	25,464	25,437	25,458	25,414	25,449	25,375	25,436	18
83	25,497	25,509	25,482	25,503	25,458	25,494	25,420	25,480	18
84	26,788	26,800	26,773	26,794	26,749	26,785	26,710	26,771	19
85	26,833	26,845	26,817	26,838	26,794	26,829	26,755	26,816	19
86	26,878	26,889	26,862	26,883	26,839	26,874	26,799	26,860	19
87	26,922	26,934	26,907	26,928	26,883	26,919	26,844	26,905	19
88	26,967	26,979	26,951	26,972	26,928	26,963	26,889	26,949	19
89	28,258	28,270	28,242	28,263	28,219	28,254	28,179	28,240	20
90	28,303	28,314	28,287	28,308	28,263	28,299	28,224	28,285	20
91	28,347	28,359	28,332	28,353	28,308	28,344	28,268	28,329	20
92	28,392	28,404	28,376	28,397	28,353	28,388	28,313	28,374	20
93	28,437	28,448	28,421	28,442	28,397	28,433	28,358	28,419	20
94	29,728	29,739	29,712	29,733	29,688	29,724	29,648	29,709	21
95	29,772	29,784	29,756	29,777	29,733	29,768	29,693	29,754	21
96	29,817	29,829	29,801	29,822	29,777	29,813	29,737	29,799	21
97	29,862	29,873	29,846	29,867	29,822	29,858	29,782	29,843	21
98	31,153	31,164	31,137	31,158	31,113	31,149	31,073	31,134	22
99	31,197	31,209	31,181	31,202	31,157	31,193	31,117	31,179	22
100	31,242	31,254	31,226	31,247	31,202	31,238	31,162	31,223	22

Table A.16 — Inspection dimensions W, $\alpha = 37{,}5°$, $m = 0{,}75$, $S_{v\,max} = 1{,}178$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	3,186	3,198	3,173	3,194	3,154	3,188	3,123	3,178	2
7	3,253	3,265	3,240	3,261	3,220	3,255	3,188	3,245	2
8	5,189	5,201	5,176	5,197	5,156	5,191	5,124	5,181	3
9	5,256	5,268	5,242	5,264	5,223	5,258	5,190	5,248	3
10	5,322	5,335	5,309	5,331	5,289	5,325	5,256	5,314	3
11	5,389	5,402	5,376	5,398	5,356	5,391	5,322	5,381	3
12	5,456	5,469	5,443	5,465	5,422	5,458	5,388	5,448	3
13	7,392	7,406	7,379	7,401	7,358	7,394	7,324	7,384	4
14	7,459	7,472	7,446	7,468	7,425	7,461	7,390	7,451	4
15	7,526	7,539	7,512	7,535	7,492	7,528	7,457	7,517	4
16	7,593	7,606	7,579	7,602	7,558	7,595	7,523	7,584	4
17	9,530	9,543	9,515	9,538	9,494	9,531	9,459	9,520	5
18	9,597	9,610	9,582	9,605	9,561	9,598	9,525	9,587	5
19	9,663	9,677	9,649	9,672	9,628	9,665	9,592	9,654	5
20	9,730	9,744	9,716	9,739	9,694	9,732	9,658	9,721	5
21	9,797	9,811	9,783	9,806	9,761	9,799	9,725	9,787	5
22	11,734	11,747	11,719	11,742	11,697	11,735	11,661	11,723	6
23	11,801	11,814	11,786	11,809	11,764	11,802	11,727	11,790	6
24	11,868	11,881	11,853	11,876	11,831	11,869	11,794	11,857	6
25	11,935	11,948	11,920	11,943	11,898	11,936	11,860	11,924	6
26	12,002	12,015	11,987	12,010	11,964	12,003	11,927	11,991	6
27	13,938	13,951	13,923	13,946	13,901	13,939	13,863	13,927	7
28	14,005	14,018	13,990	14,013	13,967	14,006	13,930	13,994	7
29	14,072	14,085	14,057	14,080	14,034	14,073	13,996	14,061	7
30	14,139	14,153	14,124	14,147	14,101	14,140	14,063	14,127	7
31	14,206	14,220	14,191	14,214	14,168	14,206	14,130	14,194	7
32	16,142	16,156	16,127	16,150	16,104	16,143	16,066	16,130	8
33	16,209	16,223	16,194	16,217	16,171	16,210	16,132	16,197	8
34	16,276	16,290	16,261	16,284	16,238	16,277	16,199	16,264	8
35	16,343	16,357	16,328	16,351	16,305	16,343	16,266	16,331	8
36	18,280	18,293	18,264	18,288	18,241	18,280	18,202	18,267	9
37	18,347	18,360	18,331	18,355	18,308	18,347	18,268	18,334	9
38	18,414	18,427	18,398	18,422	18,374	18,414	18,335	18,401	9
39	18,481	18,494	18,465	18,489	18,441	18,481	18,402	18,468	9
40	18,548	18,561	18,532	18,556	18,508	18,548	18,469	18,535	9
41	20,484	20,498	20,468	20,492	20,444	20,484	20,405	20,471	10
42	20,551	20,565	20,535	20,559	20,511	20,551	20,471	20,538	10
43	20,618	20,632	20,602	20,626	20,578	20,618	20,538	20,605	10
44	20,685	20,699	20,669	20,693	20,645	20,685	20,605	20,671	10
45	20,752	20,766	20,736	20,760	20,712	20,752	20,672	20,738	10
46	22,689	22,702	22,673	22,696	22,648	22,688	22,608	22,675	11
47	22,756	22,769	22,740	22,763	22,715	22,755	22,675	22,741	11
48	22,823	22,836	22,807	22,830	22,782	22,822	22,741	22,808	11
49	22,890	22,903	22,874	22,897	22,849	22,889	22,808	22,875	11
50	22,957	22,970	22,941	22,964	22,916	22,956	22,875	22,942	11
51	24,893	24,907	24,877	24,901	24,852	24,892	24,811	24,878	12
52	24,960	24,974	24,944	24,968	24,919	24,959	24,878	24,945	12
53	25,027	25,041	25,011	25,035	24,986	25,026	24,945	25,012	12
54	25,094	25,108	25,078	25,102	25,053	25,093	25,011	25,079	12
55	27,031	27,044	27,014	27,038	26,989	27,029	26,947	27,015	13
56	27,098	27,111	27,081	27,105	27,056	27,096	27,014	27,082	13
57	27,165	27,178	27,148	27,172	27,123	27,163	27,081	27,149	13
58	27,232	27,245	27,215	27,239	27,190	27,230	27,148	27,216	13
59	27,299	27,313	27,282	27,306	27,257	27,297	27,215	27,283	13
60	29,235	29,249	29,218	29,242	29,193	29,233	29,151	29,219	14
61	29,302	29,316	29,285	29,309	29,260	29,300	29,218	29,286	14
62	29,370	29,383	29,353	29,376	29,327	29,367	29,285	29,353	14
63	29,437	29,450	29,420	29,443	29,394	29,434	29,351	29,420	14
64	29,504	29,517	29,487	29,510	29,461	29,501	29,418	29,487	14
65	31,440	31,453	31,423	31,447	31,397	31,438	31,354	31,423	15
66	31,507	31,520	31,490	31,514	31,464	31,504	31,421	31,490	15
67	31,574	31,588	31,557	31,581	31,531	31,571	31,488	31,557	15
68	31,641	31,655	31,624	31,648	31,598	31,638	31,555	31,624	15
69	31,708	31,722	31,691	31,715	31,665	31,705	31,622	31,691	15
70	33,645	33,658	33,627	33,651	33,601	33,642	33,558	33,627	16
71	33,712	33,725	33,694	33,718	33,668	33,709	33,625	33,694	16
72	33,779	33,792	33,761	33,785	33,735	33,776	33,692	33,761	16
73	33,846	33,859	33,828	33,852	33,802	33,843	33,758	33,828	16
74	35,782	35,796	35,765	35,789	35,738	35,779	35,695	35,764	17
75	35,849	35,863	35,832	35,856	35,805	35,846	35,761	35,831	17
76	35,916	35,930	35,899	35,923	35,872	35,913	35,828	35,898	17
77	35,983	35,997	35,966	35,990	35,939	35,980	35,895	35,965	17
78	36,050	36,064	36,033	36,057	36,006	36,047	35,962	36,032	17
79	37,987	38,000	37,969	37,993	37,943	37,983	37,898	37,968	18
80	38,054	38,067	38,036	38,060	38,010	38,050	37,965	38,035	18
81	38,121	38,134	38,103	38,127	38,076	38,117	38,032	38,102	18
82	38,188	38,201	38,170	38,194	38,143	38,184	38,099	38,169	18
83	38,255	38,268	38,237	38,261	38,210	38,251	38,166	38,236	18
84	40,191	40,205	40,174	40,198	40,147	40,188	40,102	40,172	19
85	40,259	40,272	40,241	40,265	40,214	40,255	40,169	40,239	19
86	40,326	40,339	40,308	40,332	40,281	40,322	40,236	40,306	19
87	40,393	40,406	40,375	40,399	40,348	40,389	40,303	40,373	19
88	40,460	40,473	40,442	40,466	40,415	40,456	40,370	40,440	19
89	42,396	42,409	42,378	42,402	42,351	42,392	42,306	42,376	20
90	42,463	42,476	42,445	42,469	42,418	42,459	42,373	42,443	20
91	42,530	42,544	42,512	42,536	42,485	42,526	42,439	42,510	20
92	42,597	42,611	42,579	42,603	42,552	42,593	42,506	42,577	20
93	42,664	42,678	42,646	42,670	42,619	42,660	42,573	42,644	20
94	44,601	44,614	44,583	44,607	44,555	44,596	44,509	44,580	21
95	44,668	44,681	44,650	44,674	44,622	44,663	44,576	44,647	21
96	44,735	44,748	44,717	44,741	44,689	44,730	44,643	44,714	21
97	44,802	44,815	44,784	44,808	44,756	44,797	44,710	44,781	21
98	46,738	46,752	46,720	46,744	46,692	46,733	46,646	46,717	22
99	46,805	46,819	46,787	46,811	46,759	46,800	46,713	46,784	22
100	46,873	46,886	46,854	46,878	46,826	46,867	46,780	46,851	22

Table A.17 — Inspection dimensions W, $\alpha = 37{,}5°$, $m = 1$, $S_{v\,max} = 1{,}571$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	4,252	4,267	4,239	4,262	4,218	4,256	4,183	4,246	2
7	4,342	4,356	4,328	4,351	4,306	4,345	4,271	4,335	2
8	6,923	6,938	6,909	6,933	6,887	6,927	6,852	6,916	3
9	7,012	7,027	6,998	7,022	6,976	7,016	6,940	7,005	3
10	7,102	7,116	7,087	7,112	7,065	7,105	7,028	7,094	3
11	7,191	7,205	7,176	7,201	7,154	7,194	7,117	7,183	3
12	7,280	7,295	7,265	7,290	7,243	7,283	7,205	7,272	3
13	9,862	9,877	9,847	9,872	9,824	9,865	9,786	9,853	4
14	9,951	9,966	9,936	9,961	9,913	9,954	9,875	9,943	4
15	10,040	10,055	10,025	10,050	10,002	10,043	9,964	10,032	4
16	10,130	10,145	10,114	10,140	10,091	10,132	10,052	10,121	4
17	12,712	12,726	12,696	12,721	12,673	12,714	12,634	12,702	5
18	12,801	12,816	12,785	12,810	12,762	12,803	12,722	12,791	5
19	12,890	12,905	12,874	12,900	12,851	12,892	12,811	12,880	5
20	12,980	12,994	12,964	12,989	12,940	12,982	12,900	12,969	5
21	13,069	13,084	13,053	13,078	13,029	13,071	12,989	13,059	5
22	15,651	15,665	15,635	15,660	15,610	15,652	15,570	15,640	6
23	15,740	15,755	15,724	15,749	15,699	15,742	15,659	15,729	6
24	15,829	15,844	15,813	15,839	15,789	15,831	15,748	15,818	6
25	15,919	15,934	15,902	15,928	15,878	15,920	15,837	15,908	6
26	16,008	16,023	15,992	16,017	15,967	16,009	15,926	15,997	6
27	18,590	18,605	18,573	18,599	18,548	18,591	18,507	18,578	7
28	18,679	18,694	18,663	18,688	18,638	18,680	18,596	18,667	7
29	18,769	18,784	18,752	18,778	18,727	18,770	18,685	18,757	7
30	18,858	18,873	18,841	18,867	18,816	18,859	18,774	18,846	7
31	18,947	18,962	18,930	18,956	18,905	18,948	18,863	18,935	7
32	21,529	21,544	21,512	21,538	21,487	21,530	21,444	21,516	8
33	21,619	21,633	21,601	21,627	21,576	21,619	21,533	21,606	8
34	21,708	21,723	21,691	21,717	21,665	21,708	21,622	21,695	8
35	21,797	21,812	21,780	21,806	21,754	21,798	21,711	21,784	8
36	24,379	24,394	24,362	24,388	24,336	24,379	24,293	24,366	9
37	24,468	24,483	24,451	24,477	24,425	24,469	24,382	24,455	9
38	24,558	24,573	24,541	24,567	24,514	24,558	24,471	24,544	9
39	24,647	24,662	24,630	24,656	24,604	24,647	24,560	24,633	9
40	24,737	24,752	24,719	24,745	24,693	24,736	24,649	24,722	9
41	27,318	27,333	27,301	27,327	27,275	27,318	27,231	27,304	10
42	27,408	27,423	27,390	27,416	27,364	27,407	27,320	27,393	10
43	27,497	27,512	27,480	27,506	27,453	27,497	27,409	27,482	10
44	27,587	27,602	27,569	27,595	27,542	27,586	27,498	27,572	10
45	27,676	27,691	27,658	27,685	27,632	27,675	27,587	27,661	10
46	30,258	30,273	30,240	30,266	30,213	30,257	30,168	30,243	11
47	30,347	30,362	30,329	30,356	30,302	30,346	30,258	30,332	11
48	30,437	30,452	30,419	30,445	30,392	30,436	30,347	30,421	11
49	30,526	30,541	30,508	30,534	30,481	30,525	30,436	30,510	11
50	30,616	30,630	30,597	30,624	30,570	30,614	30,525	30,599	11
51	33,197	33,212	33,179	33,206	33,152	33,196	33,107	33,181	12
52	33,287	33,302	33,269	33,295	33,241	33,285	33,196	33,270	12
53	33,376	33,391	33,358	33,384	33,331	33,375	33,285	33,360	12
54	33,466	33,481	33,447	33,474	33,420	33,464	33,374	33,449	12
55	36,047	36,062	36,029	36,055	36,001	36,046	35,955	36,030	13
56	36,137	36,152	36,118	36,145	36,091	36,135	36,045	36,120	13
57	36,226	36,241	36,208	36,234	36,180	36,224	36,134	36,209	13
58	36,316	36,331	36,297	36,324	36,269	36,314	36,223	36,298	13
59	36,405	36,420	36,387	36,413	36,359	36,403	36,312	36,387	13
60	38,987	39,002	38,968	38,995	38,940	38,985	38,894	38,969	14
61	39,076	39,091	39,058	39,084	39,030	39,074	38,983	39,058	14
62	39,166	39,181	39,147	39,173	39,119	39,163	39,072	39,148	14
63	39,255	39,270	39,236	39,263	39,208	39,253	39,161	39,237	14
64	39,345	39,359	39,326	39,352	39,298	39,342	39,250	39,326	14
65	41,927	41,941	41,908	41,934	41,879	41,924	41,832	41,908	15
66	42,016	42,031	41,997	42,023	41,969	42,013	41,921	41,997	15
67	42,105	42,120	42,086	42,113	42,058	42,102	42,010	42,086	15
68	42,195	42,210	42,176	42,202	42,147	42,192	42,100	42,176	15
69	42,284	42,299	42,265	42,292	42,236	42,281	42,189	42,265	15
70	44,866	44,881	44,847	44,873	44,818	44,863	44,770	44,846	16
71	44,956	44,970	44,936	44,963	44,908	44,952	44,860	44,936	16
72	45,045	45,060	45,026	45,052	44,997	45,042	44,949	45,025	16
73	45,134	45,149	45,115	45,142	45,086	45,131	45,038	45,114	16
74	45,224	45,239	45,204	45,231	45,175	45,220	45,127	45,204	16
75	47,806	47,820	47,786	47,813	47,757	47,802	47,709	47,785	17
76	47,895	47,910	47,876	47,902	47,847	47,891	47,798	47,875	17
77	47,985	47,999	47,965	47,991	47,936	47,981	47,887	47,964	17
78	48,074	48,089	48,054	48,081	48,025	48,070	47,976	48,053	17
79	50,656	50,670	50,636	50,663	50,607	50,652	50,558	50,635	18
80	50,745	50,760	50,726	50,752	50,696	50,741	50,647	50,724	18
81	50,835	50,849	50,815	50,841	50,786	50,830	50,736	50,813	18
82	50,924	50,939	50,904	50,931	50,875	50,920	50,826	50,903	18
83	51,014	51,028	50,994	51,020	50,964	51,009	50,915	50,992	18
84	53,595	53,610	53,576	53,602	53,546	53,591	53,497	53,574	19
85	53,685	53,699	53,665	53,691	53,635	53,680	53,586	53,663	19
86	53,774	53,789	53,754	53,781	53,725	53,770	53,675	53,752	19
87	53,864	53,878	53,844	53,870	53,814	53,859	53,764	53,841	19
88	53,953	53,968	53,933	53,960	53,903	53,948	53,853	53,931	19
89	56,535	56,550	56,515	56,541	56,485	56,530	56,435	56,512	20
90	56,624	56,639	56,604	56,631	56,574	56,619	56,524	56,602	20
91	56,714	56,728	56,694	56,720	56,664	56,709	56,614	56,691	20
92	56,803	56,818	56,783	56,810	56,753	56,798	56,703	56,780	20
93	56,893	56,907	56,873	56,899	56,842	56,887	56,792	56,870	20
94	59,475	59,489	59,454	59,481	59,424	59,469	59,374	59,451	21
95	59,564	59,579	59,544	59,570	59,514	59,559	59,463	59,541	21
96	59,654	59,668	59,633	59,660	59,603	59,648	59,552	59,630	21
97	59,743	59,757	59,723	59,749	59,692	59,737	59,642	59,719	21
98	62,325	62,339	62,304	62,331	62,274	62,319	62,223	62,301	22
99	62,414	62,429	62,394	62,420	62,363	62,408	62,312	62,390	22
100	62,504	62,518	62,483	62,510	62,453	62,498	62,402	62,480	22

Table A.18 — Inspection dimensions W, $\alpha = 37{,}5°$, $m = 1{,}25$, $S_{v\,max} = 1{,}963$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	5,320	5,335	5,305	5,331	5,282	5,324	5,245	5,313	2
7	5,431	5,447	5,416	5,442	5,393	5,435	5,355	5,424	2
8	8,658	8,674	8,643	8,669	8,620	8,662	8,581	8,651	3
9	8,770	8,785	8,754	8,781	8,731	8,774	8,692	8,762	3
10	8,881	8,897	8,866	8,892	8,842	8,885	8,802	8,874	3
11	8,993	9,009	8,977	9,004	8,953	8,997	8,913	8,985	3
12	9,105	9,120	9,088	9,115	9,064	9,108	9,024	9,096	3
13	12,332	12,348	12,315	12,343	12,291	12,335	12,250	12,323	4
14	12,443	12,459	12,427	12,454	12,402	12,447	12,361	12,435	4
15	12,555	12,571	12,538	12,566	12,514	12,558	12,472	12,546	4
16	12,667	12,683	12,650	12,677	12,625	12,670	12,583	12,657	4
17	15,894	15,910	15,877	15,904	15,852	15,897	15,810	15,884	5
18	16,006	16,022	15,989	16,016	15,963	16,008	15,921	15,996	5
19	16,117	16,133	16,100	16,128	16,075	16,120	16,032	16,107	5
20	16,229	16,245	16,212	16,239	16,186	16,231	16,143	16,219	5
21	16,341	16,357	16,323	16,351	16,298	16,343	16,254	16,330	5
22	19,568	19,584	19,551	19,578	19,524	19,570	19,481	19,557	6
23	19,680	19,696	19,662	19,690	19,636	19,682	19,592	19,668	6
24	19,791	19,807	19,774	19,802	19,747	19,793	19,703	19,780	6
25	19,903	19,919	19,885	19,913	19,859	19,905	19,815	19,891	6
26	20,015	20,031	19,997	20,025	19,970	20,016	19,926	20,003	6
27	23,242	23,258	23,224	23,252	23,197	23,243	23,153	23,230	7
28	23,354	23,370	23,336	23,364	23,309	23,355	23,264	23,341	7
29	23,465	23,482	23,447	23,475	23,420	23,467	23,375	23,453	7
30	23,577	23,593	23,559	23,587	23,532	23,578	23,487	23,564	7
31	23,689	23,705	23,671	23,699	23,643	23,690	23,598	23,676	7
32	26,916	26,932	26,898	26,926	26,871	26,917	26,825	26,903	8
33	27,028	27,044	27,010	27,038	26,982	27,029	26,936	27,014	8
34	27,140	27,156	27,121	27,149	27,094	27,140	27,048	27,126	8
35	27,252	27,268	27,233	27,261	27,205	27,252	27,159	27,237	8
36	27,363	27,379	27,345	27,373	27,317	27,364	27,270	27,349	8
37	30,591	30,607	30,572	30,600	30,544	30,591	30,497	30,576	9
38	30,702	30,718	30,684	30,712	30,655	30,702	30,609	30,688	9
39	30,814	30,830	30,795	30,823	30,767	30,814	30,720	30,799	9
40	30,926	30,942	30,907	30,935	30,879	30,926	30,831	30,911	9
41	34,153	34,169	34,134	34,162	34,106	34,153	34,058	34,138	10
42	34,265	34,281	34,246	34,274	34,217	34,264	34,170	34,249	10
43	34,377	34,393	34,358	34,386	34,329	34,376	34,281	34,361	10
44	34,488	34,505	34,469	34,498	34,440	34,488	34,393	34,472	10
45	34,600	34,616	34,581	34,609	34,552	34,599	34,504	34,584	10
46	37,827	37,844	37,808	37,836	37,779	37,826	37,731	37,811	11
47	37,939	37,955	37,920	37,948	37,891	37,938	37,842	37,922	11
48	38,051	38,067	38,032	38,060	38,002	38,050	37,954	38,034	11
49	38,163	38,179	38,143	38,172	38,114	38,161	38,065	38,146	11
50	38,275	38,291	38,255	38,283	38,226	38,273	38,177	38,257	11
51	41,502	41,518	41,482	41,511	41,453	41,500	41,404	41,484	12
52	41,614	41,630	41,594	41,622	41,564	41,612	41,515	41,596	12
53	41,725	41,741	41,706	41,734	41,676	41,724	41,627	41,707	12
54	41,837	41,853	41,817	41,846	41,788	41,835	41,738	41,819	12
55	41,949	41,965	41,929	41,958	41,899	41,947	41,850	41,931	12
56	45,176	45,192	45,156	45,185	45,127	45,174	45,077	45,158	13
57	45,288	45,304	45,268	45,297	45,238	45,286	45,188	45,269	13
58	45,400	45,416	45,380	45,408	45,350	45,398	45,300	45,381	13
59	45,512	45,528	45,492	45,520	45,461	45,509	45,411	45,492	13
60	48,739	48,755	48,719	48,747	48,689	48,736	48,638	48,720	14
61	48,851	48,867	48,831	48,859	48,800	48,848	48,750	48,831	14
62	48,963	48,978	48,942	48,971	48,912	48,960	48,861	48,943	14
63	49,074	49,090	49,054	49,082	49,024	49,071	48,973	49,054	14
64	49,186	49,202	49,166	49,194	49,135	49,183	49,084	49,166	14
65	52,413	52,429	52,393	52,421	52,362	52,410	52,311	52,393	15
66	52,525	52,541	52,505	52,533	52,474	52,522	52,423	52,505	15
67	52,637	52,653	52,617	52,645	52,586	52,634	52,534	52,616	15
68	52,749	52,765	52,728	52,757	52,697	52,745	52,646	52,728	15
69	52,861	52,877	52,840	52,868	52,809	52,857	52,758	52,839	15
70	56,088	56,104	56,067	56,096	56,036	56,084	55,985	56,067	16
71	56,200	56,216	56,179	56,207	56,148	56,196	56,096	56,178	16
72	56,312	56,327	56,291	56,319	56,260	56,308	56,208	56,290	16
73	56,423	56,439	56,403	56,431	56,371	56,419	56,319	56,401	16
74	56,535	56,551	56,514	56,543	56,483	56,531	56,431	56,513	16
75	59,763	59,778	59,742	59,770	59,710	59,758	59,658	59,740	17
76	59,874	59,890	59,853	59,882	59,822	59,870	59,769	59,852	17
77	59,986	60,002	59,965	59,993	59,934	59,982	59,881	59,963	17
78	60,098	60,114	60,077	60,105	60,045	60,093	59,993	60,075	17
79	63,325	63,341	63,304	63,332	63,272	63,321	63,220	63,302	18
80	63,437	63,453	63,416	63,444	63,384	63,432	63,331	63,414	18
81	63,549	63,565	63,528	63,556	63,496	63,544	63,443	63,525	18
82	63,661	63,676	63,639	63,668	63,608	63,656	63,554	63,637	18
83	63,773	63,788	63,751	63,779	63,719	63,767	63,666	63,749	18
84	67,000	67,015	66,978	67,007	66,946	66,995	66,893	66,976	19
85	67,112	67,127	67,090	67,119	67,058	67,106	67,005	67,087	19
86	67,223	67,239	67,202	67,230	67,170	67,218	67,116	67,199	19
87	67,335	67,351	67,314	67,342	67,281	67,330	67,228	67,311	19
88	67,447	67,463	67,426	67,454	67,393	67,441	67,339	67,422	19
89	70,674	70,690	70,653	70,681	70,620	70,669	70,566	70,650	20
90	70,786	70,802	70,765	70,793	70,732	70,780	70,678	70,761	20
91	70,898	70,914	70,876	70,905	70,844	70,892	70,790	70,873	20
92	71,010	71,025	70,988	71,016	70,956	71,004	70,901	70,984	20
93	71,122	71,137	71,100	71,128	71,067	71,116	71,013	71,096	20
94	74,349	74,364	74,327	74,355	74,294	74,343	74,240	74,323	21
95	74,461	74,476	74,439	74,467	74,406	74,454	74,351	74,435	21
96	74,573	74,588	74,551	74,579	74,518	74,566	74,463	74,547	21
97	74,684	74,700	74,662	74,691	74,630	74,678	74,575	74,658	21
98	74,796	74,812	74,774	74,802	74,741	74,790	74,686	74,770	21
99	78,024	78,039	78,002	78,030	77,968	78,017	77,913	77,997	22
100	78,135	78,151	78,113	78,142	78,080	78,129	78,025	78,109	22

