INTERNATIONAL STANDARD

ISO 16463

Second edition
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Polycristalline diamond inserts, tipped — Dimensions, types

Plaquettes brasées en diamant polycristallin — Dimensions, types

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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 29, *Small Tools*, Subcommittee SC 9, *Tools with cutting edges made of hard cutting materials*.

This second edition cancels and replaces the first edition (ISO 16463:2004), of which it constitutes a minor revision.

Polycristalline diamond inserts, tipped — Dimensions, types

1 Scope

This International Standard applies to inserts with insert shapes in accordance with ISO 883 and ISO 6987, tipped with polycrystalline diamond (DP).

2 Normative references

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

ISO 513, *Classification and application of hard cutting materials for metal removal with defined