Table A.19 — Inspection dimensions W, $\alpha = 37{,}5°$, $m = 1{,}5$, $S_{v\,max} = 2{,}356$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	6,387	6,404	6,371	6,399	6,347	6,392	6,307	6,381	2
7	6,521	6,538	6,505	6,533	6,480	6,526	6,440	6,514	2
8	10,393	10,410	10,377	10,405	10,352	10,398	10,311	10,386	3
9	10,527	10,544	10,511	10,539	10,486	10,532	10,444	10,520	3
10	10,661	10,678	10,644	10,673	10,619	10,666	10,577	10,654	3
11	10,795	10,812	10,778	10,807	10,753	10,799	10,710	10,787	3
12	10,929	10,946	10,912	10,941	10,886	10,933	10,843	10,921	3
13	14,802	14,819	14,784	14,813	14,758	14,806	14,715	14,793	4
14	14,936	14,953	14,918	14,947	14,892	14,939	14,848	14,927	4
15	15,070	15,087	15,052	15,081	15,026	15,073	14,982	15,061	4
16	15,204	15,221	15,186	15,215	15,159	15,207	15,115	15,194	4
17	15,338	15,355	15,320	15,349	15,293	15,341	15,248	15,328	4
18	19,210	19,228	19,192	19,222	19,165	19,214	19,120	19,200	5
19	19,345	19,362	19,326	19,356	19,299	19,347	19,254	19,334	5
20	19,479	19,496	19,460	19,490	19,433	19,481	19,387	19,468	5
21	19,613	19,630	19,594	19,624	19,567	19,615	19,521	19,602	5
22	23,485	23,503	23,467	23,496	23,439	23,488	23,393	23,474	6
23	23,619	23,637	23,601	23,631	23,573	23,622	23,527	23,608	6
24	23,754	23,771	23,735	23,765	23,707	23,756	23,660	23,742	6
25	23,888	23,905	23,869	23,899	23,841	23,890	23,794	23,875	6
26	24,022	24,039	24,003	24,033	23,975	24,024	23,927	24,009	6
27	27,894	27,912	27,875	27,905	27,847	27,896	27,799	27,882	7
28	28,029	28,046	28,009	28,039	27,981	28,030	27,933	28,016	7
29	28,163	28,180	28,143	28,173	28,115	28,164	28,067	28,149	7
30	28,297	28,314	28,277	28,307	28,249	28,298	28,200	28,283	7
31	28,431	28,448	28,412	28,441	28,382	28,432	28,334	28,417	7
32	32,304	32,321	32,284	32,314	32,255	32,304	32,206	32,289	8
33	32,438	32,455	32,418	32,448	32,389	32,438	32,340	32,423	8
34	32,572	32,589	32,552	32,582	32,523	32,572	32,474	32,557	8
35	32,706	32,723	32,686	32,716	32,657	32,706	32,607	32,691	8
36	32,840	32,857	32,820	32,850	32,791	32,840	32,741	32,825	8
37	36,713	36,730	36,693	36,723	36,663	36,713	36,613	36,697	9
38	36,847	36,864	36,827	36,857	36,797	36,847	36,747	36,831	9
39	36,981	36,998	36,961	36,991	36,931	36,981	36,881	36,965	9
40	37,115	37,132	37,095	37,125	37,065	37,115	37,015	37,099	9
41	40,988	41,005	40,968	40,998	40,938	40,988	40,887	40,971	10
42	41,122	41,139	41,102	41,132	41,071	41,122	41,021	41,105	10
43	41,256	41,273	41,236	41,266	41,205	41,256	41,155	41,239	10
44	41,390	41,407	41,370	41,400	41,339	41,390	41,288	41,373	10
45	41,525	41,542	41,504	41,534	41,473	41,524	41,422	41,507	10
46	45,397	45,414	45,377	45,407	45,346	45,396	45,295	45,380	11
47	45,531	45,548	45,511	45,541	45,480	45,530	45,428	45,513	11
48	45,666	45,683	45,645	45,675	45,614	45,664	45,562	45,647	11
49	45,800	45,817	45,779	45,809	45,748	45,798	45,696	45,781	11
50	45,934	45,951	45,913	45,943	45,882	45,932	45,830	45,915	11
51	49,807	49,824	49,786	49,816	49,754	49,805	49,702	49,788	12
52	49,941	49,958	49,920	49,950	49,888	49,939	49,836	49,922	12
53	50,075	50,092	50,054	50,084	50,022	50,073	49,970	50,056	12
54	50,209	50,226	50,188	50,218	50,156	50,207	50,104	50,190	12
55	50,343	50,360	50,322	50,352	50,290	50,341	50,237	50,323	12
56	54,216	54,233	54,195	54,225	54,163	54,214	54,110	54,196	13
57	54,350	54,367	54,329	54,359	54,297	54,348	54,244	54,330	13
58	54,484	54,501	54,463	54,493	54,431	54,482	54,378	54,464	13
59	54,619	54,635	54,597	54,627	54,565	54,616	54,512	54,598	13
60	58,491	58,508	58,470	58,500	58,438	58,488	58,384	58,470	14
61	58,625	58,642	58,604	58,634	58,572	58,622	58,518	58,604	14
62	58,760	58,776	58,738	58,768	58,706	58,756	58,652	58,738	14
63	58,894	58,911	58,872	58,902	58,840	58,890	58,786	58,872	14
64	59,028	59,045	59,006	59,036	58,974	59,024	58,919	59,006	14
65	62,901	62,918	62,879	62,909	62,846	62,897	62,792	62,879	15
66	63,035	63,052	63,013	63,043	62,980	63,031	62,926	63,013	15
67	63,169	63,186	63,147	63,177	63,114	63,165	63,060	63,147	15
68	63,303	63,320	63,281	63,311	63,248	63,299	63,194	63,281	15
69	63,437	63,454	63,415	63,445	63,382	63,433	63,327	63,415	15
70	67,310	67,327	67,288	67,318	67,255	67,306	67,200	67,287	16
71	67,444	67,461	67,422	67,452	67,389	67,440	67,334	67,421	16
72	67,579	67,595	67,556	67,586	67,523	67,574	67,468	67,555	16
73	67,713	67,729	67,691	67,721	67,657	67,708	67,602	67,689	16
74	67,847	67,864	67,825	67,855	67,791	67,842	67,736	67,823	16
75	71,720	71,736	71,697	71,727	71,664	71,715	71,608	71,695	17
76	71,854	71,870	71,832	71,861	71,798	71,849	71,742	71,829	17
77	71,988	72,005	71,966	71,996	71,932	71,983	71,876	71,963	17
78	72,122	72,139	72,100	72,130	72,066	72,117	72,010	72,097	17
79	72,256	72,273	72,234	72,264	72,200	72,251	72,144	72,231	17
80	76,129	76,146	76,107	76,137	76,073	76,124	76,016	76,104	18
81	76,263	76,280	76,241	76,271	76,207	76,258	76,150	76,238	18
82	76,398	76,414	76,375	76,405	76,341	76,392	76,284	76,372	18
83	76,532	76,548	76,509	76,539	76,475	76,526	76,418	76,506	18
84	80,405	80,421	80,382	80,412	80,348	80,399	80,291	80,379	19
85	80,539	80,555	80,516	80,546	80,482	80,533	80,425	80,512	19
86	80,673	80,689	80,650	80,680	80,616	80,667	80,559	80,646	19
87	80,807	80,823	80,784	80,814	80,750	80,801	80,692	80,780	19
88	80,941	80,958	80,918	80,948	80,884	80,935	80,826	80,914	19
89	84,814	84,830	84,791	84,821	84,757	84,808	84,699	84,787	20
90	84,948	84,965	84,925	84,955	84,891	84,942	84,833	84,921	20
91	85,082	85,099	85,059	85,089	85,025	85,076	84,967	85,055	20
92	85,217	85,233	85,193	85,223	85,159	85,210	85,101	85,189	20
93	85,351	85,367	85,328	85,357	85,293	85,344	85,235	85,323	20
94	89,224	89,240	89,200	89,230	89,165	89,217	89,107	89,196	21
95	89,358	89,374	89,335	89,364	89,300	89,351	89,241	89,330	21
96	89,492	89,508	89,469	89,498	89,434	89,485	89,375	89,464	21
97	89,626	89,642	89,603	89,633	89,568	89,619	89,509	89,598	21
98	89,760	89,777	89,737	89,767	89,702	89,753	89,643	89,732	21
99	93,633	93,649	93,610	93,639	93,574	93,626	93,516	93,604	22
100	93,767	93,784	93,744	93,774	93,709	93,760	93,650	93,738	22

Table A.20 — Inspection dimensions W, $\alpha = 37{,}5°$, $m = 1{,}75$, $S_{v\,max} = 2{,}749$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	7,454	7,472	7,438	7,467	7,412	7,460	7,370	7,448	2
7	7,611	7,628	7,594	7,623	7,568	7,616	7,525	7,604	2
8	12,129	12,146	12,111	12,141	12,085	12,134	12,042	12,122	3
9	12,285	12,303	12,267	12,298	12,241	12,290	12,197	12,278	3
10	12,441	12,459	12,423	12,454	12,397	12,446	12,353	12,434	3
11	12,598	12,616	12,580	12,610	12,553	12,602	12,508	12,590	3
12	12,754	12,772	12,736	12,766	12,709	12,758	12,664	12,746	3
13	17,272	17,290	17,254	17,284	17,226	17,276	17,181	17,263	4
14	17,428	17,446	17,410	17,441	17,382	17,432	17,336	17,419	4
15	17,585	17,603	17,566	17,597	17,538	17,589	17,492	17,575	4
16	17,741	17,759	17,722	17,753	17,694	17,745	17,648	17,731	4
17	17,898	17,916	17,879	17,910	17,850	17,901	17,803	17,887	4
18	22,416	22,434	22,397	22,428	22,368	22,419	22,321	22,405	5
19	22,572	22,590	22,553	22,584	22,524	22,575	22,477	22,561	5
20	22,728	22,747	22,709	22,740	22,680	22,731	22,632	22,717	5
21	22,885	22,903	22,866	22,897	22,837	22,888	22,788	22,873	5
22	27,403	27,421	27,384	27,415	27,354	27,406	27,306	27,391	6
23	27,560	27,578	27,540	27,571	27,511	27,562	27,462	27,547	6
24	27,716	27,734	27,696	27,728	27,667	27,718	27,617	27,704	6
25	27,872	27,891	27,853	27,884	27,823	27,875	27,773	27,860	6
26	28,029	28,047	28,009	28,040	27,979	28,031	27,929	28,016	6
27	32,547	32,565	32,527	32,558	32,497	32,549	32,447	32,534	7
28	32,704	32,722	32,683	32,715	32,653	32,705	32,603	32,690	7
29	32,860	32,878	32,840	32,871	32,809	32,861	32,759	32,846	7
30	33,017	33,035	32,996	33,028	32,966	33,018	32,915	33,002	7
31	33,173	33,191	33,153	33,184	33,122	33,174	33,071	33,158	7
32	37,691	37,709	37,671	37,702	37,640	37,692	37,589	37,676	8
33	37,848	37,866	37,827	37,859	37,796	37,848	37,745	37,832	8
34	38,004	38,022	37,983	38,015	37,952	38,005	37,901	37,989	8
35	38,161	38,179	38,140	38,171	38,109	38,161	38,057	38,145	8
36	38,317	38,335	38,296	38,328	38,265	38,317	38,213	38,301	8
37	42,835	42,853	42,814	42,846	42,783	42,835	42,731	42,819	9
38	42,992	43,010	42,971	43,002	42,939	42,992	42,887	42,975	9
39	43,148	43,166	43,127	43,159	43,096	43,148	43,043	43,131	9
40	43,305	43,323	43,284	43,315	43,252	43,304	43,199	43,288	9
41	47,823	47,841	47,802	47,833	47,770	47,822	47,717	47,806	10
42	47,980	47,998	47,958	47,990	47,926	47,979	47,873	47,962	10
43	48,136	48,154	48,115	48,146	48,082	48,135	48,029	48,118	10
44	48,293	48,311	48,271	48,303	48,239	48,292	48,185	48,274	10
45	48,449	48,467	48,428	48,459	48,395	48,448	48,341	48,431	10
46	52,967	52,985	52,946	52,977	52,913	52,966	52,859	52,948	11
47	53,124	53,142	53,102	53,134	53,069	53,122	53,015	53,105	11
48	53,280	53,298	53,259	53,290	53,226	53,279	53,171	53,261	11
49	53,437	53,455	53,415	53,447	53,382	53,435	53,327	53,417	11
50	53,593	53,611	53,571	53,603	53,539	53,591	53,484	53,573	11
51	58,112	58,129	58,090	58,121	58,057	58,110	58,001	58,091	12
52	58,268	58,286	58,246	58,278	58,213	58,266	58,158	58,248	12
53	58,425	58,442	58,403	58,434	58,369	58,422	58,314	58,404	12
54	58,581	58,599	58,559	58,591	58,526	58,579	58,470	58,560	12
55	58,738	58,756	58,715	58,747	58,682	58,735	58,626	58,717	12
56	63,256	63,274	63,234	63,265	63,200	63,253	63,144	63,235	13
57	63,413	63,430	63,390	63,422	63,356	63,410	63,300	63,391	13
58	63,569	63,587	63,547	63,578	63,513	63,566	63,456	63,547	13
59	63,726	63,743	63,703	63,735	63,669	63,722	63,613	63,703	13
60	68,244	68,261	68,221	68,253	68,187	68,240	68,131	68,221	14
61	68,400	68,418	68,378	68,409	68,344	68,397	68,287	68,378	14
62	68,557	68,575	68,534	68,566	68,500	68,553	68,443	68,534	14
63	68,713	68,731	68,691	68,722	68,656	68,710	68,599	68,690	14
64	68,870	68,888	68,847	68,879	68,813	68,866	68,755	68,847	14
65	73,388	73,406	73,365	73,397	73,331	73,384	73,273	73,365	15
66	73,545	73,562	73,522	73,553	73,487	73,540	73,430	73,521	15
67	73,701	73,719	73,678	73,710	73,644	73,697	73,586	73,677	15
68	73,858	73,875	73,835	73,866	73,800	73,853	73,742	73,833	15
69	74,014	74,032	73,991	74,023	73,956	74,010	73,898	73,990	15
70	78,533	78,550	78,509	78,541	78,475	78,528	78,416	78,508	16
71	78,689	78,707	78,666	78,697	78,631	78,684	78,573	78,664	16
72	78,846	78,863	78,822	78,854	78,787	78,841	78,729	78,820	16
73	79,002	79,020	78,979	79,010	78,944	78,997	78,885	78,977	16
74	79,159	79,176	79,135	79,167	79,100	79,153	79,041	79,133	16
75	83,677	83,694	83,654	83,685	83,618	83,672	83,559	83,651	17
76	83,834	83,851	83,810	83,841	83,775	83,828	83,716	83,807	17
77	83,990	84,008	83,967	83,998	83,931	83,984	83,872	83,964	17
78	84,147	84,164	84,123	84,154	84,087	84,141	84,028	84,120	17
79	84,303	84,321	84,280	84,311	84,244	84,297	84,184	84,276	17
80	88,822	88,839	88,798	88,829	88,762	88,815	88,702	88,794	18
81	88,978	88,995	88,954	88,986	88,918	88,972	88,859	88,951	18
82	89,135	89,152	89,111	89,142	89,075	89,128	89,015	89,107	18
83	89,291	89,308	89,267	89,299	89,231	89,285	89,171	89,263	18
84	93,810	93,827	93,785	93,817	93,749	93,803	93,689	93,781	19
85	93,966	93,983	93,942	93,973	93,906	93,959	93,846	93,938	19
86	94,123	94,140	94,098	94,130	94,062	94,116	94,002	94,094	19
87	94,279	94,296	94,255	94,286	94,219	94,272	94,158	94,250	19
88	94,436	94,453	94,411	94,443	94,375	94,429	94,314	94,407	19
89	98,954	98,971	98,930	98,961	98,893	98,947	98,832	98,925	20
90	99,111	99,128	99,086	99,117	99,050	99,103	98,989	99,081	20
91	99,267	99,284	99,243	99,274	99,206	99,260	99,145	99,238	20
92	99,424	99,441	99,399	99,430	99,363	99,416	99,301	99,394	20
93	99,580	99,597	99,556	99,587	99,519	99,572	99,458	99,550	20
94	104,099	104,115	104,074	104,105	104,037	104,091	103,976	104,068	21
95	104,255	104,272	104,230	104,262	104,194	104,247	104,132	104,225	21
96	104,412	104,429	104,387	104,418	104,350	104,403	104,288	104,381	21
97	104,568	104,585	104,543	104,575	104,506	104,560	104,445	104,537	21
98	104,725	104,742	104,700	104,731	104,663	104,716	104,601	104,694	21
99	109,243	109,260	109,218	109,249	109,181	109,234	109,119	109,212	22
100	109,400	109,416	109,375	109,406	109,337	109,391	109,275	109,368	22

Table A.21 — Inspection dimensions W, $\alpha = 37{,}5°$, $m = 2$, $S_{v\,max} = 3{,}142$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	8,522	8,541	8,504	8,535	8,478	8,528	8,434	8,516	2
7	8,701	8,719	8,683	8,714	8,656	8,706	8,611	8,694	2
8	13,864	13,883	13,846	13,877	13,819	13,870	13,774	13,857	3
9	14,043	14,061	14,024	14,056	13,997	14,048	13,951	14,035	3
10	14,221	14,240	14,203	14,235	14,175	14,227	14,129	14,214	3
11	14,400	14,419	14,381	14,413	14,353	14,405	14,306	14,392	3
12	14,579	14,598	14,560	14,592	14,532	14,584	14,484	14,570	3
13	19,742	19,761	19,723	19,755	19,695	19,747	19,647	19,733	4
14	19,921	19,940	19,902	19,934	19,873	19,925	19,825	19,912	4
15	20,100	20,119	20,080	20,113	20,051	20,104	20,003	20,090	4
16	20,279	20,298	20,259	20,291	20,230	20,283	20,181	20,269	4
17	20,457	20,476	20,438	20,470	20,408	20,461	20,359	20,447	4
18	25,621	25,640	25,601	25,634	25,571	25,624	25,522	25,610	5
19	25,800	25,819	25,780	25,812	25,750	25,803	25,700	25,789	5
20	25,979	25,997	25,958	25,991	25,928	25,982	25,878	25,967	5
21	26,157	26,176	26,137	26,170	26,107	26,160	26,056	26,145	5
22	31,321	31,340	31,301	31,333	31,270	31,324	31,219	31,309	6
23	31,500	31,519	31,479	31,512	31,448	31,502	31,397	31,487	6
24	31,679	31,698	31,658	31,691	31,627	31,681	31,575	31,666	6
25	31,857	31,876	31,837	31,869	31,806	31,860	31,754	31,844	6
26	32,036	32,055	32,015	32,048	31,984	32,038	31,932	32,023	6
27	37,200	37,219	37,179	37,212	37,147	37,202	37,095	37,186	7
28	37,379	37,398	37,358	37,390	37,326	37,380	37,273	37,364	7
29	37,558	37,576	37,536	37,569	37,505	37,559	37,452	37,543	7
30	37,736	37,755	37,715	37,748	37,683	37,738	37,630	37,721	7
31	37,915	37,934	37,894	37,927	37,862	37,916	37,808	37,900	7
32	43,079	43,098	43,057	43,090	43,025	43,080	42,972	43,063	8
33	43,258	43,277	43,236	43,269	43,204	43,258	43,150	43,242	8
34	43,437	43,455	43,415	43,448	43,382	43,437	43,328	43,420	8
35	43,616	43,634	43,594	43,627	43,561	43,616	43,507	43,599	8
36	43,794	43,813	43,773	43,805	43,740	43,794	43,685	43,777	8
37	48,958	48,977	48,936	48,969	48,903	48,958	48,848	48,941	9
38	49,137	49,156	49,115	49,148	49,082	49,137	49,027	49,119	9
39	49,316	49,335	49,294	49,327	49,260	49,315	49,205	49,298	9
40	49,495	49,513	49,472	49,505	49,439	49,494	49,384	49,476	9
41	54,658	54,677	54,636	54,669	54,603	54,658	54,547	54,640	10
42	54,837	54,856	54,815	54,848	54,781	54,836	54,725	54,818	10
43	55,016	55,035	54,994	55,027	54,960	55,015	54,904	54,997	10
44	55,195	55,214	55,172	55,205	55,139	55,194	55,082	55,176	10
45	55,374	55,393	55,351	55,384	55,317	55,372	55,261	55,354	10
46	60,538	60,556	60,515	60,548	60,481	60,536	60,424	60,517	11
47	60,716	60,735	60,694	60,727	60,659	60,715	60,602	60,696	11
48	60,895	60,914	60,872	60,905	60,838	60,893	60,781	60,875	11
49	61,074	61,093	61,051	61,084	61,017	61,072	60,960	61,053	11
50	61,253	61,272	61,230	61,263	61,196	61,251	61,138	61,232	11
51	66,417	66,435	66,394	66,427	66,359	66,414	66,301	66,395	12
52	66,596	66,614	66,573	66,605	66,538	66,593	66,480	66,574	12
53	66,775	66,793	66,751	66,784	66,717	66,772	66,658	66,753	12
54	66,954	66,972	66,930	66,963	66,895	66,951	66,837	66,931	12
55	67,132	67,151	67,109	67,142	67,074	67,129	67,015	67,110	12
56	72,296	72,315	72,273	72,306	72,237	72,293	72,179	72,273	13
57	72,475	72,493	72,452	72,484	72,416	72,472	72,357	72,452	13
58	72,654	72,672	72,630	72,663	72,595	72,650	72,536	72,631	13
59	72,833	72,851	72,809	72,842	72,774	72,829	72,714	72,809	13
60	73,012	73,030	72,988	73,021	72,952	73,008	72,893	72,988	13
61	78,175	78,194	78,152	78,184	78,116	78,171	78,056	78,151	14
62	78,354	78,373	78,331	78,363	78,295	78,350	78,235	78,330	14
63	78,533	78,552	78,509	78,542	78,473	78,529	78,414	78,509	14
64	78,712	78,730	78,688	78,721	78,652	78,708	78,592	78,687	14
65	83,876	83,894	83,852	83,885	83,816	83,871	83,756	83,851	15
66	84,055	84,073	84,031	84,063	83,994	84,050	83,934	84,029	15
67	84,234	84,252	84,210	84,242	84,173	84,229	84,113	84,208	15
68	84,413	84,431	84,388	84,421	84,352	84,408	84,291	84,387	15
69	84,592	84,610	84,567	84,600	84,531	84,586	84,470	84,565	15
70	89,755	89,773	89,731	89,764	89,694	89,750	89,633	89,729	16
71	89,934	89,952	89,910	89,942	89,873	89,929	89,812	89,907	16
72	90,113	90,131	90,089	90,121	90,052	90,107	89,991	90,086	16
73	90,292	90,310	90,268	90,300	90,231	90,286	90,169	90,265	16
74	90,471	90,489	90,446	90,479	90,409	90,465	90,348	90,443	16
75	95,635	95,653	95,610	95,643	95,573	95,629	95,511	95,607	17
76	95,814	95,832	95,789	95,822	95,752	95,807	95,690	95,786	17
77	95,993	96,010	95,968	96,000	95,931	95,986	95,868	95,964	17
78	96,172	96,189	96,147	96,179	96,109	96,165	96,047	96,143	17
79	96,350	96,368	96,325	96,358	96,288	96,344	96,226	96,322	17
80	101,514	101,532	101,489	101,522	101,452	101,507	101,389	101,485	18
81	101,693	101,711	101,668	101,701	101,630	101,686	101,568	101,664	18
82	101,872	101,890	101,847	101,879	101,809	101,865	101,746	101,842	18
83	102,051	102,069	102,026	102,058	101,988	102,044	101,925	102,021	18
84	107,215	107,232	107,189	107,222	107,152	107,207	107,089	107,185	19
85	107,394	107,411	107,368	107,401	107,330	107,386	107,267	107,363	19
86	107,573	107,590	107,547	107,580	107,509	107,565	107,446	107,542	19
87	107,751	107,769	107,726	107,759	107,688	107,744	107,624	107,721	19
88	107,930	107,948	107,905	107,937	107,867	107,922	107,803	107,899	19
89	113,094	113,112	113,069	113,101	113,030	113,086	112,967	113,063	20
90	113,273	113,291	113,247	113,280	113,209	113,265	113,145	113,242	20
91	113,452	113,470	113,426	113,459	113,388	113,444	113,324	113,420	20
92	113,631	113,648	113,605	113,638	113,567	113,622	113,503	113,599	20
93	113,810	113,827	113,784	113,817	113,746	113,801	113,681	113,778	20
94	118,974	118,991	118,948	118,980	118,909	118,965	118,845	118,941	21
95	119,153	119,170	119,127	119,159	119,088	119,144	119,023	119,120	21
96	119,331	119,349	119,306	119,338	119,267	119,322	119,202	119,299	21
97	119,510	119,528	119,484	119,517	119,446	119,501	119,381	119,477	21
98	119,689	119,707	119,663	119,696	119,624	119,680	119,559	119,656	21
99	124,853	124,870	124,827	124,859	124,788	124,844	124,723	124,820	22
100	125,032	125,049	125,006	125,038	124,967	125,022	124,902	124,998	22

Table A.22 — Inspection dimensions W, $\alpha = 37{,}5°$, $m = 2{,}5$, $S_{v\,max} = 3{,}927$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	10,658	10,678	10,639	10,672	10,610	10,664	10,563	10,652	2
7	10,881	10,901	10,862	10,895	10,833	10,887	10,785	10,874	2
8	17,335	17,355	17,316	17,350	17,286	17,341	17,238	17,328	3
9	17,559	17,579	17,539	17,573	17,509	17,565	17,460	17,551	3
10	17,782	17,802	17,762	17,796	17,732	17,788	17,682	17,774	3
11	18,005	18,026	17,985	18,020	17,955	18,011	17,904	17,997	3
12	18,229	18,249	18,208	18,243	18,178	18,234	18,127	18,220	3
13	24,683	24,704	24,663	24,697	24,632	24,688	24,580	24,674	4
14	24,907	24,927	24,886	24,921	24,855	24,912	24,803	24,897	4
15	25,130	25,151	25,109	25,144	25,078	25,135	25,026	25,120	4
16	25,354	25,374	25,333	25,368	25,301	25,358	25,248	25,343	4
17	25,577	25,598	25,556	25,591	25,524	25,581	25,471	25,566	4
18	32,032	32,052	32,010	32,045	31,978	32,036	31,925	32,020	5
19	32,255	32,276	32,234	32,269	32,201	32,259	32,147	32,243	5
20	32,479	32,499	32,457	32,492	32,425	32,482	32,370	32,466	5
21	32,702	32,723	32,681	32,716	32,648	32,705	32,593	32,689	5
22	39,157	39,177	39,135	39,170	39,102	39,160	39,047	39,143	6
23	39,381	39,401	39,358	39,394	39,325	39,383	39,270	39,367	6
24	39,604	39,624	39,582	39,617	39,548	39,606	39,493	39,590	6
25	39,828	39,848	39,805	39,840	39,772	39,830	39,716	39,813	6
26	40,051	40,072	40,029	40,064	39,995	40,053	39,939	40,036	6
27	46,506	46,526	46,483	46,518	46,449	46,507	46,393	46,490	7
28	46,729	46,750	46,707	46,742	46,672	46,731	46,616	46,713	7
29	46,953	46,973	46,930	46,965	46,896	46,954	46,839	46,937	7
30	47,177	47,197	47,154	47,189	47,119	47,178	47,062	47,160	7
31	47,400	47,420	47,377	47,412	47,342	47,401	47,285	47,383	7
32	53,855	53,875	53,832	53,867	53,797	53,855	53,739	53,837	8
33	54,078	54,099	54,055	54,090	54,020	54,079	53,962	54,061	8
34	54,302	54,322	54,279	54,314	54,243	54,302	54,185	54,284	8
35	54,526	54,546	54,502	54,537	54,467	54,525	54,408	54,507	8
36	54,749	54,769	54,726	54,761	54,690	54,749	54,631	54,730	8
37	61,204	61,224	61,180	61,215	61,144	61,203	61,085	61,184	9
38	61,427	61,447	61,404	61,439	61,368	61,427	61,308	61,408	9
39	61,651	61,671	61,627	61,662	61,591	61,650	61,531	61,631	9
40	61,875	61,895	61,851	61,886	61,815	61,873	61,755	61,854	9
41	68,329	68,349	68,305	68,340	68,269	68,328	68,209	68,309	10
42	68,553	68,573	68,529	68,564	68,492	68,551	68,432	68,532	10
43	68,776	68,796	68,752	68,787	68,716	68,775	68,655	68,755	10
44	69,000	69,020	68,976	69,011	68,939	68,998	68,878	68,978	10
45	69,224	69,244	69,199	69,235	69,163	69,222	69,101	69,202	10
46	75,678	75,698	75,654	75,689	75,617	75,676	75,556	75,656	11
47	75,902	75,922	75,877	75,913	75,840	75,899	75,779	75,879	11
48	76,126	76,145	76,101	76,136	76,064	76,123	76,002	76,103	11
49	76,349	76,369	76,324	76,360	76,287	76,346	76,225	76,326	11
50	76,573	76,593	76,548	76,583	76,511	76,570	76,448	76,549	11
51	83,028	83,047	83,003	83,038	82,965	83,024	82,903	83,004	12
52	83,251	83,271	83,226	83,261	83,189	83,248	83,126	83,227	12
53	83,475	83,495	83,450	83,485	83,412	83,471	83,349	83,450	12
54	83,698	83,718	83,673	83,708	83,635	83,695	83,572	83,673	12
55	83,922	83,942	83,897	83,932	83,859	83,918	83,796	83,897	12
56	90,377	90,396	90,351	90,386	90,313	90,373	90,250	90,351	13
57	90,600	90,620	90,575	90,610	90,537	90,596	90,473	90,574	13
58	90,824	90,844	90,799	90,834	90,760	90,820	90,696	90,798	13
59	91,048	91,067	91,022	91,057	90,984	91,043	90,920	91,021	13
60	91,271	91,291	91,246	91,281	91,207	91,266	91,143	91,245	13
61	97,726	97,745	97,700	97,735	97,662	97,721	97,597	97,699	14
62	97,950	97,969	97,924	97,959	97,885	97,944	97,821	97,922	14
63	98,173	98,193	98,147	98,182	98,109	98,168	98,044	98,146	14
64	98,397	98,416	98,371	98,406	98,332	98,391	98,267	98,369	14
65	104,852	104,871	104,826	104,861	104,787	104,846	104,721	104,823	15
66	105,075	105,095	105,049	105,084	105,010	105,069	104,945	105,047	15
67	105,299	105,318	105,273	105,308	105,233	105,293	105,168	105,270	15
68	105,523	105,542	105,496	105,531	105,457	105,516	105,391	105,493	15
69	105,746	105,766	105,720	105,755	105,680	105,740	105,615	105,717	15
70	112,201	112,220	112,175	112,209	112,135	112,194	112,069	112,171	16
71	112,425	112,444	112,398	112,433	112,358	112,418	112,292	112,395	16
72	112,648	112,667	112,622	112,657	112,582	112,641	112,516	112,618	16
73	112,872	112,891	112,845	112,880	112,805	112,865	112,739	112,841	16
74	113,096	113,115	113,069	113,104	113,029	113,088	112,962	113,065	16
75	119,550	119,569	119,524	119,558	119,483	119,543	119,417	119,519	17
76	119,774	119,793	119,747	119,782	119,707	119,766	119,640	119,742	17
77	119,998	120,017	119,971	120,006	119,930	119,990	119,863	119,966	17
78	120,221	120,240	120,194	120,229	120,154	120,213	120,087	120,189	17
79	120,445	120,464	120,418	120,453	120,377	120,437	120,310	120,413	17
80	126,900	126,919	126,873	126,907	126,832	126,891	126,764	126,867	18
81	127,123	127,142	127,096	127,131	127,055	127,115	126,988	127,090	18
82	127,347	127,366	127,320	127,354	127,279	127,338	127,211	127,314	18
83	127,571	127,590	127,543	127,578	127,503	127,562	127,434	127,537	18
84	134,025	134,044	133,998	134,033	133,957	134,016	133,889	133,992	19
85	134,249	134,268	134,222	134,256	134,181	134,240	134,112	134,215	19
86	134,473	134,491	134,445	134,480	134,404	134,463	134,335	134,438	19
87	134,696	134,715	134,669	134,703	134,628	134,687	134,559	134,662	19
88	134,920	134,939	134,892	134,927	134,851	134,910	134,782	134,885	19
89	141,375	141,393	141,347	141,382	141,306	141,365	141,237	141,340	20
90	141,598	141,617	141,571	141,605	141,529	141,589	141,460	141,563	20
91	141,822	141,841	141,794	141,829	141,753	141,812	141,683	141,786	20
92	142,046	142,064	142,018	142,052	141,976	142,036	141,907	142,010	20
93	142,269	142,288	142,242	142,276	142,200	142,259	142,130	142,233	20
94	148,724	148,743	148,696	148,731	148,654	148,714	148,584	148,688	21
95	148,948	148,966	148,920	148,954	148,878	148,937	148,808	148,911	21
96	149,171	149,190	149,143	149,178	149,101	149,161	149,031	149,135	21
97	149,395	149,414	149,367	149,401	149,325	149,384	149,255	149,358	21
98	149,619	149,637	149,591	149,625	149,548	149,608	149,478	149,581	21
99	156,074	156,092	156,045	156,080	156,003	156,062	155,932	156,036	22
100	156,297	156,316	156,269	156,303	156,227	156,286	156,156	156,259	22

Table A.23 — Inspection dimensions W, $\alpha = 37{,}5°$, $m = 3$, $S_{v\,max} = 4{,}712$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	12,793	12,815	12,773	12,809	12,743	12,801	12,693	12,787	2
7	13,061	13,083	13,041	13,077	13,010	13,068	12,959	13,055	2
8	20,807	20,828	20,786	20,822	20,755	20,813	20,703	20,799	3
9	21,075	21,096	21,054	21,090	21,022	21,081	20,970	21,067	3
10	21,343	21,365	21,322	21,358	21,290	21,349	21,237	21,334	3
11	21,611	21,633	21,590	21,626	21,557	21,617	21,504	21,602	3
12	21,879	21,901	21,858	21,894	21,825	21,885	21,771	21,870	3
13	29,625	29,646	29,603	29,640	29,570	29,630	29,515	29,614	4
14	29,893	29,915	29,871	29,908	29,838	29,898	29,782	29,882	4
15	30,161	30,183	30,139	30,176	30,105	30,166	30,050	30,150	4
16	30,429	30,451	30,407	30,444	30,373	30,434	30,317	30,418	4
17	30,698	30,719	30,675	30,712	30,641	30,702	30,584	30,685	4
18	38,443	38,465	38,420	38,457	38,386	38,447	38,329	38,430	5
19	38,711	38,733	38,688	38,725	38,654	38,715	38,596	38,698	5
20	38,980	39,001	38,956	38,994	38,922	38,983	38,864	38,966	5
21	39,248	39,269	39,225	39,262	39,190	39,251	39,131	39,234	5
22	46,993	47,015	46,970	47,007	46,935	46,996	46,876	46,979	6
23	47,262	47,283	47,238	47,275	47,203	47,264	47,144	47,246	6
24	47,530	47,551	47,506	47,543	47,471	47,532	47,411	47,514	6
25	47,798	47,820	47,774	47,812	47,739	47,800	47,679	47,782	6
26	48,067	48,088	48,043	48,080	48,007	48,068	47,947	48,050	6
27	55,812	55,834	55,788	55,825	55,752	55,813	55,691	55,795	7
28	56,080	56,102	56,056	56,093	56,020	56,082	55,959	56,063	7
29	56,349	56,370	56,324	56,362	56,288	56,350	56,227	56,331	7
30	56,617	56,638	56,593	56,630	56,556	56,618	56,495	56,599	7
31	56,885	56,907	56,861	56,898	56,824	56,886	56,762	56,867	7
32	64,631	64,652	64,606	64,643	64,569	64,631	64,507	64,612	8
33	64,899	64,921	64,874	64,912	64,837	64,899	64,775	64,880	8
34	65,168	65,189	65,143	65,180	65,105	65,167	65,043	65,148	8
35	65,436	65,457	65,411	65,448	65,373	65,435	65,311	65,416	8
36	65,704	65,726	65,679	65,716	65,641	65,703	65,578	65,684	8
37	73,450	73,471	73,425	73,462	73,387	73,449	73,323	73,429	9
38	73,718	73,739	73,693	73,730	73,655	73,717	73,591	73,697	9
39	73,987	74,008	73,961	73,998	73,923	73,985	73,859	73,965	9
40	74,255	74,276	74,229	74,267	74,191	74,253	74,127	74,233	9
41	82,000	82,022	81,975	82,012	81,936	81,999	81,872	81,978	10
42	82,269	82,290	82,243	82,280	82,204	82,267	82,140	82,246	10
43	82,537	82,558	82,511	82,549	82,472	82,535	82,408	82,514	10
44	82,806	82,827	82,780	82,817	82,741	82,803	82,676	82,782	10
45	83,074	83,095	83,048	83,085	83,009	83,071	82,944	83,050	10
46	90,820	90,840	90,793	90,831	90,754	90,816	90,689	90,795	11
47	91,088	91,109	91,062	91,099	91,022	91,085	90,957	91,063	11
48	91,356	91,377	91,330	91,367	91,290	91,353	91,224	91,331	11
49	91,625	91,645	91,598	91,635	91,559	91,621	91,492	91,599	11
50	91,893	91,914	91,867	91,904	91,827	91,889	91,760	91,867	11
51	99,639	99,659	99,612	99,649	99,572	99,635	99,505	99,612	12
52	99,907	99,928	99,880	99,917	99,840	99,903	99,773	99,880	12
53	100,175	100,196	100,149	100,186	100,108	100,171	100,041	100,148	12
54	100,444	100,464	100,417	100,454	100,377	100,439	100,309	100,416	12
55	100,712	100,733	100,685	100,722	100,645	100,707	100,577	100,684	12
56	108,458	108,478	108,431	108,468	108,390	108,453	108,322	108,429	13
57	108,726	108,747	108,699	108,736	108,658	108,721	108,590	108,698	13
58	108,995	109,015	108,967	109,004	108,926	108,989	108,858	108,966	13
59	109,263	109,283	109,236	109,273	109,195	109,257	109,126	109,234	13
60	109,531	109,552	109,504	109,541	109,463	109,525	109,394	109,502	13
61	117,277	117,297	117,249	117,286	117,208	117,271	117,140	117,247	14
62	117,545	117,566	117,518	117,555	117,476	117,539	117,408	117,515	14
63	117,814	117,834	117,786	117,823	117,745	117,807	117,676	117,783	14
64	118,082	118,102	118,054	118,091	118,013	118,075	117,944	118,051	14
65	125,828	125,848	125,800	125,837	125,758	125,821	125,689	125,796	15
66	126,096	126,116	126,068	126,105	126,026	126,089	125,957	126,064	15
67	126,365	126,385	126,337	126,373	126,295	126,357	126,225	126,333	15
68	126,633	126,653	126,605	126,642	126,563	126,625	126,493	126,601	15
69	126,901	126,922	126,873	126,910	126,831	126,894	126,761	126,869	15
70	134,647	134,667	134,619	134,656	134,577	134,639	134,506	134,614	16
71	134,915	134,936	134,887	134,924	134,845	134,907	134,774	134,882	16
72	135,184	135,204	135,155	135,192	135,113	135,176	135,042	135,150	16
73	135,452	135,472	135,424	135,460	135,381	135,444	135,310	135,418	16
74	135,721	135,741	135,692	135,729	135,649	135,712	135,578	135,686	16
75	143,466	143,486	143,438	143,474	143,395	143,457	143,323	143,432	17
76	143,735	143,755	143,706	143,743	143,663	143,726	143,592	143,700	17
77	144,003	144,023	143,974	144,011	143,931	143,994	143,860	143,968	17
78	144,272	144,291	144,243	144,279	144,200	144,262	144,128	144,236	17
79	144,540	144,560	144,511	144,548	144,468	144,530	144,396	144,504	17
80	152,286	152,305	152,257	152,293	152,213	152,276	152,141	152,249	18
81	152,554	152,574	152,525	152,561	152,482	152,544	152,409	152,518	18
82	152,822	152,842	152,793	152,830	152,750	152,812	152,677	152,786	18
83	153,091	153,111	153,062	153,098	153,018	153,081	152,945	153,054	18
84	153,359	153,379	153,330	153,366	153,286	153,349	153,213	153,322	18
85	161,105	161,124	161,076	161,112	161,032	161,094	160,959	161,067	19
86	161,373	161,393	161,344	161,380	161,300	161,362	161,227	161,335	19
87	161,642	161,661	161,612	161,649	161,568	161,631	161,495	161,603	19
88	161,910	161,930	161,881	161,917	161,836	161,899	161,763	161,872	19
89	169,656	169,675	169,626	169,662	169,582	169,644	169,508	169,617	20
90	169,924	169,944	169,895	169,931	169,850	169,913	169,776	169,885	20
91	170,193	170,212	170,163	170,199	170,118	170,181	170,044	170,153	20
92	170,461	170,480	170,431	170,467	170,387	170,449	170,312	170,421	20
93	170,729	170,749	170,700	170,736	170,655	170,717	170,581	170,689	20
94	178,475	178,494	178,445	178,481	178,400	178,463	178,326	178,435	21
95	178,743	178,763	178,714	178,750	178,669	178,731	178,594	178,703	21
96	179,012	179,031	178,982	179,018	178,937	178,999	178,862	178,971	21
97	179,280	179,300	179,250	179,286	179,205	179,268	179,130	179,239	21
98	179,549	179,568	179,519	179,555	179,474	179,536	179,398	179,507	21
99	187,294	187,314	187,264	187,300	187,219	187,281	187,144	187,253	22
100	187,563	187,582	187,533	187,569	187,487	187,550	187,412	187,521	22

Table A.24 — Inspection dimensions W, $\alpha = 37{,}5°$, $m = 4$, $S_{v\,max} = 6{,}283$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	17,066	17,089	17,043	17,083	17,010	17,073	16,955	17,059	2
7	17,423	17,447	17,401	17,440	17,367	17,431	17,310	17,415	2
8	27,750	27,774	27,727	27,767	27,693	27,757	27,636	27,742	3
9	28,108	28,132	28,085	28,125	28,050	28,115	27,992	28,099	3
10	28,465	28,489	28,442	28,482	28,407	28,472	28,348	28,456	3
11	28,823	28,847	28,799	28,840	28,764	28,829	28,704	28,813	3
12	29,181	29,204	29,157	29,197	29,121	29,186	29,061	29,170	3
13	39,508	39,532	39,484	39,524	39,447	39,513	39,387	39,496	4
14	39,866	39,889	39,841	39,882	39,805	39,871	39,744	39,853	4
15	40,223	40,247	40,199	40,239	40,162	40,228	40,100	40,210	4
16	40,581	40,605	40,556	40,597	40,519	40,585	40,457	40,567	4
17	40,939	40,962	40,914	40,954	40,876	40,943	40,814	40,924	4
18	51,266	51,290	51,241	51,281	51,203	51,270	51,140	51,251	5
19	51,624	51,647	51,598	51,639	51,560	51,627	51,497	51,608	5
20	51,982	52,005	51,956	51,997	51,918	51,984	51,854	51,966	5
21	52,339	52,363	52,314	52,354	52,275	52,342	52,211	52,323	5
22	62,667	62,690	62,641	62,681	62,602	62,669	62,537	62,649	6
23	63,024	63,048	62,998	63,039	62,959	63,026	62,894	63,007	6
24	63,382	63,406	63,356	63,397	63,317	63,384	63,251	63,364	6
25	63,740	63,763	63,714	63,754	63,674	63,741	63,608	63,721	6
26	64,098	64,121	64,071	64,112	64,032	64,099	63,965	64,078	6
27	74,425	74,449	74,399	74,439	74,359	74,426	74,292	74,405	7
28	74,783	74,806	74,756	74,797	74,716	74,783	74,649	74,763	7
29	75,141	75,164	75,114	75,155	75,074	75,141	75,006	75,120	7
30	75,499	75,522	75,472	75,512	75,431	75,498	75,363	75,477	7
31	75,856	75,880	75,829	75,870	75,788	75,856	75,720	75,835	7
32	86,184	86,207	86,157	86,197	86,116	86,183	86,047	86,161	8
33	86,542	86,565	86,514	86,555	86,473	86,541	86,404	86,519	8
34	86,900	86,923	86,872	86,913	86,831	86,898	86,762	86,876	8
35	87,257	87,280	87,230	87,270	87,188	87,256	87,119	87,233	8
36	87,615	87,638	87,587	87,628	87,546	87,613	87,476	87,591	8
37	97,943	97,966	97,915	97,955	97,873	97,940	97,803	97,918	9
38	98,301	98,323	98,272	98,313	98,230	98,298	98,160	98,275	9
39	98,658	98,681	98,630	98,671	98,588	98,656	98,517	98,632	9
40	99,016	99,039	98,988	99,028	98,945	99,013	98,875	98,990	9
41	99,374	99,397	99,346	99,386	99,303	99,371	99,232	99,347	9
42	109,702	109,724	109,673	109,713	109,630	109,698	109,559	109,674	10
43	110,059	110,082	110,031	110,071	109,988	110,056	109,916	110,032	10
44	110,417	110,440	110,388	110,429	110,345	110,413	110,273	110,389	10
45	110,775	110,798	110,746	110,787	110,703	110,771	110,631	110,746	10
46	121,103	121,125	121,074	121,114	121,030	121,098	120,958	121,073	11
47	121,460	121,483	121,431	121,472	121,388	121,456	121,315	121,431	11
48	121,818	121,841	121,789	121,829	121,745	121,813	121,672	121,788	11
49	122,176	122,199	122,147	122,187	122,103	122,171	122,030	122,146	11
50	122,534	122,556	122,505	122,545	122,461	122,528	122,387	122,503	11
51	132,862	132,884	132,832	132,872	132,788	132,856	132,714	132,830	12
52	133,219	133,242	133,190	133,230	133,145	133,213	133,071	133,188	12
53	133,577	133,600	133,548	133,588	133,503	133,571	133,429	133,545	12
54	133,935	133,957	133,905	133,945	133,861	133,929	133,786	133,903	12
55	134,293	134,315	134,263	134,303	134,218	134,286	134,144	134,260	12
56	144,621	144,643	144,591	144,631	144,546	144,613	144,470	144,587	13
57	144,978	145,001	144,948	144,988	144,903	144,971	144,828	144,945	13
58	145,336	145,358	145,306	145,346	145,261	145,329	145,185	145,302	13
59	145,694	145,716	145,664	145,704	145,618	145,686	145,543	145,660	13
60	146,052	146,074	146,022	146,062	145,976	146,044	145,900	146,017	13
61	156,380	156,402	156,349	156,389	156,303	156,371	156,227	156,344	14
62	156,737	156,759	156,707	156,747	156,661	156,729	156,585	156,702	14
63	157,095	157,117	157,065	157,105	157,019	157,087	156,942	157,059	14
64	157,453	157,475	157,423	157,462	157,376	157,444	157,300	157,417	14
65	167,781	167,803	167,750	167,790	167,704	167,772	167,627	167,744	15
66	168,139	168,160	168,108	168,147	168,061	168,129	167,984	168,101	15
67	168,497	168,518	168,466	168,505	168,419	168,487	168,341	168,459	15
68	168,854	168,876	168,823	168,863	168,777	168,845	168,699	168,816	15
69	169,212	169,234	169,181	169,221	169,134	169,202	169,056	169,174	15
70	179,540	179,561	179,509	179,548	179,462	179,529	179,383	179,501	16
71	179,898	179,919	179,866	179,906	179,819	179,887	179,741	179,858	16
72	180,256	180,277	180,224	180,264	180,177	180,245	180,098	180,216	16
73	180,614	180,635	180,582	180,622	180,535	180,603	180,456	180,574	16
74	180,971	180,993	180,940	180,979	180,892	180,960	180,813	180,931	16
75	191,299	191,320	191,267	191,307	191,220	191,287	191,140	191,258	17
76	191,657	191,678	191,625	191,665	191,577	191,645	191,498	191,616	17
77	192,015	192,036	191,983	192,022	191,935	192,003	191,855	191,973	17
78	192,373	192,394	192,341	192,380	192,293	192,361	192,213	192,331	17
79	192,731	192,752	192,699	192,738	192,651	192,718	192,571	192,688	17
80	203,058	203,079	203,026	203,065	202,978	203,046	202,898	203,015	18
81	203,416	203,437	203,384	203,423	203,336	203,403	203,255	203,373	18
82	203,774	203,795	203,742	203,781	203,693	203,761	203,613	203,731	18
83	204,132	204,153	204,100	204,139	204,051	204,119	203,970	204,088	18
84	204,490	204,511	204,457	204,497	204,409	204,476	204,328	204,446	18
85	214,817	214,838	214,785	214,824	214,736	214,804	214,655	214,773	19
86	215,175	215,196	215,143	215,182	215,094	215,161	215,012	215,130	19
87	215,533	215,554	215,500	215,540	215,452	215,519	215,370	215,488	19
88	215,891	215,912	215,858	215,897	215,809	215,877	215,727	215,846	19
89	226,219	226,239	226,186	226,225	226,137	226,204	226,055	226,173	20
90	226,576	226,597	226,544	226,583	226,494	226,562	226,412	226,530	20
91	226,934	226,955	226,901	226,940	226,852	226,920	226,770	226,888	20
92	227,292	227,313	227,259	227,298	227,210	227,277	227,127	227,245	20
93	227,650	227,671	227,617	227,656	227,568	227,635	227,485	227,603	20
94	237,978	237,998	237,945	237,983	237,895	237,962	237,812	237,930	21
95	238,336	238,356	238,302	238,341	238,253	238,320	238,169	238,288	21
96	238,694	238,714	238,660	238,699	238,610	238,678	238,527	238,645	21
97	239,052	239,072	239,018	239,057	238,968	239,036	238,885	239,003	21
98	239,409	239,430	239,376	239,415	239,326	239,393	239,242	239,361	21
99	249,737	249,757	249,703	249,742	249,653	249,721	249,569	249,688	22
100	250,095	250,115	250,061	250,100	250,011	250,078	249,927	250,045	22

Table A.25 — Inspection dimensions W, $\alpha = 37{,}5°$, $m = 5$, $S_{v\,max} = 7{,}854$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	21,338	21,364	21,314	21,357	21,278	21,346	21,218	21,330	2
7	21,785	21,811	21,761	21,804	21,724	21,793	21,664	21,776	2
8	34,694	34,720	34,670	34,712	34,633	34,702	34,571	34,684	3
9	35,141	35,167	35,116	35,159	35,079	35,148	35,016	35,131	3
10	35,588	35,614	35,563	35,606	35,525	35,595	35,462	35,577	3
11	36,035	36,061	36,010	36,053	35,972	36,041	35,908	36,023	3
12	36,483	36,508	36,457	36,500	36,418	36,488	36,353	36,470	3
13	49,392	49,417	49,366	49,409	49,326	49,397	49,261	49,378	4
14	49,839	49,864	49,813	49,856	49,773	49,844	49,707	49,825	4
15	50,286	50,311	50,259	50,303	50,220	50,290	50,153	50,271	4
16	50,733	50,759	50,706	50,750	50,666	50,737	50,599	50,718	4
17	63,642	63,668	63,615	63,659	63,575	63,646	63,507	63,626	5
18	64,090	64,115	64,062	64,106	64,022	64,093	63,954	64,073	5
19	64,537	64,562	64,509	64,553	64,468	64,540	64,400	64,519	5
20	64,984	65,009	64,957	65,000	64,915	64,987	64,846	64,966	5
21	65,431	65,457	65,404	65,447	65,362	65,433	65,292	65,412	5
22	78,341	78,366	78,313	78,356	78,271	78,342	78,201	78,321	6
23	78,788	78,813	78,760	78,803	78,718	78,789	78,647	78,767	6
24	79,235	79,260	79,207	79,250	79,164	79,236	79,094	79,214	6
25	79,682	79,707	79,654	79,697	79,611	79,683	79,540	79,661	6
26	80,130	80,155	80,101	80,145	80,058	80,130	79,986	80,107	6
27	93,039	93,064	93,010	93,054	92,967	93,039	92,895	93,016	7
28	93,486	93,511	93,457	93,501	93,414	93,486	93,341	93,463	7
29	93,934	93,958	93,904	93,948	93,861	93,933	93,788	93,910	7
30	94,381	94,406	94,352	94,395	94,308	94,380	94,235	94,356	7
31	94,828	94,853	94,799	94,842	94,755	94,827	94,681	94,803	7
32	107,738	107,762	107,708	107,751	107,664	107,736	107,590	107,712	8
33	108,185	108,209	108,155	108,198	108,111	108,183	108,036	108,158	8
34	108,632	108,657	108,602	108,646	108,558	108,630	108,483	108,605	8
35	109,080	109,104	109,050	109,093	109,005	109,077	108,930	109,052	8
36	109,527	109,551	109,497	109,540	109,452	109,524	109,376	109,499	8
37	122,436	122,461	122,406	122,449	122,360	122,433	122,285	122,408	9
38	122,883	122,908	122,853	122,896	122,807	122,880	122,731	122,854	9
39	123,331	123,355	123,300	123,343	123,255	123,327	123,178	123,301	9
40	123,778	123,802	123,748	123,791	123,702	123,774	123,625	123,748	9
41	136,687	136,712	136,657	136,700	136,611	136,683	136,534	136,657	10
42	137,135	137,159	137,104	137,147	137,058	137,130	136,980	137,104	10
43	137,582	137,606	137,551	137,594	137,505	137,577	137,427	137,550	10
44	138,030	138,054	137,998	138,041	137,952	138,024	137,874	137,997	10
45	138,477	138,501	138,446	138,489	138,399	138,471	138,321	138,444	10
46	151,386	151,410	151,355	151,398	151,308	151,380	151,229	151,353	11
47	151,834	151,857	151,802	151,845	151,755	151,827	151,676	151,800	11
48	152,281	152,305	152,249	152,292	152,202	152,274	152,123	152,247	11
49	152,728	152,752	152,697	152,739	152,649	152,721	152,570	152,693	11
50	153,176	153,199	153,144	153,187	153,096	153,168	153,016	153,140	11
51	166,085	166,109	166,053	166,096	166,005	166,077	165,925	166,049	12
52	166,532	166,556	166,500	166,543	166,452	166,524	166,372	166,496	12
53	166,980	167,003	166,948	166,990	166,899	166,972	166,819	166,943	12
54	167,427	167,451	167,395	167,437	167,346	167,419	167,266	167,390	12
55	167,875	167,898	167,842	167,885	167,794	167,866	167,713	167,837	12
56	180,784	180,807	180,751	180,794	180,703	180,775	180,621	180,746	13
57	181,231	181,255	181,199	181,241	181,150	181,222	181,068	181,193	13
58	181,679	181,702	181,646	181,688	181,597	181,669	181,515	181,640	13
59	182,126	182,149	182,093	182,136	182,044	182,116	181,962	182,086	13
60	195,035	195,059	195,003	195,045	194,953	195,025	194,871	194,995	14
61	195,483	195,506	195,450	195,492	195,400	195,472	195,318	195,442	14
62	195,930	195,953	195,897	195,939	195,847	195,920	195,764	195,889	14
63	196,378	196,401	196,344	196,387	196,295	196,367	196,211	196,336	14
64	196,825	196,848	196,792	196,834	196,742	196,814	196,658	196,783	14
65	209,734	209,757	209,701	209,743	209,651	209,723	209,567	209,692	15
66	210,182	210,205	210,148	210,190	210,098	210,170	210,014	210,139	15
67	210,629	210,652	210,596	210,638	210,545	210,617	210,461	210,586	15
68	211,077	211,099	211,043	211,085	210,992	211,064	210,908	211,033	15
69	211,524	211,547	211,490	211,532	211,439	211,511	211,355	211,480	15
70	224,433	224,456	224,399	224,441	224,349	224,421	224,264	224,389	16
71	224,881	224,903	224,847	224,889	224,796	224,868	224,711	224,836	16
72	225,328	225,351	225,294	225,336	225,243	225,315	225,158	225,283	16
73	225,776	225,798	225,741	225,783	225,690	225,762	225,604	225,730	16
74	226,223	226,246	226,189	226,231	226,137	226,209	226,051	226,177	16
75	239,132	239,155	239,098	239,140	239,046	239,118	238,960	239,086	17
76	239,580	239,602	239,545	239,587	239,494	239,565	239,407	239,533	17
77	240,027	240,050	239,993	240,034	239,941	240,013	239,854	239,980	17
78	240,475	240,497	240,440	240,482	240,388	240,460	240,301	240,427	17
79	240,922	240,944	240,887	240,929	240,835	240,907	240,748	240,874	17
80	253,831	253,854	253,797	253,838	253,744	253,816	253,657	253,783	18
81	254,279	254,301	254,244	254,285	254,191	254,263	254,104	254,230	18
82	254,726	254,748	254,691	254,733	254,639	254,710	254,551	254,677	18
83	255,174	255,196	255,139	255,180	255,086	255,158	254,998	255,124	18
84	268,083	268,105	268,048	268,089	267,995	268,067	267,907	268,033	19
85	268,530	268,553	268,495	268,537	268,442	268,514	268,354	268,480	19
86	268,978	269,000	268,943	268,984	268,889	268,961	268,801	268,927	19
87	269,425	269,447	269,390	269,431	269,337	269,408	269,248	269,374	19
88	269,873	269,895	269,837	269,878	269,784	269,856	269,695	269,821	19
89	282,782	282,804	282,746	282,788	282,693	282,765	282,604	282,730	20
90	283,230	283,251	283,194	283,235	283,140	283,212	283,051	283,177	20
91	283,677	283,699	283,641	283,682	283,587	283,659	283,498	283,624	20
92	284,124	284,146	284,088	284,130	284,035	284,106	283,945	284,071	20
93	284,572	284,594	284,536	284,577	284,482	284,553	284,392	284,518	20
94	297,481	297,503	297,445	297,486	297,391	297,463	297,301	297,427	21
95	297,929	297,950	297,892	297,934	297,838	297,910	297,748	297,874	21
96	298,376	298,398	298,340	298,381	298,285	298,357	298,195	298,321	21
97	298,824	298,845	298,787	298,828	298,733	298,804	298,642	298,768	21
98	299,271	299,292	299,235	299,275	299,180	299,251	299,089	299,215	21
99	312,180	312,202	312,144	312,185	312,089	312,161	311,998	312,124	22
100	312,628	312,649	312,591	312,632	312,536	312,608	312,445	312,571	22

Table A.26 — Inspection dimensions W, $\alpha = 37{,}5°$, $m = 6$, $S_{V\,max} = 9{,}425$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	25,611	25,638	25,586	25,631	25,548	25,620	25,484	25,602	2
7	26,148	26,175	26,122	26,167	26,083	26,156	26,018	26,137	2
8	41,639	41,666	41,612	41,658	41,573	41,646	41,507	41,627	3
9	42,175	42,202	42,149	42,194	42,109	42,182	42,042	42,163	3
10	42,712	42,739	42,685	42,730	42,644	42,718	42,577	42,699	3
11	43,248	43,275	43,221	43,267	43,180	43,254	43,112	43,234	3
12	43,785	43,812	43,757	43,803	43,716	43,790	43,647	43,770	3
13	59,276	59,303	59,248	59,294	59,206	59,281	59,137	59,260	4
14	59,813	59,839	59,785	59,830	59,742	59,817	59,672	59,796	4
15	60,349	60,376	60,321	60,367	60,278	60,353	60,208	60,332	4
16	60,886	60,913	60,857	60,903	60,815	60,889	60,743	60,868	4
17	76,377	76,404	76,348	76,394	76,305	76,380	76,233	76,358	5
18	76,914	76,940	76,885	76,930	76,841	76,916	76,769	76,894	5
19	77,450	77,477	77,421	77,467	77,377	77,453	77,304	77,430	5
20	77,987	78,014	77,958	78,004	77,914	77,989	77,840	77,966	5
21	78,524	78,550	78,494	78,540	78,450	78,525	78,376	78,502	5
22	94,015	94,041	93,985	94,031	93,940	94,016	93,866	93,993	6
23	94,552	94,578	94,522	94,567	94,477	94,552	94,402	94,529	6
24	95,089	95,115	95,058	95,104	95,013	95,089	94,938	95,065	6
25	95,625	95,652	95,595	95,641	95,549	95,625	95,473	95,601	6
26	96,162	96,188	96,132	96,177	96,086	96,161	96,009	96,137	6
27	111,653	111,679	111,622	111,668	111,576	111,652	111,500	111,627	7
28	112,190	112,216	112,159	112,205	112,113	112,188	112,036	112,163	7
29	112,727	112,753	112,696	112,741	112,649	112,725	112,571	112,700	7
30	113,264	113,290	113,232	113,278	113,186	113,261	113,107	113,236	7
31	113,800	113,826	113,769	113,815	113,722	113,798	113,643	113,772	7
32	129,292	129,317	129,260	129,306	129,213	129,289	129,134	129,262	8
33	129,828	129,854	129,797	129,842	129,749	129,825	129,670	129,799	8
34	130,365	130,391	130,333	130,379	130,286	130,361	130,206	130,335	8
35	130,902	130,928	130,870	130,915	130,822	130,898	130,742	130,871	8
36	131,439	131,464	131,407	131,452	131,358	131,434	131,278	131,407	8
37	146,930	146,956	146,898	146,943	146,849	146,925	146,769	146,898	9
38	147,467	147,492	147,434	147,480	147,386	147,462	147,305	147,434	9
39	148,004	148,029	147,971	148,016	147,922	147,998	147,841	147,970	9
40	148,541	148,566	148,508	148,553	148,459	148,535	148,377	148,507	9
41	164,032	164,057	163,999	164,044	163,950	164,026	163,867	163,997	10
42	164,569	164,594	164,536	164,581	164,486	164,562	164,404	164,533	10
43	165,105	165,131	165,072	165,117	165,023	165,099	164,940	165,070	10
44	165,642	165,667	165,609	165,654	165,559	165,635	165,476	165,606	10
45	166,179	166,204	166,146	166,191	166,096	166,172	166,012	166,142	10
46	181,670	181,695	181,637	181,682	181,587	181,662	181,503	181,633	11
47	182,207	182,232	182,174	182,219	182,123	182,199	182,039	182,169	11
48	182,744	182,769	182,710	182,755	182,660	182,736	182,575	182,705	11
49	183,281	183,306	183,247	183,292	183,196	183,272	183,111	183,242	11
50	183,818	183,843	183,784	183,829	183,733	183,809	183,648	183,778	11
51	199,309	199,334	199,275	199,320	199,224	199,300	199,138	199,269	12
52	199,846	199,871	199,812	199,856	199,760	199,836	199,675	199,805	12
53	200,383	200,407	200,348	200,393	200,297	200,373	200,211	200,341	12
54	200,920	200,944	200,885	200,930	200,833	200,909	200,747	200,878	12
55	201,457	201,481	201,422	201,467	201,370	201,446	201,283	201,414	12
56	216,948	216,972	216,913	216,958	216,861	216,937	216,774	216,905	13
57	217,485	217,509	217,450	217,494	217,398	217,473	217,310	217,441	13
58	218,022	218,046	217,987	218,031	217,934	218,010	217,847	217,978	13
59	218,559	218,583	218,523	218,568	218,471	218,546	218,383	218,514	13
60	234,050	234,074	234,015	234,059	233,962	234,037	233,874	234,005	14
61	234,587	234,611	234,551	234,596	234,498	234,574	234,410	234,541	14
62	235,124	235,148	235,088	235,132	235,035	235,111	234,946	235,077	14
63	235,660	235,684	235,625	235,669	235,572	235,647	235,483	235,614	14
64	236,197	236,221	236,162	236,206	236,108	236,184	236,019	236,150	14
65	251,689	251,713	251,653	251,697	251,599	251,675	251,510	251,641	15
66	252,225	252,249	252,190	252,234	252,136	252,211	252,046	252,177	15
67	252,762	252,786	252,726	252,770	252,672	252,748	252,582	252,714	15
68	253,299	253,323	253,263	253,307	253,209	253,285	253,119	253,250	15
69	253,836	253,860	253,800	253,844	253,746	253,821	253,655	253,787	15
70	269,327	269,351	269,291	269,335	269,237	269,312	269,146	269,277	16
71	269,864	269,888	269,828	269,872	269,773	269,849	269,682	269,814	16
72	270,401	270,425	270,365	270,409	270,310	270,385	270,219	270,350	16
73	270,938	270,962	270,902	270,945	270,847	270,922	270,755	270,887	16
74	271,475	271,499	271,438	271,482	271,383	271,459	271,291	271,423	16
75	286,966	286,990	286,929	286,973	286,874	286,950	286,782	286,914	17
76	287,503	287,527	287,466	287,510	287,411	287,486	287,319	287,450	17
77	288,040	288,063	288,003	288,047	287,948	288,023	287,855	287,987	17
78	288,577	288,600	288,540	288,583	288,484	288,560	288,391	288,523	17
79	289,114	289,137	289,077	289,120	289,021	289,096	288,928	289,060	17
80	304,605	304,628	304,568	304,611	304,512	304,587	304,419	304,550	18
81	305,142	305,165	305,105	305,148	305,049	305,124	304,955	305,087	18
82	305,679	305,702	305,642	305,685	305,585	305,660	305,491	305,623	18
83	306,216	306,239	306,178	306,222	306,122	306,197	306,028	306,160	18
84	321,707	321,730	321,669	321,713	321,612	321,688	321,518	321,651	19
85	322,244	322,267	322,206	322,250	322,149	322,225	322,054	322,187	19
86	322,781	322,804	322,743	322,786	322,686	322,761	322,590	322,724	19
87	323,318	323,341	323,279	323,323	323,222	323,298	323,127	323,260	19
88	323,855	323,878	323,816	323,860	323,759	323,835	323,663	323,797	19
89	339,346	339,369	339,307	339,351	339,250	339,326	339,154	339,287	20
90	339,883	339,906	339,844	339,888	339,786	339,862	339,690	339,824	20
91	340,420	340,443	340,381	340,425	340,323	340,399	340,226	340,360	20
92	340,956	340,980	340,918	340,961	340,859	340,936	340,763	340,897	20
93	341,493	341,516	341,454	341,498	341,396	341,472	341,299	341,433	20
94	356,985	357,008	356,946	356,989	356,887	356,963	356,790	356,924	21
95	357,521	357,545	357,482	357,526	357,424	357,500	357,326	357,461	21
96	358,058	358,081	358,019	358,063	357,960	358,037	357,862	357,997	21
97	358,595	358,618	358,556	358,600	358,497	358,574	358,398	358,534	21
98	359,132	359,155	359,093	359,137	359,033	359,110	358,935	359,070	21
99	374,623	374,646	374,584	374,628	374,524	374,601	374,425	374,561	22
100	375,160	375,183	375,121	375,165	375,061	375,138	374,962	375,098	22

Table A.27 — Inspection dimensions W, $\alpha = 37{,}5°$, $m = 8$, $S_{V\,max} = 12{,}566$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	34,158	34,187	34,130	34,179	34,088	34,166	34,018	34,146	2
7	34,874	34,903	34,845	34,894	34,802	34,881	34,731	34,860	2
8	55,528	55,557	55,499	55,548	55,456	55,535	55,383	55,514	3
9	56,244	56,273	56,214	56,264	56,170	56,250	56,097	56,228	3
10	56,959	56,988	56,930	56,979	56,885	56,965	56,810	56,943	3
11	57,675	57,704	57,645	57,694	57,600	57,680	57,524	57,657	3
12	58,390	58,419	58,360	58,409	58,314	58,395	58,238	58,372	3
13	79,045	79,074	79,014	79,064	78,968	79,049	78,891	79,026	4
14	79,761	79,790	79,730	79,779	79,683	79,764	79,606	79,740	4
15	80,476	80,505	80,445	80,495	80,398	80,479	80,320	80,455	4
16	81,192	81,221	81,160	81,210	81,113	81,194	81,034	81,170	4
17	101,847	101,876	101,815	101,865	101,767	101,848	101,688	101,824	5
18	102,563	102,591	102,530	102,580	102,482	102,564	102,402	102,538	5
19	103,278	103,307	103,246	103,295	103,197	103,279	103,117	103,253	5
20	103,994	104,023	103,961	104,011	103,913	103,994	103,831	103,968	5
21	104,710	104,738	104,677	104,726	104,628	104,709	104,546	104,683	5
22	125,365	125,393	125,332	125,381	125,282	125,364	125,200	125,337	6
23	126,080	126,109	126,047	126,097	125,997	126,079	125,914	126,052	6
24	126,796	126,824	126,763	126,812	126,712	126,794	126,629	126,767	6
25	127,512	127,540	127,478	127,528	127,428	127,509	127,344	127,482	6
26	128,228	128,256	128,194	128,243	128,143	128,225	128,058	128,197	6
27	148,882	148,911	148,848	148,898	148,797	148,879	148,712	148,851	7
28	149,598	149,626	149,564	149,613	149,513	149,594	149,427	149,566	7
29	150,314	150,342	150,280	150,329	150,228	150,310	150,142	150,281	7
30	151,030	151,058	150,995	151,044	150,943	151,025	150,857	150,996	7
31	151,746	151,773	151,711	151,760	151,659	151,741	151,572	151,711	7
32	172,401	172,428	172,366	172,415	172,313	172,395	172,226	172,365	8
33	173,116	173,144	173,081	173,130	173,028	173,110	172,941	173,080	8
34	173,832	173,860	173,797	173,846	173,744	173,826	173,656	173,795	8
35	174,548	174,575	174,513	174,561	174,459	174,541	174,370	174,510	8
36	175,264	175,291	175,228	175,277	175,175	175,257	175,085	175,225	8
37	195,919	195,946	195,883	195,932	195,829	195,911	195,740	195,879	9
38	196,635	196,662	196,599	196,647	196,545	196,626	196,455	196,595	9
39	197,350	197,378	197,314	197,363	197,260	197,342	197,170	197,310	9
40	198,066	198,093	198,030	198,079	197,975	198,057	197,885	198,025	9
41	218,721	218,748	218,685	218,733	218,630	218,712	218,539	218,679	10
42	219,437	219,464	219,400	219,449	219,345	219,427	219,254	219,394	10
43	220,153	220,180	220,116	220,165	220,061	220,143	219,969	220,109	10
44	220,869	220,896	220,832	220,880	220,776	220,858	220,684	220,825	10
45	221,585	221,611	221,548	221,596	221,492	221,574	221,399	221,540	10
46	242,240	242,266	242,202	242,251	242,146	242,228	242,053	242,194	11
47	242,956	242,982	242,918	242,966	242,862	242,944	242,768	242,909	11
48	243,671	243,698	243,634	243,682	243,577	243,659	243,484	243,624	11
49	244,387	244,414	244,350	244,398	244,293	244,375	244,199	244,340	11
50	245,103	245,129	245,065	245,113	245,008	245,090	244,914	245,055	11
51	265,758	265,784	265,720	265,768	265,663	265,745	265,568	265,709	12
52	266,474	266,500	266,436	266,484	266,379	266,460	266,283	266,424	12
53	267,190	267,216	267,152	267,199	267,094	267,176	266,998	267,140	12
54	267,906	267,932	267,867	267,915	267,810	267,891	267,714	267,855	12
55	268,622	268,648	268,583	268,631	268,525	268,607	268,429	268,570	12
56	289,277	289,303	289,238	289,286	289,180	289,261	289,083	289,225	13
57	289,992	290,018	289,954	290,001	289,895	289,977	289,798	289,940	13
58	290,708	290,734	290,669	290,717	290,611	290,692	290,514	290,655	13
59	291,424	291,450	291,385	291,433	291,327	291,408	291,229	291,370	13
60	312,079	312,105	312,040	312,088	311,981	312,063	311,883	312,025	14
61	312,795	312,821	312,756	312,803	312,697	312,778	312,598	312,740	14
62	313,511	313,537	313,472	313,519	313,412	313,494	313,314	313,455	14
63	314,227	314,252	314,187	314,235	314,127	314,209	314,028	314,171	14
64	314,943	314,968	314,903	314,950	314,843	314,925	314,743	314,886	14
65	335,598	335,623	335,557	335,605	335,497	335,579	335,397	335,540	15
66	336,313	336,339	336,273	336,321	336,213	336,295	336,112	336,256	15
67	337,029	337,055	336,989	337,037	336,928	337,011	336,827	336,971	15
68	337,745	337,771	337,705	337,752	337,644	337,726	337,543	337,686	15
69	338,461	338,487	338,420	338,468	338,359	338,442	338,258	338,402	15
70	359,116	359,142	359,075	359,123	359,014	359,096	358,912	359,056	16
71	359,832	359,857	359,791	359,839	359,729	359,812	359,627	359,771	16
72	360,548	360,573	360,506	360,554	360,445	360,528	360,342	360,487	16
73	361,263	361,289	361,222	361,270	361,160	361,243	361,057	361,202	16
74	361,979	362,005	361,938	361,986	361,876	361,959	361,772	361,917	16
75	382,634	382,660	382,593	382,641	382,530	382,613	382,426	382,572	17
76	383,350	383,376	383,308	383,357	383,246	383,329	383,141	383,287	17
77	384,066	384,092	384,024	384,072	383,961	384,045	383,857	384,003	17
78	384,782	384,807	384,740	384,788	384,677	384,760	384,572	384,718	17
79	385,498	385,523	385,456	385,504	385,392	385,476	385,287	385,433	17
80	406,153	406,178	406,110	406,159	406,047	406,130	405,941	406,088	18
81	406,869	406,894	406,826	406,874	406,762	406,846	406,656	406,803	18
82	407,584	407,610	407,542	407,590	407,478	407,562	407,371	407,519	18
83	408,300	408,326	408,257	408,306	408,193	408,277	408,086	408,234	18
84	428,955	428,981	428,912	428,961	428,848	428,932	428,740	428,888	19
85	429,671	429,697	429,628	429,677	429,563	429,648	429,456	429,604	19
86	430,387	430,413	430,344	430,392	430,279	430,363	430,171	430,319	19
87	431,103	431,128	431,059	431,108	430,994	431,079	430,886	431,035	19
88	431,819	431,844	431,775	431,824	431,710	431,794	431,601	431,750	19
89	452,474	452,499	452,430	452,479	452,364	452,449	452,255	452,404	20
90	453,189	453,215	453,146	453,194	453,080	453,165	452,970	453,120	20
91	453,905	453,931	453,861	453,910	453,795	453,880	453,685	453,835	20
92	454,621	454,647	454,577	454,626	454,511	454,596	454,400	454,551	20
93	455,337	455,363	455,293	455,342	455,226	455,312	455,115	455,266	20
94	475,992	476,018	475,948	475,997	475,881	475,966	475,770	475,921	21
95	476,708	476,734	476,663	476,712	476,596	476,682	476,485	476,636	21
96	477,424	477,450	477,379	477,428	477,312	477,398	477,200	477,351	21
97	478,140	478,165	478,095	478,144	478,027	478,113	477,915	478,067	21
98	478,855	478,881	478,810	478,860	478,743	478,829	478,630	478,782	21
99	499,510	499,536	499,465	499,515	499,397	499,484	499,284	499,437	22
100	500,226	500,252	500,181	500,230	500,113	500,199	499,999	500,152	22

Table A.28 — Inspection dimensions W, $\alpha = 37{,}5°$, $m = 10$, $S_{v\,max} = 15{,}708$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	42,706	42,737	42,676	42,727	42,630	42,713	42,554	42,690	2
7	43,600	43,631	43,569	43,621	43,523	43,606	43,446	43,583	2
8	69,419	69,449	69,387	69,439	69,340	69,424	69,262	69,400	3
9	70,313	70,344	70,281	70,333	70,234	70,318	70,154	70,294	3
10	71,207	71,238	71,175	71,228	71,127	71,212	71,047	71,187	3
11	72,102	72,133	72,069	72,122	72,021	72,106	71,939	72,080	3
12	72,997	73,027	72,964	73,016	72,914	72,999	72,832	72,974	3
13	98,815	98,846	98,782	98,834	98,732	98,817	98,649	98,791	4
14	99,710	99,740	99,676	99,729	99,626	99,711	99,542	99,685	4
15	100,604	100,635	100,570	100,623	100,520	100,605	100,435	100,578	4
16	101,499	101,529	101,465	101,517	101,414	101,499	101,328	101,472	4
17	127,317	127,348	127,283	127,336	127,231	127,317	127,145	127,289	5
18	128,212	128,242	128,177	128,230	128,125	128,211	128,039	128,183	5
19	129,107	129,137	129,072	129,124	129,019	129,106	128,932	129,077	5
20	130,002	130,032	129,966	130,019	129,913	130,000	129,825	129,970	5
21	130,896	130,926	130,861	130,913	130,808	130,894	130,719	130,864	5
22	156,715	156,745	156,679	156,731	156,626	156,712	156,536	156,682	6
23	157,610	157,640	157,574	157,626	157,520	157,606	157,430	157,576	6
24	158,504	158,534	158,468	158,520	158,414	158,500	158,323	158,469	6
25	159,399	159,429	159,363	159,415	159,308	159,394	159,217	159,363	6
26	160,294	160,323	160,257	160,309	160,202	160,289	160,111	160,257	6
27	186,113	186,142	186,076	186,128	186,020	186,107	185,928	186,075	7
28	187,007	187,037	186,970	187,022	186,915	187,001	186,822	186,969	7
29	187,902	187,931	187,865	187,917	187,809	187,895	187,716	187,862	7
30	188,797	188,826	188,759	188,811	188,703	188,790	188,609	188,756	7
31	189,692	189,721	189,654	189,706	189,597	189,684	189,503	189,650	7
32	215,510	215,539	215,472	215,524	215,416	215,502	215,321	215,468	8
33	216,405	216,434	216,367	216,419	216,310	216,396	216,215	216,362	8
34	217,300	217,329	217,262	217,313	217,204	217,291	217,108	217,256	8
35	218,195	218,224	218,156	218,208	218,098	218,185	218,002	218,150	8
36	219,090	219,118	219,051	219,102	218,993	219,079	218,896	219,044	8
37	244,908	244,937	244,869	244,921	244,811	244,898	244,714	244,862	9
38	245,803	245,832	245,764	245,815	245,705	245,792	245,608	245,756	9
39	246,698	246,726	246,659	246,710	246,600	246,686	246,502	246,650	9
40	247,593	247,621	247,553	247,605	247,494	247,581	247,396	247,544	9
41	273,412	273,440	273,372	273,423	273,313	273,399	273,213	273,362	10
42	274,306	274,335	274,267	274,318	274,207	274,293	274,107	274,256	10
43	275,201	275,229	275,161	275,212	275,101	275,188	275,001	275,150	10
44	276,096	276,124	276,056	276,107	275,996	276,082	275,895	276,044	10
45	276,991	277,019	276,951	277,002	276,890	276,976	276,789	276,938	10
46	302,810	302,838	302,769	302,820	302,709	302,795	302,607	302,756	11
47	303,705	303,732	303,664	303,715	303,603	303,689	303,501	303,650	11
48	304,599	304,627	304,559	304,609	304,497	304,584	304,395	304,544	11
49	305,494	305,522	305,453	305,504	305,392	305,478	305,289	305,438	11
50	306,389	306,417	306,348	306,399	306,286	306,372	306,183	306,333	11
51	332,208	332,235	332,166	332,217	332,104	332,191	332,000	332,151	12
52	333,102	333,130	333,061	333,112	332,998	333,085	332,894	333,045	12
53	333,997	334,025	333,955	334,006	333,893	333,980	333,788	333,939	12
54	334,892	334,920	334,850	334,901	334,787	334,874	334,682	334,833	12
55	335,787	335,815	335,745	335,796	335,681	335,769	335,576	335,727	12
56	361,606	361,633	361,563	361,614	361,500	361,587	361,394	361,545	13
57	362,500	362,528	362,458	362,509	362,394	362,481	362,287	362,439	13
58	363,395	363,423	363,352	363,404	363,288	363,376	363,181	363,334	13
59	364,290	364,318	364,247	364,298	364,183	364,270	364,075	364,228	13
60	365,185	365,213	365,142	365,193	365,077	365,165	364,969	365,122	13
61	391,004	391,031	390,960	391,012	390,895	390,983	390,787	390,940	14
62	391,898	391,926	391,855	391,906	391,790	391,878	391,681	391,834	14
63	392,793	392,821	392,750	392,801	392,684	392,772	392,575	392,729	14
64	393,688	393,716	393,644	393,696	393,578	393,667	393,468	393,623	14
65	419,507	419,534	419,463	419,514	419,396	419,485	419,286	419,441	15
66	420,402	420,429	420,357	420,409	420,291	420,380	420,180	420,335	15
67	421,296	421,324	421,252	421,304	421,185	421,274	421,074	421,229	15
68	422,191	422,219	422,147	422,198	422,079	422,169	421,968	422,124	15
69	423,086	423,114	423,041	423,093	422,974	423,063	422,862	423,018	15
70	448,905	448,933	448,860	448,912	448,792	448,882	448,679	448,836	16
71	449,800	449,827	449,754	449,806	449,686	449,776	449,573	449,730	16
72	450,694	450,722	450,649	450,701	450,581	450,671	450,467	450,624	16
73	451,589	451,617	451,544	451,596	451,475	451,565	451,361	451,519	16
74	452,484	452,512	452,438	452,490	452,369	452,460	452,255	452,413	16
75	478,303	478,331	478,257	478,309	478,188	478,278	478,073	478,231	17
76	479,198	479,225	479,151	479,204	479,082	479,173	478,966	479,125	17
77	480,092	480,120	480,046	480,099	479,976	480,067	479,860	480,020	17
78	480,987	481,015	480,941	480,993	480,871	480,962	480,754	480,914	17
79	481,882	481,910	481,835	481,888	481,765	481,856	481,648	481,808	17
80	507,701	507,729	507,654	507,707	507,583	507,675	507,466	507,626	18
81	508,596	508,624	508,548	508,601	508,478	508,569	508,360	508,521	18
82	509,490	509,518	509,443	509,496	509,372	509,464	509,254	509,415	18
83	510,385	510,413	510,338	510,391	510,266	510,358	510,147	510,309	18
84	536,204	536,232	536,156	536,209	536,085	536,177	535,965	536,128	19
85	537,099	537,127	537,051	537,104	536,979	537,071	536,859	537,022	19
86	537,994	538,022	537,945	537,999	537,873	537,966	537,753	537,916	19
87	538,888	538,917	538,840	538,894	538,768	538,861	538,647	538,811	19
88	539,783	539,812	539,735	539,788	539,662	539,755	539,541	539,705	19
89	565,602	565,630	565,553	565,607	565,480	565,574	565,358	565,523	20
90	566,497	566,525	566,448	566,502	566,375	566,468	566,252	566,417	20
91	567,392	567,420	567,342	567,397	567,269	567,363	567,146	567,312	20
92	568,286	568,315	568,237	568,291	568,163	568,257	568,040	568,206	20
93	569,181	569,210	569,132	569,186	569,058	569,152	568,934	569,100	20
94	595,000	595,029	594,950	595,005	594,876	594,971	594,752	594,919	21
95	595,895	595,923	595,845	595,899	595,770	595,865	595,646	595,813	21
96	596,790	596,818	596,740	596,794	596,664	596,760	596,539	596,707	21
97	597,684	597,713	597,634	597,689	597,559	597,654	597,433	597,602	21
98	598,579	598,608	598,529	598,584	598,453	598,549	598,327	598,496	21
99	624,398	624,427	624,347	624,402	624,271	624,367	624,145	624,314	22
100	625,293	625,322	625,242	625,297	625,166	625,262	625,039	625,209	22

Table A.29 — Inspection dimensions W, $\alpha = 45°$, $m = 0{,}25$, $S_{v\,max} = 0{,}393$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	1,048	1,054	1,040	1,051	1,028	1,046	1,009	1,039	2
7	1,641	1,647	1,633	1,644	1,621	1,639	1,601	1,632	3
8	1,679	1,685	1,671	1,682	1,659	1,677	1,638	1,669	3
9	1,716	1,723	1,708	1,720	1,696	1,715	1,676	1,707	3
10	1,754	1,761	1,746	1,758	1,734	1,753	1,713	1,745	3
11	2,347	2,354	2,339	2,351	2,327	2,346	2,306	2,338	4
12	2,385	2,392	2,377	2,389	2,364	2,384	2,343	2,376	4
13	2,423	2,430	2,414	2,426	2,402	2,422	2,381	2,413	4
14	2,461	2,468	2,452	2,464	2,439	2,459	2,418	2,451	4
15	3,054	3,061	3,045	3,058	3,032	3,053	3,011	3,044	5
16	3,092	3,099	3,083	3,095	3,070	3,090	3,048	3,082	5
17	3,130	3,137	3,121	3,133	3,108	3,128	3,086	3,120	5
18	3,167	3,175	3,159	3,171	3,145	3,166	3,124	3,158	5
19	3,761	3,768	3,752	3,764	3,738	3,759	3,716	3,751	6
20	3,798	3,806	3,790	3,802	3,776	3,797	3,754	3,789	6
21	3,836	3,844	3,827	3,840	3,814	3,835	3,792	3,826	6
22	3,874	3,881	3,865	3,878	3,852	3,873	3,829	3,864	6
23	4,467	4,475	4,458	4,471	4,445	4,466	4,422	4,457	7
24	4,505	4,513	4,496	4,509	4,482	4,504	4,460	4,495	7
25	4,543	4,550	4,534	4,547	4,520	4,542	4,497	4,533	7
26	5,136	5,144	5,127	5,140	5,113	5,135	5,090	5,126	8
27	5,174	5,182	5,165	5,178	5,151	5,173	5,128	5,164	8
28	5,212	5,219	5,203	5,216	5,189	5,210	5,166	5,202	8
29	5,250	5,257	5,240	5,254	5,227	5,248	5,203	5,239	8
30	5,843	5,851	5,834	5,847	5,820	5,841	5,796	5,833	9
31	5,881	5,888	5,872	5,885	5,857	5,879	5,834	5,870	9
32	5,919	5,926	5,909	5,923	5,895	5,917	5,872	5,908	9
33	5,957	5,964	5,947	5,960	5,933	5,955	5,909	5,946	9
34	6,550	6,557	6,540	6,554	6,526	6,548	6,502	6,539	10
35	6,588	6,595	6,578	6,592	6,564	6,586	6,540	6,577	10
36	6,626	6,633	6,616	6,629	6,602	6,624	6,578	6,615	10
37	6,664	6,671	6,654	6,667	6,639	6,662	6,615	6,653	10
38	7,257	7,264	7,247	7,260	7,233	7,255	7,208	7,246	11
39	7,295	7,302	7,285	7,298	7,270	7,293	7,246	7,284	11
40	7,332	7,340	7,323	7,336	7,308	7,331	7,284	7,321	11
41	7,370	7,378	7,361	7,374	7,346	7,368	7,321	7,359	11
42	7,964	7,971	7,954	7,967	7,939	7,962	7,914	7,952	12
43	8,001	8,009	7,992	8,005	7,977	8,000	7,952	7,990	12
44	8,039	8,047	8,029	8,043	8,015	8,037	7,990	8,028	12
45	8,077	8,085	8,067	8,081	8,052	8,075	8,028	8,066	12
46	8,670	8,678	8,661	8,674	8,646	8,668	8,621	8,659	13
47	8,708	8,716	8,698	8,712	8,683	8,706	8,658	8,697	13
48	8,746	8,754	8,736	8,750	8,721	8,744	8,696	8,735	13
49	8,784	8,792	8,774	8,788	8,759	8,782	8,734	8,773	13
50	9,377	9,385	9,367	9,381	9,352	9,375	9,327	9,366	14
51	9,415	9,423	9,405	9,419	9,390	9,413	9,365	9,404	14
52	9,453	9,461	9,443	9,457	9,428	9,451	9,402	9,441	14
53	9,491	9,499	9,481	9,495	9,466	9,489	9,440	9,479	14
54	10,084	10,092	10,074	10,088	10,059	10,082	10,033	10,072	15
55	10,122	10,130	10,112	10,126	10,097	10,120	10,071	10,110	15
56	10,160	10,168	10,150	10,164	10,134	10,158	10,109	10,148	15
57	10,198	10,206	10,188	10,202	10,172	10,196	10,147	10,186	15
58	10,791	10,799	10,781	10,795	10,765	10,789	10,740	10,779	16
59	10,829	10,837	10,819	10,833	10,803	10,827	10,777	10,817	16
60	10,867	10,875	10,857	10,871	10,841	10,865	10,815	10,855	16
61	10,905	10,913	10,894	10,908	10,879	10,902	10,853	10,893	16
62	11,498	11,506	11,488	11,502	11,472	11,496	11,446	11,486	17
63	11,536	11,544	11,526	11,540	11,510	11,534	11,484	11,524	17
64	11,574	11,582	11,563	11,577	11,548	11,571	11,522	11,562	17
65	11,612	11,620	11,601	11,615	11,586	11,609	11,559	11,599	17
66	12,205	12,213	12,195	12,209	12,179	12,202	12,152	12,193	18
67	12,243	12,251	12,232	12,247	12,217	12,240	12,190	12,230	18
68	12,281	12,289	12,270	12,284	12,254	12,278	12,228	12,268	18
69	12,319	12,327	12,308	12,322	12,292	12,316	12,266	12,306	18
70	12,912	12,920	12,901	12,916	12,885	12,909	12,859	12,899	19
71	12,950	12,958	12,939	12,953	12,923	12,947	12,897	12,937	19
72	12,988	12,996	12,977	12,991	12,961	12,985	12,934	12,975	19
73	13,026	13,034	13,015	13,029	12,999	13,023	12,972	13,013	19
74	13,619	13,627	13,608	13,622	13,592	13,616	13,565	13,606	20
75	13,657	13,665	13,646	13,660	13,630	13,654	13,603	13,644	20
76	13,695	13,703	13,684	13,698	13,668	13,692	13,641	13,682	20
77	13,733	13,741	13,722	13,736	13,706	13,730	13,679	13,720	20
78	14,326	14,334	14,315	14,329	14,299	14,323	14,272	14,313	21
79	14,364	14,372	14,353	14,367	14,337	14,361	14,310	14,351	21
80	14,402	14,410	14,391	14,405	14,375	14,399	14,347	14,388	21
81	14,440	14,448	14,429	14,443	14,412	14,437	14,385	14,426	21
82	15,033	15,041	15,022	15,036	15,006	15,030	14,978	15,019	22
83	15,071	15,079	15,060	15,074	15,043	15,068	15,016	15,057	22
84	15,109	15,117	15,098	15,112	15,081	15,106	15,054	15,095	22
85	15,147	15,155	15,136	15,150	15,119	15,143	15,092	15,133	22
86	15,740	15,748	15,729	15,743	15,712	15,737	15,685	15,726	23
87	15,778	15,786	15,767	15,781	15,750	15,775	15,723	15,764	23
88	15,816	15,824	15,805	15,819	15,788	15,812	15,760	15,802	23
89	15,854	15,862	15,842	15,857	15,826	15,850	15,798	15,840	23
90	16,447	16,455	16,436	16,450	16,419	16,444	16,391	16,433	24
91	16,485	16,493	16,474	16,488	16,457	16,481	16,429	16,471	24
92	16,523	16,531	16,511	16,526	16,495	16,519	16,467	16,509	24
93	16,560	16,568	16,549	16,564	16,533	16,557	16,505	16,547	24
94	17,154	17,162	17,143	17,157	17,126	17,150	17,098	17,140	25
95	17,192	17,200	17,180	17,195	17,164	17,188	17,136	17,178	25
96	17,230	17,238	17,218	17,233	17,202	17,226	17,174	17,215	25
97	17,267	17,275	17,256	17,271	17,239	17,264	17,211	17,253	25
98	17,861	17,869	17,849	17,864	17,833	17,857	17,804	17,847	26
99	17,899	17,907	17,887	17,902	17,870	17,895	17,842	17,884	26
100	17,937	17,945	17,925	17,940	17,908	17,933	17,880	17,922	26

Table A.30 — Inspection dimensions W, $\alpha = 45°$, $m = 0{,}5$, $S_{v\,max} = 0{,}785$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	2,105	2,114	2,095	2,111	2,080	2,106	2,056	2,097	2
7	3,291	3,301	3,281	3,297	3,266	3,292	3,241	3,284	3
8	3,367	3,376	3,357	3,373	3,342	3,368	3,316	3,359	3
9	3,443	3,452	3,432	3,449	3,417	3,443	3,391	3,435	3
10	3,518	3,528	3,508	3,524	3,492	3,519	3,467	3,510	3
11	4,705	4,714	4,694	4,711	4,679	4,705	4,652	4,697	4
12	4,780	4,790	4,770	4,786	4,754	4,781	4,728	4,772	4
13	4,856	4,866	4,845	4,862	4,829	4,857	4,803	4,848	4
14	4,932	4,942	4,921	4,938	4,905	4,932	4,878	4,924	4
15	6,118	6,128	6,107	6,124	6,091	6,119	6,064	6,110	5
16	6,194	6,204	6,183	6,200	6,167	6,195	6,139	6,185	5
17	6,270	6,280	6,259	6,276	6,242	6,270	6,215	6,261	5
18	6,346	6,355	6,334	6,352	6,318	6,346	6,290	6,337	5
19	7,532	7,542	7,521	7,538	7,504	7,532	7,476	7,523	6
20	7,608	7,618	7,597	7,614	7,580	7,608	7,552	7,599	6
21	7,683	7,694	7,672	7,689	7,655	7,684	7,627	7,674	6
22	7,759	7,769	7,748	7,765	7,731	7,759	7,702	7,750	6
23	8,946	8,956	8,934	8,952	8,917	8,946	8,889	8,936	7
24	9,022	9,032	9,010	9,027	8,993	9,022	8,964	9,012	7
25	9,097	9,107	9,086	9,103	9,068	9,097	9,040	9,088	7
26	9,173	9,183	9,161	9,179	9,144	9,173	9,115	9,163	7
27	10,360	10,370	10,348	10,365	10,330	10,359	10,301	10,350	8
28	10,435	10,446	10,424	10,441	10,406	10,435	10,377	10,425	8
29	10,511	10,521	10,499	10,517	10,482	10,511	10,452	10,501	8
30	10,587	10,597	10,575	10,593	10,557	10,587	10,528	10,577	8
31	11,773	11,784	11,762	11,779	11,744	11,773	11,714	11,763	9
32	11,849	11,859	11,837	11,855	11,819	11,849	11,789	11,839	9
33	11,925	11,935	11,913	11,931	11,895	11,925	11,865	11,914	9
34	12,001	12,011	11,989	12,007	11,971	12,000	11,941	11,990	9
35	13,187	13,198	13,175	13,193	13,157	13,187	13,127	13,177	10
36	13,263	13,273	13,251	13,269	13,233	13,262	13,202	13,252	10
37	13,339	13,349	13,327	13,345	13,308	13,338	13,278	13,328	10
38	13,415	13,425	13,402	13,420	13,384	13,414	13,353	13,404	10
39	14,601	14,611	14,589	14,607	14,570	14,600	14,540	14,590	11
40	14,677	14,687	14,665	14,683	14,646	14,676	14,615	14,666	11
41	14,753	14,763	14,740	14,758	14,722	14,752	14,691	14,741	11
42	14,829	14,839	14,816	14,834	14,798	14,828	14,766	14,817	11
43	16,015	16,025	16,003	16,021	15,984	16,014	15,953	16,004	12
44	16,091	16,101	16,078	16,097	16,060	16,090	16,028	16,079	12
45	16,167	16,177	16,154	16,172	16,135	16,166	16,104	16,155	12
46	16,242	16,253	16,230	16,248	16,211	16,241	16,180	16,231	12
47	17,429	17,439	17,416	17,435	17,397	17,428	17,366	17,417	13
48	17,505	17,515	17,492	17,510	17,473	17,504	17,441	17,493	13
49	17,581	17,591	17,568	17,586	17,549	17,579	17,517	17,568	13
50	17,656	17,667	17,644	17,662	17,625	17,655	17,593	17,644	13
51	18,843	18,853	18,830	18,848	18,811	18,842	18,779	18,831	14
52	18,919	18,929	18,906	18,924	18,887	18,917	18,855	18,906	14
53	18,995	19,005	18,982	19,000	18,962	18,993	18,930	18,982	14
54	19,070	19,081	19,057	19,076	19,038	19,069	19,006	19,058	14
55	20,257	20,267	20,244	20,262	20,225	20,255	20,192	20,244	15
56	20,333	20,343	20,320	20,338	20,300	20,331	20,268	20,320	15
57	20,409	20,419	20,396	20,414	20,376	20,407	20,343	20,396	15
58	20,484	20,495	20,471	20,490	20,452	20,483	20,419	20,471	15
59	21,671	21,681	21,658	21,676	21,638	21,669	21,605	21,658	16
60	21,747	21,757	21,734	21,752	21,714	21,745	21,681	21,733	16
61	21,823	21,833	21,809	21,828	21,790	21,821	21,757	21,809	16
62	21,898	21,909	21,885	21,904	21,865	21,896	21,832	21,885	16
63	23,085	23,095	23,072	23,090	23,052	23,083	23,019	23,071	17
64	23,161	23,171	23,147	23,166	23,128	23,159	23,094	23,147	17
65	23,237	23,247	23,223	23,242	23,203	23,234	23,170	23,223	17
66	23,312	23,323	23,299	23,317	23,279	23,310	23,246	23,299	17
67	24,499	24,509	24,486	24,504	24,465	24,497	24,432	24,485	18
68	24,575	24,585	24,561	24,580	24,541	24,572	24,508	24,561	18
69	24,650	24,661	24,637	24,656	24,617	24,648	24,583	24,636	18
70	24,726	24,737	24,713	24,731	24,693	24,724	24,659	24,712	18
71	25,913	25,923	25,899	25,918	25,879	25,910	25,845	25,899	19
72	25,989	25,999	25,975	25,994	25,955	25,986	25,921	25,974	19
73	26,064	26,075	26,051	26,070	26,031	26,062	25,997	26,050	19
74	26,140	26,151	26,127	26,145	26,106	26,138	26,072	26,126	19
75	27,327	27,337	27,313	27,332	27,293	27,324	27,259	27,312	20
76	27,403	27,413	27,389	27,408	27,369	27,400	27,334	27,388	20
77	27,479	27,489	27,465	27,483	27,444	27,476	27,410	27,464	20
78	27,554	27,565	27,541	27,559	27,520	27,552	27,486	27,539	20
79	28,741	28,751	28,727	28,746	28,707	28,738	28,672	28,726	21
80	28,817	28,827	28,803	28,822	28,782	28,814	28,748	28,802	21
81	28,893	28,903	28,879	28,897	28,858	28,890	28,824	28,877	21
82	28,968	28,979	28,955	28,973	28,934	28,965	28,899	28,953	21
83	30,155	30,165	30,141	30,160	30,120	30,152	30,086	30,140	22
84	30,231	30,241	30,217	30,236	30,196	30,228	30,161	30,215	22
85	30,307	30,317	30,293	30,311	30,272	30,303	30,237	30,291	22
86	30,382	30,393	30,368	30,387	30,348	30,379	30,313	30,367	22
87	31,569	31,579	31,555	31,574	31,534	31,566	31,499	31,553	23
88	31,645	31,655	31,631	31,649	31,610	31,641	31,575	31,629	23
89	31,721	31,731	31,707	31,725	31,686	31,717	31,651	31,705	23
90	31,796	31,807	31,782	31,801	31,761	31,793	31,726	31,780	23
91	32,983	32,993	32,969	32,988	32,948	32,980	32,913	32,967	24
92	33,059	33,069	33,045	33,063	33,024	33,055	32,988	33,043	24
93	33,135	33,145	33,120	33,139	33,099	33,131	33,064	33,118	24
94	33,210	33,221	33,196	33,215	33,175	33,207	33,140	33,194	24
95	34,397	34,407	34,383	34,402	34,362	34,393	34,326	34,381	25
96	34,473	34,483	34,459	34,477	34,437	34,469	34,402	34,456	25
97	34,549	34,559	34,534	34,553	34,513	34,545	34,478	34,532	25
98	34,624	34,635	34,610	34,629	34,589	34,621	34,553	34,608	25
99	35,811	35,821	35,797	35,815	35,775	35,807	35,740	35,794	26
100	35,887	35,897	35,873	35,891	35,851	35,883	35,815	35,870	26

Table A.31 — Inspection dimensions W, $\alpha = 45°$, $m = 0{,}75$, $S_{v\,max} = 1{,}178$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	3,163	3,174	3,152	3,171	3,135	3,165	3,107	3,157	2
7	4,943	4,954	4,931	4,950	4,914	4,945	4,886	4,936	3
8	5,056	5,068	5,045	5,064	5,027	5,058	4,998	5,050	3
9	5,170	5,181	5,158	5,178	5,141	5,172	5,111	5,163	3
10	5,284	5,295	5,272	5,291	5,254	5,285	5,224	5,276	3
11	7,063	7,075	7,051	7,071	7,033	7,065	7,003	7,056	4
12	7,177	7,188	7,165	7,184	7,147	7,179	7,116	7,169	4
13	7,290	7,302	7,278	7,298	7,260	7,292	7,229	7,283	4
14	7,404	7,416	7,392	7,412	7,373	7,406	7,343	7,396	4
15	9,184	9,196	9,171	9,191	9,153	9,185	9,122	9,176	5
16	9,297	9,309	9,285	9,305	9,266	9,299	9,235	9,289	5
17	9,411	9,423	9,399	9,419	9,380	9,413	9,348	9,403	5
18	9,525	9,537	9,512	9,532	9,493	9,526	9,461	9,516	5
19	11,305	11,316	11,292	11,312	11,273	11,306	11,241	11,296	6
20	11,418	11,430	11,405	11,426	11,386	11,419	11,354	11,409	6
21	11,532	11,544	11,519	11,539	11,500	11,533	11,467	11,523	6
22	11,646	11,657	11,633	11,653	11,613	11,647	11,580	11,636	6
23	13,425	13,437	13,412	13,433	13,393	13,426	13,360	13,416	7
24	13,539	13,551	13,526	13,546	13,506	13,540	13,473	13,530	7
25	13,653	13,665	13,639	13,660	13,620	13,654	13,587	13,643	7
26	13,766	13,778	13,753	13,774	13,733	13,767	13,700	13,757	7
27	15,546	15,558	15,533	15,553	15,513	15,547	15,479	15,536	8
28	15,660	15,672	15,646	15,667	15,626	15,660	15,593	15,650	8
29	15,774	15,786	15,760	15,781	15,740	15,774	15,706	15,763	8
30	15,887	15,899	15,874	15,894	15,853	15,888	15,819	15,877	8
31	17,667	17,679	17,653	17,674	17,633	17,667	17,599	17,656	9
32	17,781	17,793	17,767	17,788	17,747	17,781	17,712	17,770	9
33	17,894	17,906	17,881	17,902	17,860	17,895	17,826	17,884	9
34	18,008	18,020	17,994	18,015	17,974	18,008	17,939	17,997	9
35	19,788	19,800	19,774	19,795	19,753	19,788	19,719	19,777	10
36	19,902	19,914	19,888	19,909	19,867	19,902	19,832	19,890	10
37	20,015	20,027	20,001	20,022	19,980	20,015	19,946	20,004	10
38	20,129	20,141	20,115	20,136	20,094	20,129	20,059	20,118	10
39	21,909	21,921	21,895	21,916	21,874	21,909	21,838	21,897	11
40	22,023	22,035	22,009	22,030	21,987	22,022	21,952	22,011	11
41	22,136	22,148	22,122	22,143	22,101	22,136	22,065	22,124	11
42	22,250	22,262	22,236	22,257	22,214	22,250	22,179	22,238	11
43	24,030	24,042	24,016	24,037	23,994	24,029	23,958	24,018	12
44	24,144	24,156	24,129	24,150	24,108	24,143	24,072	24,131	12
45	24,257	24,269	24,243	24,264	24,221	24,257	24,185	24,245	12
46	24,371	24,383	24,357	24,378	24,335	24,370	24,299	24,358	12
47	26,151	26,163	26,136	26,158	26,115	26,150	26,078	26,138	13
48	26,265	26,277	26,250	26,271	26,228	26,264	26,192	26,252	13
49	26,378	26,390	26,364	26,385	26,342	26,377	26,305	26,365	13
50	26,492	26,504	26,477	26,499	26,456	26,491	26,419	26,479	13
51	28,272	28,284	28,257	28,278	28,235	28,271	28,199	28,259	14
52	28,386	28,398	28,371	28,392	28,349	28,384	28,312	28,372	14
53	28,499	28,511	28,485	28,506	28,462	28,498	28,426	28,486	14
54	28,613	28,625	28,598	28,620	28,576	28,612	28,539	28,599	14
55	30,393	30,405	30,378	30,399	30,356	30,391	30,319	30,379	15
56	30,507	30,519	30,492	30,513	30,469	30,505	30,432	30,493	15
57	30,620	30,632	30,605	30,627	30,583	30,619	30,546	30,606	15
58	30,734	30,746	30,719	30,740	30,697	30,732	30,659	30,720	15
59	32,514	32,526	32,499	32,520	32,476	32,512	32,439	32,500	16
60	32,628	32,640	32,613	32,634	32,590	32,626	32,552	32,613	16
61	32,741	32,753	32,726	32,748	32,704	32,740	32,666	32,727	16
62	32,855	32,867	32,840	32,861	32,817	32,853	32,779	32,840	16
63	34,635	34,647	34,620	34,641	34,597	34,633	34,559	34,620	17
64	34,749	34,761	34,734	34,755	34,711	34,747	34,673	34,734	17
65	34,863	34,875	34,847	34,869	34,824	34,860	34,786	34,847	17
66	34,976	34,988	34,961	34,982	34,938	34,974	34,900	34,961	17
67	36,756	36,768	36,741	36,762	36,718	36,754	36,679	36,741	18
68	36,870	36,882	36,854	36,876	36,831	36,867	36,793	36,854	18
69	36,984	36,996	36,968	36,990	36,945	36,981	36,906	36,968	18
70	37,097	37,109	37,082	37,103	37,059	37,095	37,020	37,082	18
71	38,877	38,889	38,862	38,883	38,838	38,875	38,800	38,861	19
72	38,991	39,003	38,975	38,997	38,952	38,988	38,913	38,975	19
73	39,105	39,117	39,089	39,111	39,066	39,102	39,027	39,089	19
74	39,218	39,230	39,203	39,224	39,179	39,216	39,140	39,202	19
75	40,998	41,010	40,983	41,004	40,959	40,995	40,920	40,982	20
76	41,112	41,124	41,096	41,118	41,073	41,109	41,034	41,095	20
77	41,226	41,238	41,210	41,231	41,186	41,223	41,147	41,209	20
78	41,340	41,351	41,324	41,345	41,300	41,336	41,261	41,323	20
79	43,119	43,131	43,104	43,125	43,080	43,116	43,040	43,102	21
80	43,233	43,245	43,217	43,239	43,194	43,230	43,154	43,216	21
81	43,347	43,359	43,331	43,352	43,307	43,344	43,268	43,330	21
82	43,461	43,473	43,445	43,466	43,421	43,457	43,381	43,443	21
83	45,240	45,252	45,225	45,246	45,201	45,237	45,161	45,223	22
84	45,354	45,366	45,338	45,360	45,314	45,351	45,274	45,337	22
85	45,468	45,480	45,452	45,473	45,428	45,464	45,388	45,450	22
86	45,582	45,594	45,566	45,587	45,542	45,578	45,502	45,564	22
87	47,362	47,373	47,345	47,367	47,321	47,358	47,281	47,344	23
88	47,475	47,487	47,459	47,481	47,435	47,472	47,395	47,457	23
89	47,589	47,601	47,573	47,594	47,549	47,585	47,508	47,571	23
90	47,703	47,715	47,687	47,708	47,662	47,699	47,622	47,685	23
91	49,483	49,494	49,466	49,488	49,442	49,479	49,402	49,464	24
92	49,596	49,608	49,580	49,602	49,556	49,592	49,515	49,578	24
93	49,710	49,722	49,694	49,715	49,670	49,706	49,629	49,692	24
94	49,824	49,836	49,808	49,829	49,783	49,820	49,743	49,805	24
95	51,604	51,616	51,587	51,609	51,563	51,600	51,522	51,585	25
96	51,718	51,729	51,701	51,723	51,677	51,713	51,636	51,699	25
97	51,831	51,843	51,815	51,836	51,790	51,827	51,749	51,812	25
98	51,945	51,957	51,929	51,950	51,904	51,941	51,863	51,926	25
99	53,725	53,737	53,708	53,730	53,684	53,720	53,643	53,706	26
100	53,839	53,850	53,822	53,844	53,797	53,834	53,756	53,819	26

Table A.32 — Inspection dimensions W, $\alpha = 45°$, $m = 1$, $S_{V\,max} = 1{,}571$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	4,222	4,235	4,210	4,231	4,191	4,225	4,160	4,216	2
7	6,595	6,608	6,582	6,604	6,563	6,598	6,532	6,589	3
8	6,746	6,759	6,734	6,755	6,714	6,749	6,683	6,740	3
9	6,898	6,911	6,885	6,907	6,866	6,901	6,833	6,891	3
10	7,049	7,062	7,036	7,058	7,017	7,052	6,984	7,042	3
11	9,422	9,435	9,409	9,431	9,389	9,425	9,356	9,415	4
12	9,574	9,587	9,560	9,583	9,540	9,576	9,507	9,566	4
13	9,725	9,738	9,712	9,734	9,692	9,728	9,658	9,718	4
14	9,877	9,890	9,863	9,886	9,843	9,879	9,809	9,869	4
15	12,250	12,263	12,236	12,259	12,216	12,252	12,182	12,242	5
16	12,401	12,415	12,388	12,410	12,367	12,404	12,333	12,393	5
17	12,553	12,566	12,539	12,562	12,518	12,555	12,484	12,545	5
18	12,705	12,718	12,691	12,713	12,670	12,707	12,635	12,696	5
19	15,078	15,091	15,064	15,086	15,042	15,080	15,007	15,069	6
20	15,229	15,242	15,215	15,238	15,194	15,231	15,158	15,220	6
21	15,381	15,394	15,367	15,389	15,345	15,383	15,310	15,372	6
22	15,532	15,546	15,518	15,541	15,497	15,534	15,461	15,523	6
23	17,905	17,919	17,891	17,914	17,869	17,907	17,833	17,896	7
24	18,057	18,070	18,043	18,065	18,021	18,058	17,985	18,047	7
25	18,209	18,222	18,194	18,217	18,172	18,210	18,136	18,199	7
26	18,360	18,374	18,346	18,369	18,324	18,361	18,287	18,350	7
27	20,733	20,747	20,719	20,742	20,697	20,734	20,660	20,723	8
28	20,885	20,898	20,870	20,893	20,848	20,886	20,811	20,874	8
29	21,037	21,050	21,022	21,045	20,999	21,038	20,962	21,026	8
30	21,188	21,202	21,173	21,196	21,151	21,189	21,113	21,177	8
31	23,561	23,575	23,546	23,569	23,524	23,562	23,486	23,550	9
32	23,713	23,726	23,698	23,721	23,675	23,714	23,637	23,702	9
33	23,865	23,878	23,849	23,873	23,827	23,865	23,789	23,853	9
34	24,016	24,030	24,001	24,024	23,978	24,017	23,940	24,005	9
35	26,389	26,403	26,374	26,397	26,351	26,390	26,313	26,378	10
36	26,541	26,554	26,526	26,549	26,503	26,541	26,464	26,529	10
37	26,693	26,706	26,677	26,700	26,654	26,693	26,615	26,680	10
38	26,844	26,858	26,829	26,852	26,806	26,844	26,767	26,832	10
39	29,217	29,231	29,202	29,225	29,178	29,217	29,140	29,205	11
40	29,369	29,382	29,353	29,377	29,330	29,369	29,291	29,356	11
41	29,521	29,534	29,505	29,528	29,481	29,520	29,442	29,508	11
42	29,672	29,686	29,657	29,680	29,633	29,672	29,594	29,659	11
43	32,045	32,059	32,030	32,053	32,006	32,045	31,967	32,032	12
44	32,197	32,210	32,181	32,205	32,157	32,196	32,118	32,184	12
45	32,349	32,362	32,333	32,356	32,309	32,348	32,269	32,335	12
46	32,500	32,514	32,484	32,508	32,460	32,500	32,421	32,487	12
47	34,873	34,887	34,857	34,881	34,833	34,873	34,793	34,860	13
48	35,025	35,038	35,009	35,032	34,985	35,024	34,945	35,011	13
49	35,177	35,190	35,161	35,184	35,137	35,176	35,096	35,163	13
50	35,328	35,342	35,312	35,336	35,288	35,327	35,248	35,314	13
51	37,702	37,715	37,685	37,709	37,661	37,700	37,621	37,687	14
52	37,853	37,866	37,837	37,860	37,813	37,852	37,772	37,838	14
53	38,005	38,018	37,989	38,012	37,964	38,003	37,923	37,990	14
54	38,157	38,170	38,140	38,164	38,116	38,155	38,075	38,141	14
55	40,530	40,543	40,513	40,537	40,489	40,528	40,448	40,514	15
56	40,681	40,695	40,665	40,688	40,640	40,680	40,599	40,666	15
57	40,833	40,846	40,816	40,840	40,792	40,831	40,750	40,817	15
58	40,985	40,998	40,968	40,992	40,943	40,983	40,902	40,969	15
59	43,358	43,371	43,341	43,365	43,316	43,356	43,275	43,342	16
60	43,509	43,523	43,493	43,516	43,468	43,507	43,426	43,493	16
61	43,661	43,674	43,644	43,668	43,619	43,659	43,578	43,645	16
62	43,813	43,826	43,796	43,820	43,771	43,811	43,729	43,796	16
63	46,186	46,199	46,169	46,193	46,144	46,184	46,102	46,169	17
64	46,338	46,351	46,321	46,344	46,296	46,335	46,253	46,321	17
65	46,489	46,502	46,472	46,496	46,447	46,487	46,405	46,472	17
66	46,641	46,654	46,624	46,648	46,599	46,638	46,556	46,624	17
67	49,014	49,027	48,997	49,021	48,972	49,011	48,929	48,997	18
68	49,166	49,179	49,149	49,172	49,123	49,163	49,081	49,149	18
69	49,317	49,330	49,300	49,324	49,275	49,315	49,232	49,300	18
70	49,469	49,482	49,452	49,475	49,426	49,466	49,384	49,452	18
71	51,842	51,855	51,825	51,849	51,799	51,839	51,757	51,825	19
72	51,994	52,007	51,977	52,000	51,951	51,991	51,908	51,976	19
73	52,146	52,159	52,128	52,152	52,103	52,142	52,060	52,128	19
74	52,297	52,310	52,280	52,303	52,254	52,294	52,211	52,279	19
75	54,670	54,683	54,653	54,677	54,627	54,667	54,584	54,652	20
76	54,822	54,835	54,805	54,828	54,779	54,819	54,735	54,804	20
77	54,974	54,987	54,956	54,980	54,930	54,970	54,887	54,955	20
78	55,125	55,138	55,108	55,131	55,082	55,122	55,038	55,107	20
79	57,498	57,512	57,481	57,505	57,455	57,495	57,411	57,480	21
80	57,650	57,663	57,633	57,656	57,606	57,646	57,563	57,631	21
81	57,802	57,815	57,784	57,808	57,758	57,798	57,714	57,783	21
82	57,954	57,967	57,936	57,960	57,910	57,950	57,866	57,934	21
83	60,327	60,340	60,309	60,333	60,283	60,323	60,239	60,307	22
84	60,478	60,491	60,461	60,484	60,434	60,474	60,390	60,459	22
85	60,630	60,643	60,612	60,636	60,586	60,626	60,542	60,610	22
86	60,782	60,795	60,764	60,788	60,737	60,777	60,693	60,762	22
87	63,155	63,168	63,137	63,161	63,110	63,151	63,066	63,135	23
88	63,307	63,319	63,289	63,312	63,262	63,302	63,218	63,287	23
89	63,458	63,471	63,440	63,464	63,414	63,454	63,369	63,438	23
90	63,610	63,623	63,592	63,616	63,565	63,605	63,521	63,590	23
91	65,983	65,996	65,965	65,989	65,938	65,978	65,894	65,963	24
92	66,135	66,148	66,117	66,140	66,090	66,130	66,045	66,114	24
93	66,286	66,299	66,268	66,292	66,242	66,282	66,197	66,266	24
94	66,438	66,451	66,420	66,444	66,393	66,433	66,348	66,417	24
95	68,811	68,824	68,793	68,817	68,766	68,806	68,721	68,790	25
96	68,963	68,976	68,945	68,968	68,918	68,958	68,873	68,942	25
97	69,115	69,127	69,096	69,120	69,069	69,110	69,024	69,093	25
98	69,266	69,279	69,248	69,272	69,221	69,261	69,176	69,245	25
99	71,639	71,652	71,621	71,645	71,594	71,634	71,549	71,618	26
100	71,791	71,804	71,773	71,796	71,746	71,786	71,700	71,770	26

Table A.33 — Inspection dimensions W, $\alpha = 45°$, $m = 1{,}25$, $S_{v\,max} = 1{,}963$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	5,281	5,295	5,268	5,291	5,248	5,285	5,214	5,275	2
7	8,247	8,261	8,234	8,257	8,213	8,251	8,179	8,241	3
8	8,437	8,451	8,423	8,446	8,402	8,440	8,368	8,430	3
9	8,626	8,640	8,612	8,636	8,591	8,630	8,556	8,620	3
10	8,815	8,829	8,801	8,825	8,780	8,819	8,745	8,809	3
11	11,782	11,796	11,767	11,791	11,746	11,785	11,710	11,775	4
12	11,971	11,985	11,957	11,981	11,935	11,974	11,899	11,964	4
13	12,161	12,175	12,146	12,170	12,124	12,164	12,088	12,153	4
14	12,350	12,364	12,335	12,360	12,313	12,353	12,277	12,342	4
15	15,316	15,331	15,302	15,326	15,279	15,319	15,243	15,308	5
16	15,506	15,520	15,491	15,515	15,469	15,508	15,431	15,498	5
17	15,695	15,710	15,680	15,705	15,658	15,698	15,620	15,687	5
18	15,885	15,899	15,870	15,894	15,847	15,887	15,809	15,876	5
19	18,851	18,865	18,836	18,860	18,813	18,853	18,775	18,842	6
20	19,041	19,055	19,025	19,050	19,002	19,043	18,964	19,031	6
21	19,230	19,244	19,215	19,239	19,192	19,232	19,153	19,221	6
22	19,420	19,434	19,404	19,429	19,381	19,422	19,342	19,410	6
23	22,386	22,400	22,370	22,395	22,347	22,388	22,308	22,376	7
24	22,576	22,590	22,560	22,585	22,536	22,577	22,497	22,565	7
25	22,765	22,779	22,749	22,774	22,726	22,767	22,686	22,755	7
26	22,955	22,969	22,939	22,964	22,915	22,956	22,875	22,944	7
27	25,921	25,935	25,905	25,930	25,881	25,922	25,841	25,910	8
28	26,110	26,125	26,094	26,119	26,071	26,112	26,031	26,099	8
29	26,300	26,314	26,284	26,309	26,260	26,301	26,220	26,289	8
30	26,490	26,504	26,473	26,498	26,449	26,491	26,409	26,478	8
31	29,456	29,470	29,440	29,465	29,415	29,457	29,375	29,444	9
32	29,646	29,660	29,629	29,654	29,605	29,646	29,564	29,634	9
33	29,835	29,849	29,819	29,844	29,794	29,836	29,753	29,823	9
34	30,025	30,039	30,008	30,033	29,984	30,025	29,942	30,012	9
35	32,991	33,005	32,974	33,000	32,950	32,991	32,908	32,978	10
36	33,181	33,195	33,164	33,189	33,139	33,181	33,098	33,168	10
37	33,370	33,385	33,354	33,379	33,329	33,370	33,287	33,357	10
38	33,560	33,574	33,543	33,568	33,518	33,560	33,476	33,547	10
39	36,526	36,540	36,509	36,534	36,484	36,526	36,442	36,513	11
40	36,716	36,730	36,699	36,724	36,674	36,715	36,631	36,702	11
41	36,905	36,920	36,888	36,914	36,863	36,905	36,821	36,891	11
42	37,095	37,109	37,078	37,103	37,052	37,094	37,010	37,081	11
43	40,061	40,076	40,044	40,069	40,019	40,061	39,976	40,047	12
44	40,251	40,265	40,234	40,259	40,208	40,250	40,165	40,236	12
45	40,440	40,455	40,423	40,448	40,397	40,440	40,355	40,426	12
46	40,630	40,644	40,613	40,638	40,587	40,629	40,544	40,615	12
47	43,596	43,611	43,579	43,604	43,553	43,595	43,510	43,581	13
48	43,786	43,800	43,769	43,794	43,743	43,785	43,699	43,771	13
49	43,976	43,990	43,958	43,983	43,932	43,974	43,889	43,960	13
50	44,165	44,179	44,148	44,173	44,122	44,164	44,078	44,150	13
51	47,132	47,146	47,114	47,139	47,088	47,130	47,044	47,116	14
52	47,321	47,335	47,304	47,329	47,277	47,320	47,233	47,305	14
53	47,511	47,525	47,493	47,518	47,467	47,509	47,423	47,495	14
54	47,700	47,715	47,683	47,708	47,656	47,699	47,612	47,684	14
55	50,667	50,681	50,649	50,674	50,622	50,665	50,578	50,650	15
56	50,856	50,871	50,839	50,864	50,812	50,854	50,767	50,840	15
57	51,046	51,060	51,028	51,053	51,001	51,044	50,957	51,029	15
58	51,235	51,250	51,218	51,243	51,191	51,233	51,146	51,218	15
59	54,202	54,216	54,184	54,209	54,157	54,200	54,112	54,185	16
60	54,391	54,406	54,374	54,399	54,347	54,389	54,302	54,374	16
61	54,581	54,595	54,563	54,588	54,536	54,579	54,491	54,564	16
62	54,771	54,785	54,753	54,778	54,726	54,768	54,680	54,753	16
63	57,737	57,751	57,719	57,744	57,692	57,734	57,647	57,719	17
64	57,927	57,941	57,909	57,934	57,881	57,924	57,836	57,909	17
65	58,116	58,130	58,098	58,123	58,071	58,113	58,025	58,098	17
66	58,306	58,320	58,288	58,313	58,260	58,303	58,215	58,287	17
67	61,272	61,286	61,254	61,279	61,227	61,269	61,181	61,254	18
68	61,462	61,476	61,444	61,469	61,416	61,459	61,370	61,443	18
69	61,651	61,666	61,633	61,658	61,606	61,648	61,560	61,633	18
70	61,841	61,855	61,823	61,848	61,795	61,838	61,749	61,822	18
71	64,808	64,822	64,789	64,814	64,761	64,804	64,715	64,788	19
72	64,997	65,011	64,979	65,004	64,951	64,994	64,904	64,978	19
73	65,187	65,201	65,168	65,193	65,140	65,183	65,094	65,167	19
74	65,376	65,390	65,358	65,383	65,330	65,373	65,283	65,357	19
75	68,343	68,357	68,324	68,349	68,296	68,339	68,249	68,323	20
76	68,532	68,546	68,514	68,539	68,486	68,528	68,439	68,512	20
77	68,722	68,736	68,703	68,728	68,675	68,718	68,628	68,702	20
78	68,912	68,926	68,893	68,918	68,865	68,907	68,818	68,891	20
79	71,878	71,892	71,859	71,884	71,831	71,874	71,784	71,857	21
80	72,068	72,082	72,049	72,074	72,020	72,063	71,973	72,047	21
81	72,257	72,271	72,238	72,264	72,210	72,253	72,163	72,236	21
82	72,447	72,461	72,428	72,453	72,399	72,442	72,352	72,426	21
83	75,413	75,427	75,394	75,419	75,366	75,409	75,318	75,392	22
84	75,603	75,617	75,584	75,609	75,555	75,598	75,508	75,581	22
85	75,792	75,806	75,773	75,799	75,745	75,788	75,697	75,771	22
86	75,982	75,996	75,963	75,988	75,934	75,977	75,886	75,960	22
87	78,949	78,962	78,929	78,955	78,901	78,944	78,853	78,927	23
88	79,138	79,152	79,119	79,144	79,090	79,133	79,042	79,116	23
89	79,328	79,342	79,308	79,334	79,280	79,323	79,231	79,306	23
90	79,517	79,531	79,498	79,523	79,469	79,512	79,421	79,495	23
91	82,484	82,498	82,464	82,490	82,435	82,478	82,387	82,461	24
92	82,673	82,687	82,654	82,679	82,625	82,668	82,577	82,651	24
93	82,863	82,877	82,844	82,869	82,815	82,858	82,766	82,840	24
94	83,053	83,066	83,033	83,058	83,004	83,047	82,955	83,030	24
95	86,019	86,033	86,000	86,025	85,970	86,013	85,922	85,996	25
96	86,209	86,222	86,189	86,214	86,160	86,203	86,111	86,185	25
97	86,398	86,412	86,379	86,404	86,349	86,392	86,300	86,375	25
98	86,588	86,602	86,568	86,593	86,539	86,582	86,490	86,564	25
99	89,554	89,568	89,535	89,560	89,505	89,548	89,456	89,531	26
100	89,744	89,758	89,724	89,749	89,695	89,738	89,646	89,720	26

Table A.34 — Inspection dimensions W, $\alpha = 45°$, $m = 1{,}5$, $S_{v\,max} = 2{,}356$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	6,340	6,355	6,326	6,351	6,305	6,345	6,269	6,335	2
7	9,900	9,915	9,885	9,910	9,864	9,904	9,828	9,894	3
8	10,127	10,142	10,112	10,138	10,090	10,131	10,054	10,121	3
9	10,354	10,369	10,340	10,365	10,317	10,358	10,280	10,348	3
10	10,582	10,597	10,567	10,592	10,544	10,586	10,507	10,575	3
11	14,141	14,156	14,126	14,152	14,103	14,145	14,066	14,134	4
12	14,369	14,384	14,353	14,379	14,330	14,372	14,292	14,361	4
13	14,596	14,611	14,580	14,606	14,557	14,599	14,519	14,588	4
14	14,823	14,839	14,808	14,834	14,784	14,827	14,746	14,815	4
15	18,383	18,398	18,367	18,393	18,344	18,386	18,304	18,375	5
16	18,610	18,626	18,594	18,621	18,571	18,613	18,531	18,602	5
17	18,838	18,853	18,822	18,848	18,798	18,841	18,758	18,829	5
18	19,065	19,080	19,049	19,075	19,025	19,068	18,985	19,056	5
19	22,625	22,640	22,609	22,635	22,584	22,627	22,544	22,615	6
20	22,852	22,868	22,836	22,862	22,812	22,855	22,771	22,843	6
21	23,080	23,095	23,063	23,090	23,039	23,082	22,998	23,070	6
22	23,307	23,322	23,291	23,317	23,266	23,309	23,225	23,297	6
23	26,867	26,882	26,850	26,877	26,825	26,869	26,784	26,856	7
24	27,094	27,110	27,078	27,104	27,053	27,096	27,011	27,084	7
25	27,322	27,337	27,305	27,331	27,280	27,323	27,238	27,311	7
26	27,549	27,564	27,532	27,559	27,507	27,551	27,465	27,538	7
27	31,109	31,124	31,092	31,118	31,066	31,110	31,024	31,097	8
28	31,336	31,352	31,319	31,346	31,294	31,338	31,251	31,325	8
29	31,564	31,579	31,547	31,573	31,521	31,565	31,478	31,552	8
30	31,791	31,806	31,774	31,801	31,748	31,792	31,705	31,779	8
31	35,351	35,366	35,334	35,360	35,308	35,352	35,264	35,338	9
32	35,578	35,594	35,561	35,588	35,535	35,579	35,492	35,566	9
33	35,806	35,821	35,788	35,815	35,762	35,806	35,719	35,793	9
34	36,033	36,049	36,016	36,042	35,990	36,034	35,946	36,020	9
35	39,593	39,608	39,575	39,602	39,549	39,593	39,505	39,580	10
36	39,820	39,836	39,803	39,829	39,776	39,821	39,732	39,807	10
37	40,048	40,063	40,030	40,057	40,004	40,048	39,959	40,034	10
38	40,275	40,291	40,258	40,284	40,231	40,275	40,186	40,261	10
39	43,835	43,850	43,817	43,844	43,790	43,835	43,746	43,821	11
40	44,063	44,078	44,045	44,071	44,018	44,062	43,973	44,048	11
41	44,290	44,305	44,272	44,299	44,245	44,290	44,200	44,275	11
42	44,518	44,533	44,500	44,526	44,472	44,517	44,427	44,503	11
43	48,077	48,093	48,059	48,086	48,032	48,077	47,987	48,062	12
44	48,305	48,320	48,287	48,313	48,259	48,304	48,214	48,289	12
45	48,532	48,548	48,514	48,541	48,487	48,531	48,441	48,517	12
46	48,760	48,775	48,742	48,768	48,714	48,759	48,668	48,744	12
47	52,320	52,335	52,301	52,328	52,274	52,318	52,228	52,303	13
48	52,547	52,562	52,529	52,555	52,501	52,546	52,455	52,531	13
49	52,775	52,790	52,756	52,783	52,728	52,773	52,682	52,758	13
50	53,002	53,017	52,983	53,010	52,956	53,001	52,909	52,985	13
51	56,562	56,577	56,543	56,570	56,515	56,560	56,469	56,545	14
52	56,789	56,804	56,771	56,797	56,743	56,787	56,696	56,772	14
53	57,017	57,032	56,998	57,025	56,970	57,015	56,923	56,999	14
54	57,244	57,259	57,225	57,252	57,197	57,242	57,150	57,227	14
55	60,804	60,819	60,785	60,812	60,757	60,802	60,710	60,786	15
56	61,032	61,047	61,013	61,039	60,984	61,029	60,937	61,014	15
57	61,259	61,274	61,240	61,267	61,212	61,257	61,164	61,241	15
58	61,487	61,502	61,468	61,494	61,439	61,484	61,391	61,468	15
59	65,046	65,061	65,027	65,054	64,999	65,044	64,951	65,028	16
60	65,274	65,289	65,255	65,281	65,226	65,271	65,178	65,255	16
61	65,501	65,516	65,482	65,509	65,453	65,499	65,405	65,482	16
62	65,729	65,744	65,710	65,736	65,681	65,726	65,633	65,710	16
63	69,289	69,304	69,269	69,296	69,240	69,286	69,192	69,269	17
64	69,516	69,531	69,497	69,523	69,468	69,513	69,419	69,497	17
65	69,744	69,759	69,724	69,751	69,695	69,740	69,647	69,724	17
66	69,971	69,986	69,952	69,978	69,923	69,968	69,874	69,951	17
67	73,531	73,546	73,511	73,538	73,482	73,527	73,433	73,511	18
68	73,758	73,773	73,739	73,766	73,709	73,755	73,661	73,738	18
69	73,986	74,001	73,966	73,993	73,937	73,982	73,888	73,965	18
70	74,213	74,228	74,194	74,221	74,164	74,210	74,115	74,193	18
71	77,773	77,788	77,753	77,780	77,724	77,769	77,675	77,752	19
72	78,001	78,016	77,981	78,008	77,951	77,997	77,902	77,980	19
73	78,228	78,243	78,208	78,235	78,179	78,224	78,129	78,207	19
74	78,456	78,471	78,436	78,463	78,406	78,452	78,357	78,434	19
75	82,015	82,030	81,996	82,022	81,966	82,011	81,916	81,994	20
76	82,243	82,258	82,223	82,250	82,193	82,239	82,143	82,221	20
77	82,471	82,485	82,451	82,477	82,421	82,466	82,371	82,449	20
78	82,698	82,713	82,678	82,705	82,648	82,693	82,598	82,676	20
79	86,258	86,273	86,238	86,264	86,208	86,253	86,157	86,235	21
80	86,485	86,500	86,465	86,492	86,435	86,480	86,385	86,463	21
81	86,713	86,728	86,693	86,719	86,662	86,708	86,612	86,690	21
82	86,940	86,955	86,920	86,947	86,890	86,935	86,839	86,918	21
83	90,500	90,515	90,480	90,507	90,449	90,495	90,399	90,477	22
84	90,728	90,742	90,707	90,734	90,677	90,722	90,626	90,704	22
85	90,955	90,970	90,935	90,962	90,904	90,950	90,853	90,932	22
86	91,183	91,197	91,162	91,189	91,132	91,177	91,081	91,159	22
87	94,742	94,757	94,722	94,749	94,691	94,737	94,640	94,719	23
88	94,970	94,985	94,950	94,976	94,919	94,964	94,868	94,946	23
89	95,198	95,212	95,177	95,204	95,146	95,192	95,095	95,173	23
90	95,425	95,440	95,405	95,431	95,374	95,419	95,322	95,401	23
91	98,985	98,999	98,964	98,991	98,933	98,979	98,882	98,960	24
92	99,212	99,227	99,192	99,218	99,161	99,206	99,109	99,188	24
93	99,440	99,454	99,419	99,446	99,388	99,434	99,336	99,415	24
94	99,667	99,682	99,647	99,673	99,616	99,661	99,564	99,643	24
95	103,227	103,242	103,206	103,233	103,175	103,221	103,123	103,202	25
96	103,455	103,469	103,434	103,460	103,403	103,448	103,351	103,429	25
97	103,682	103,697	103,661	103,688	103,630	103,676	103,578	103,657	25
98	103,910	103,924	103,889	103,915	103,858	103,903	103,805	103,884	25
99	107,470	107,484	107,449	107,475	107,417	107,463	107,365	107,444	26
100	107,697	107,712	107,676	107,703	107,645	107,690	107,592	107,671	26

Table A.35 — Inspection dimensions W, $\alpha = 45°$, $m = 1{,}75$, $S_{v\,max} = 2{,}749$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	7,400	7,415	7,385	7,411	7,362	7,405	7,325	7,394	2
7	11,552	11,568	11,537	11,564	11,514	11,557	11,476	11,547	3
8	11,818	11,833	11,802	11,829	11,779	11,822	11,741	11,812	3
9	12,083	12,099	12,067	12,094	12,044	12,087	12,005	12,076	3
10	12,348	12,364	12,332	12,359	12,309	12,352	12,269	12,341	3
11	16,501	16,517	16,485	16,512	16,461	16,505	16,421	16,494	4
12	16,766	16,782	16,750	16,777	16,726	16,770	16,686	16,759	4
13	17,031	17,048	17,015	17,043	16,991	17,035	16,950	17,024	4
14	17,297	17,313	17,280	17,308	17,256	17,300	17,215	17,289	4
15	21,450	21,466	21,433	21,461	21,408	21,453	21,367	21,441	5
16	21,715	21,731	21,698	21,726	21,673	21,718	21,632	21,706	5
17	21,980	21,996	21,964	21,991	21,938	21,983	21,896	21,971	5
18	22,246	22,262	22,229	22,256	22,203	22,249	22,161	22,236	5
19	26,399	26,415	26,382	26,409	26,356	26,401	26,313	26,389	6
20	26,664	26,680	26,647	26,675	26,621	26,667	26,578	26,654	6
21	26,929	26,945	26,912	26,940	26,886	26,932	26,843	26,919	6
22	27,195	27,211	27,177	27,205	27,151	27,197	27,108	27,184	6
23	31,348	31,364	31,330	31,358	31,304	31,350	31,260	31,337	7
24	31,613	31,629	31,595	31,623	31,569	31,615	31,525	31,602	7
25	31,878	31,895	31,861	31,889	31,834	31,880	31,790	31,867	7
26	32,144	32,160	32,126	32,154	32,099	32,145	32,055	32,132	7
27	36,297	36,313	36,279	36,307	36,252	36,298	36,207	36,285	8
28	36,562	36,578	36,544	36,572	36,517	36,563	36,472	36,550	8
29	36,828	36,844	36,809	36,837	36,782	36,829	36,737	36,815	8
30	37,093	37,109	37,075	37,103	37,048	37,094	37,002	37,080	8
31	41,246	41,262	41,228	41,256	41,200	41,247	41,155	41,233	9
32	41,511	41,527	41,493	41,521	41,466	41,512	41,420	41,498	9
33	41,777	41,793	41,758	41,786	41,731	41,777	41,685	41,763	9
34	42,042	42,058	42,024	42,052	41,996	42,043	41,950	42,028	9
35	46,195	46,211	46,177	46,205	46,149	46,195	46,102	46,181	10
36	46,460	46,477	46,442	46,470	46,414	46,461	46,367	46,446	10
37	46,726	46,742	46,707	46,735	46,679	46,726	46,632	46,711	10
38	46,991	47,007	46,973	47,001	46,944	46,991	46,898	46,976	10
39	51,144	51,160	51,125	51,154	51,097	51,144	51,050	51,129	11
40	51,410	51,426	51,391	51,419	51,362	51,409	51,315	51,394	11
41	51,675	51,691	51,656	51,684	51,628	51,675	51,580	51,660	11
42	51,941	51,957	51,922	51,950	51,893	51,940	51,845	51,925	11
43	56,094	56,110	56,074	56,103	56,046	56,093	55,998	56,077	12
44	56,359	56,375	56,340	56,368	56,311	56,358	56,263	56,343	12
45	56,624	56,640	56,605	56,633	56,576	56,623	56,528	56,608	12
46	56,890	56,906	56,871	56,899	56,842	56,889	56,793	56,873	12
47	61,043	61,059	61,023	61,052	60,994	61,041	60,946	61,026	13
48	61,308	61,324	61,289	61,317	61,260	61,307	61,211	61,291	13
49	61,574	61,590	61,554	61,582	61,525	61,572	61,476	61,556	13
50	61,839	61,855	61,820	61,848	61,790	61,837	61,741	61,821	13
51	65,992	66,008	65,973	66,001	65,943	65,990	65,894	65,974	14
52	66,258	66,273	66,238	66,266	66,208	66,256	66,159	66,239	14
53	66,523	66,539	66,503	66,531	66,474	66,521	66,424	66,505	14
54	66,789	66,804	66,769	66,797	66,739	66,786	66,689	66,770	14
55	70,941	70,957	70,922	70,950	70,892	70,939	70,842	70,923	15
56	71,207	71,223	71,187	71,215	71,157	71,204	71,107	71,188	15
57	71,472	71,488	71,452	71,480	71,422	71,470	71,372	71,453	15
58	71,738	71,754	71,718	71,746	71,688	71,735	71,637	71,718	15
59	75,891	75,907	75,871	75,899	75,841	75,888	75,790	75,871	16
60	76,156	76,172	76,136	76,164	76,106	76,153	76,055	76,136	16
61	76,422	76,437	76,402	76,430	76,371	76,419	76,321	76,401	16
62	76,687	76,703	76,667	76,695	76,636	76,684	76,586	76,667	16
63	80,840	80,856	80,820	80,848	80,789	80,837	80,738	80,820	17
64	81,106	81,121	81,085	81,113	81,055	81,102	81,004	81,085	17
65	81,371	81,387	81,351	81,379	81,320	81,367	81,269	81,350	17
66	81,637	81,652	81,616	81,644	81,585	81,633	81,534	81,615	17
67	85,790	85,805	85,769	85,797	85,738	85,786	85,687	85,768	18
68	86,055	86,071	86,034	86,062	86,003	86,051	85,952	86,033	18
69	86,321	86,336	86,300	86,328	86,269	86,316	86,217	86,299	18
70	86,586	86,602	86,565	86,593	86,534	86,582	86,482	86,564	18
71	90,739	90,754	90,718	90,746	90,687	90,735	90,635	90,717	19
72	91,004	91,020	90,984	91,012	90,952	91,000	90,900	90,982	19
73	91,270	91,285	91,249	91,277	91,218	91,265	91,165	91,247	19
74	91,535	91,551	91,514	91,542	91,483	91,531	91,431	91,512	19
75	95,688	95,704	95,667	95,695	95,636	95,683	95,583	95,665	20
76	95,954	95,969	95,933	95,961	95,901	95,949	95,849	95,930	20
77	96,219	96,235	96,198	96,226	96,167	96,214	96,114	96,196	20
78	96,485	96,500	96,464	96,492	96,432	96,480	96,379	96,461	20
79	100,638	100,653	100,617	100,645	100,585	100,632	100,532	100,614	21
80	100,903	100,919	100,882	100,910	100,850	100,898	100,797	100,879	21
81	101,169	101,184	101,147	101,175	101,116	101,163	101,062	101,144	21
82	101,434	101,450	101,413	101,441	101,381	101,428	101,327	101,410	21
83	105,587	105,603	105,566	105,594	105,534	105,581	105,480	105,562	22
84	105,853	105,868	105,831	105,859	105,799	105,847	105,745	105,828	22
85	106,118	106,133	106,097	106,125	106,064	106,112	106,011	106,093	22
86	106,384	106,399	106,362	106,390	106,330	106,377	106,276	106,358	22
87	110,537	110,552	110,515	110,543	110,483	110,530	110,429	110,511	23
88	110,802	110,817	110,781	110,808	110,748	110,796	110,694	110,776	23
89	111,068	111,083	111,046	111,074	111,013	111,061	110,959	111,042	23
90	111,333	111,348	111,311	111,339	111,279	111,326	111,224	111,307	23
91	115,486	115,501	115,464	115,492	115,432	115,479	115,377	115,460	24
92	115,752	115,767	115,730	115,758	115,697	115,745	115,643	115,725	24
93	116,017	116,032	115,995	116,023	115,962	116,010	115,908	115,990	24
94	116,283	116,298	116,261	116,288	116,228	116,275	116,173	116,256	24
95	120,436	120,451	120,414	120,441	120,381	120,428	120,326	120,408	25
96	120,701	120,716	120,679	120,707	120,646	120,694	120,591	120,674	25
97	120,967	120,982	120,944	120,972	120,911	120,959	120,856	120,939	25
98	121,232	121,247	121,210	121,238	121,177	121,225	121,122	121,204	25
99	125,385	125,400	125,363	125,391	125,330	125,377	125,274	125,357	26
100	125,651	125,665	125,628	125,656	125,595	125,643	125,540	125,622	26

Table A.36 — Inspection dimensions W, $\alpha = 45°$, $m = 2$, $S_{V\,max} = 3{,}142$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	8,459	8,476	8,444	8,471	8,420	8,465	8,381	8,454	2
7	13,205	13,222	13,189	13,217	13,165	13,210	13,126	13,199	3
8	13,508	13,525	13,492	13,520	13,468	13,513	13,428	13,502	3
9	13,811	13,828	13,795	13,823	13,771	13,816	13,730	13,805	3
10	14,115	14,131	14,098	14,126	14,073	14,119	14,032	14,108	3
11	18,861	18,878	18,844	18,872	18,819	18,865	18,777	18,854	4
12	19,164	19,181	19,147	19,176	19,122	19,168	19,080	19,156	4
13	19,467	19,484	19,450	19,479	19,425	19,471	19,382	19,459	4
14	19,770	19,787	19,753	19,782	19,728	19,774	19,685	19,762	4
15	24,517	24,533	24,499	24,528	24,473	24,520	24,430	24,508	5
16	24,820	24,837	24,802	24,831	24,776	24,823	24,733	24,811	5
17	25,123	25,140	25,106	25,134	25,079	25,126	25,035	25,114	5
18	25,426	25,443	25,409	25,438	25,382	25,429	25,338	25,417	5
19	30,173	30,189	30,155	30,184	30,128	30,175	30,083	30,163	6
20	30,476	30,493	30,458	30,487	30,431	30,479	30,386	30,465	6
21	30,779	30,796	30,761	30,790	30,734	30,782	30,689	30,768	6
22	31,082	31,099	31,064	31,093	31,037	31,085	30,992	31,071	6
23	35,829	35,846	35,810	35,839	35,783	35,831	35,737	35,817	7
24	36,132	36,149	36,114	36,143	36,086	36,134	36,040	36,120	7
25	36,435	36,452	36,417	36,446	36,389	36,437	36,343	36,423	7
26	36,739	36,755	36,720	36,749	36,692	36,740	36,646	36,726	7
27	41,485	41,502	41,466	41,495	41,438	41,486	41,391	41,472	8
28	41,788	41,805	41,769	41,799	41,741	41,789	41,694	41,775	8
29	42,091	42,108	42,073	42,102	42,044	42,093	41,997	42,078	8
30	42,395	42,412	42,376	42,405	42,347	42,396	42,300	42,381	8
31	47,141	47,158	47,122	47,151	47,093	47,142	47,046	47,127	9
32	47,444	47,461	47,425	47,455	47,396	47,445	47,349	47,430	9
33	47,748	47,765	47,728	47,758	47,700	47,748	47,652	47,733	9
34	48,051	48,068	48,032	48,061	48,003	48,051	47,954	48,036	9
35	52,797	52,814	52,778	52,807	52,749	52,798	52,700	52,782	10
36	53,101	53,117	53,081	53,110	53,052	53,101	53,003	53,085	10
37	53,404	53,421	53,384	53,414	53,355	53,404	53,306	53,389	10
38	53,707	53,724	53,688	53,717	53,658	53,707	53,609	53,692	10
39	58,454	58,470	58,434	58,463	58,404	58,453	58,355	58,438	11
40	58,757	58,774	58,737	58,767	58,707	58,756	58,658	58,741	11
41	59,060	59,077	59,040	59,070	59,011	59,060	58,961	59,044	11
42	59,364	59,380	59,344	59,373	59,314	59,363	59,264	59,347	11
43	64,110	64,127	64,090	64,119	64,060	64,109	64,010	64,093	12
44	64,413	64,430	64,393	64,423	64,363	64,412	64,313	64,396	12
45	64,717	64,733	64,697	64,726	64,666	64,715	64,616	64,699	12
46	65,020	65,037	65,000	65,029	64,969	65,019	64,919	65,002	12
47	69,766	69,783	69,746	69,775	69,716	69,765	69,665	69,748	13
48	70,070	70,086	70,049	70,079	70,019	70,068	69,968	70,051	13
49	70,373	70,390	70,353	70,382	70,322	70,371	70,271	70,354	13
50	70,676	70,693	70,656	70,685	70,625	70,674	70,574	70,658	13
51	75,423	75,439	75,402	75,431	75,371	75,420	75,320	75,404	14
52	75,726	75,743	75,705	75,735	75,674	75,724	75,623	75,707	14
53	76,030	76,046	76,009	76,038	75,978	76,027	75,926	76,010	14
54	76,333	76,349	76,312	76,341	76,281	76,330	76,229	76,313	14
55	81,079	81,096	81,058	81,088	81,027	81,076	80,975	81,059	15
56	81,383	81,399	81,362	81,391	81,330	81,380	81,278	81,362	15
57	81,686	81,702	81,665	81,694	81,633	81,683	81,581	81,665	15
58	81,989	82,006	81,968	81,998	81,937	81,986	81,884	81,968	15
59	86,736	86,752	86,714	86,744	86,683	86,732	86,630	86,714	16
60	87,039	87,055	87,018	87,047	86,986	87,035	86,933	87,018	16
61	87,342	87,359	87,321	87,350	87,289	87,339	87,236	87,321	16
62	87,646	87,662	87,624	87,654	87,593	87,642	87,539	87,624	16
63	92,392	92,408	92,371	92,400	92,339	92,388	92,285	92,370	17
64	92,695	92,712	92,674	92,703	92,642	92,691	92,588	92,673	17
65	92,999	93,015	92,977	93,007	92,945	92,995	92,892	92,976	17
66	93,302	93,318	93,281	93,310	93,248	93,298	93,195	93,279	17
67	98,049	98,065	98,027	98,056	97,995	98,044	97,941	98,025	18
68	98,352	98,368	98,330	98,359	98,298	98,347	98,244	98,329	18
69	98,655	98,671	98,634	98,663	98,601	98,651	98,547	98,632	18
70	98,959	98,975	98,937	98,966	98,904	98,954	98,850	98,935	18
71	103,705	103,721	103,683	103,712	103,650	103,700	103,596	103,681	19
72	104,008	104,024	103,987	104,016	103,954	104,003	103,899	103,984	19
73	104,312	104,328	104,290	104,319	104,257	104,307	104,202	104,287	19
74	104,615	104,631	104,593	104,622	104,560	104,610	104,505	104,591	19
75	109,361	109,377	109,339	109,369	109,306	109,356	109,251	109,337	20
76	109,665	109,681	109,643	109,672	109,610	109,659	109,555	109,640	20
77	109,968	109,984	109,946	109,975	109,913	109,963	109,858	109,943	20
78	110,272	110,288	110,250	110,279	110,216	110,266	110,161	110,246	20
79	115,018	115,034	114,996	115,025	114,962	115,012	114,907	114,992	21
80	115,321	115,337	115,299	115,328	115,266	115,315	115,210	115,295	21
81	115,625	115,641	115,602	115,631	115,569	115,619	115,513	115,599	21
82	115,928	115,944	115,906	115,935	115,872	115,922	115,816	115,902	21
83	120,674	120,690	120,652	120,681	120,618	120,668	120,562	120,648	22
84	120,978	120,994	120,955	120,984	120,922	120,971	120,865	120,951	22
85	121,281	121,297	121,259	121,288	121,225	121,275	121,169	121,254	22
86	121,585	121,601	121,562	121,591	121,528	121,578	121,472	121,558	22
87	126,331	126,347	126,308	126,337	126,274	126,324	126,218	126,304	23
88	126,634	126,650	126,612	126,641	126,578	126,627	126,521	126,607	23
89	126,938	126,954	126,915	126,944	126,881	126,931	126,824	126,910	23
90	127,241	127,257	127,218	127,247	127,184	127,234	127,127	127,213	23
91	131,988	132,003	131,965	131,994	131,930	131,980	131,873	131,959	24
92	132,291	132,307	132,268	132,297	132,234	132,283	132,177	132,263	24
93	132,594	132,610	132,571	132,600	132,537	132,587	132,480	132,566	24
94	132,898	132,913	132,875	132,904	132,840	132,890	132,783	132,869	24
95	137,644	137,660	137,621	137,650	137,587	137,636	137,529	137,615	25
96	137,947	137,963	137,924	137,953	137,890	137,939	137,832	137,918	25
97	138,251	138,266	138,228	138,257	138,193	138,243	138,135	138,222	25
98	138,554	138,570	138,531	138,560	138,496	138,546	138,439	138,525	25
99	143,301	143,316	143,277	143,306	143,243	143,292	143,185	143,271	26
100	143,604	143,620	143,581	143,610	143,546	143,595	143,488	143,574	26

Table A.37 — Inspection dimensions W, $\alpha = 45°$, $m = 2{,}5$, $S_{v\,max} = 3{,}927$

z	Measurement of the dimension W on number of teeth k (checking of dimensions S_{min} and S_{max}) for tolerance classes								k
	4h		5h		6h		7h		
	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	min.	max. (aux)	
6	10,578	10,596	10,562	10,592	10,536	10,584	10,494	10,573	2
7	16,511	16,529	16,494	16,524	16,468	16,517	16,425	16,505	3
8	16,890	16,908	16,873	16,903	16,847	16,896	16,803	16,884	3
9	17,269	17,287	17,251	17,282	17,225	17,274	17,181	17,262	3
10	17,648	17,666	17,630	17,661	17,603	17,653	17,559	17,641	3
11	23,581	23,599	23,563	23,593	23,536	23,586	23,491	23,573	4
12	23,960	23,978	23,942	23,972	23,914	23,964	23,869	23,952	4
13	24,339	24,357	24,320	24,351	24,293	24,343	24,247	24,330	4
14	24,718	24,736	24,699	24,730	24,672	24,722	24,625	24,709	4
15	30,651	30,669	30,632	30,663	30,604	30,655	30,557	30,641	5
16	31,030	31,048	31,011	31,042	30,983	31,033	30,936	31,020	5
17	31,409	31,427	31,390	31,421	31,361	31,412	31,314	31,399	5
18	31,788	31,806	31,769	31,800	31,740	31,791	31,692	31,778	5
19	37,721	37,739	37,701	37,733	37,673	37,724	37,625	37,710	6
20	38,100	38,118	38,081	38,112	38,051	38,103	38,003	38,089	6
21	38,479	38,497	38,460	38,491	38,430	38,482	38,382	38,467	6
22	38,858	38,876	38,839	38,870	38,809	38,861	38,760	38,846	6
23	44,791	44,809	44,771	44,803	44,742	44,793	44,692	44,779	7
24	45,170	45,188	45,150	45,182	45,121	45,172	45,071	45,157	7
25	45,549	45,567	45,529	45,561	45,499	45,551	45,450	45,536	7
26	45,928	45,947	45,908	45,940	45,878	45,930	45,828	45,915	7
27	51,861	51,879	51,841	51,873	51,811	51,863	51,760	51,847	8
28	52,240	52,259	52,220	52,252	52,190	52,242	52,139	52,226	8
29	52,620	52,638	52,599	52,631	52,569	52,621	52,518	52,605	8
30	52,999	53,017	52,978	53,010	52,948	53,000	52,896	52,984	8
31	58,932	58,950	58,911	58,943	58,880	58,932	58,829	58,916	9
32	59,311	59,329	59,290	59,322	59,259	59,311	59,207	59,295	9
33	59,690	59,708	59,669	59,701	59,638	59,690	59,586	59,674	9
34	60,069	60,087	60,048	60,080	60,017	60,069	59,965	60,053	9
35	66,002	66,020	65,981	66,013	65,950	66,002	65,897	65,986	10
36	66,381	66,399	66,360	66,392	66,329	66,381	66,276	66,364	10
37	66,761	66,778	66,739	66,771	66,708	66,760	66,655	66,743	10
38	67,140	67,158	67,119	67,150	67,087	67,139	67,034	67,122	10
39	73,073	73,090	73,051	73,083	73,019	73,072	72,966	73,055	11
40	73,452	73,470	73,430	73,462	73,398	73,451	73,345	73,434	11
41	73,831	73,849	73,810	73,841	73,777	73,830	73,724	73,813	11
42	74,210	74,228	74,189	74,220	74,156	74,209	74,102	74,192	11
43	80,143	80,161	80,121	80,153	80,089	80,142	80,035	80,124	12
44	80,522	80,540	80,501	80,532	80,468	80,521	80,414	80,503	12
45	80,902	80,919	80,880	80,911	80,847	80,900	80,793	80,882	12
46	81,281	81,299	81,259	81,290	81,226	81,279	81,171	81,261	12
47	87,214	87,231	87,192	87,223	87,159	87,211	87,104	87,193	13
48	87,593	87,611	87,571	87,602	87,538	87,590	87,483	87,572	13
49	87,972	87,990	87,950	87,981	87,917	87,970	87,862	87,951	13
50	88,351	88,369	88,329	88,361	88,296	88,349	88,240	88,330	13
51	94,284	94,302	94,262	94,293	94,229	94,281	94,173	94,263	14
52	94,663	94,681	94,641	94,672	94,608	94,660	94,552	94,642	14
53	95,043	95,060	95,020	95,052	94,987	95,039	94,931	95,021	14
54	95,422	95,439	95,399	95,431	95,366	95,419	95,310	95,400	14
55	101,355	101,372	101,332	101,364	101,298	101,351	101,242	101,332	15
56	101,734	101,752	101,711	101,743	101,677	101,730	101,621	101,711	15
57	102,113	102,131	102,091	102,122	102,057	102,109	102,000	102,090	15
58	102,493	102,510	102,470	102,501	102,436	102,488	102,379	102,469	15
59	108,425	108,443	108,403	108,434	108,368	108,421	108,311	108,402	16
60	108,805	108,822	108,782	108,813	108,747	108,800	108,690	108,781	16
61	109,184	109,201	109,161	109,192	109,127	109,179	109,069	109,160	16
62	109,563	109,580	109,540	109,571	109,506	109,558	109,448	109,539	16
63	115,496	115,513	115,473	115,504	115,438	115,491	115,381	115,471	17
64	115,875	115,893	115,852	115,883	115,817	115,870	115,759	115,850	17
65	116,255	116,272	116,231	116,262	116,196	116,249	116,138	116,229	17
66	116,634	116,651	116,611	116,642	116,576	116,628	116,517	116,608	17
67	122,567	122,584	122,543	122,574	122,508	122,561	122,450	122,541	18
68	122,946	122,963	122,923	122,954	122,887	122,940	122,829	122,920	18
69	123,325	123,342	123,302	123,333	123,267	123,319	123,208	123,299	18
70	123,704	123,722	123,681	123,712	123,646	123,699	123,587	123,678	18
71	129,637	129,654	129,614	129,645	129,578	129,631	129,519	129,610	19
72	130,017	130,034	129,993	130,024	129,957	130,010	129,898	129,989	19
73	130,396	130,413	130,372	130,403	130,337	130,389	130,277	130,368	19
74	130,775	130,792	130,751	130,782	130,716	130,769	130,656	130,747	19
75	136,708	136,725	136,684	136,715	136,648	136,701	136,589	136,680	20
76	137,087	137,104	137,063	137,094	137,028	137,080	136,968	137,059	20
77	137,467	137,483	137,443	137,474	137,407	137,460	137,347	137,438	20
78	137,846	137,863	137,822	137,853	137,786	137,839	137,726	137,817	20
79	143,779	143,796	143,755	143,786	143,718	143,771	143,658	143,750	21
80	144,158	144,175	144,134	144,165	144,098	144,151	144,037	144,129	21
81	144,537	144,554	144,513	144,544	144,477	144,530	144,416	144,508	21
82	144,916	144,933	144,892	144,923	144,856	144,909	144,795	144,887	21
83	150,849	150,866	150,825	150,856	150,789	150,842	150,728	150,820	22
84	151,229	151,245	151,204	151,235	151,168	151,221	151,107	151,199	22
85	151,608	151,625	151,583	151,614	151,547	151,600	151,486	151,578	22
86	151,987	152,004	151,963	151,994	151,926	151,979	151,865	151,957	22
87	157,920	157,937	157,896	157,926	157,859	157,912	157,797	157,889	23
88	158,299	158,316	158,275	158,306	158,238	158,291	158,176	158,268	23
89	158,679	158,695	158,654	158,685	158,617	158,670	158,555	158,647	23
90	159,058	159,075	159,033	159,064	158,996	159,049	158,934	159,026	23
91	164,991	165,007	164,966	164,997	164,929	164,982	164,867	164,959	24
92	165,370	165,387	165,345	165,376	165,308	165,361	165,246	165,338	24
93	165,749	165,766	165,724	165,755	165,687	165,740	165,625	165,717	24
94	166,129	166,145	166,104	166,134	166,066	166,119	166,004	166,096	24
95	172,061	172,078	172,037	172,067	171,999	172,052	171,937	172,029	25
96	172,441	172,457	172,416	172,446	172,378	172,431	172,316	172,408	25
97	172,820	172,837	172,795	172,826	172,757	172,810	172,695	172,787	25
98	173,199	173,216	173,174	173,205	173,137	173,189	173,074	173,166	25
99	179,132	179,149	179,107	179,138	179,069	179,122	179,006	179,099	26
100	179,511	179,528	179,486	179,517	179,448	179,501	179,385	179,478	26

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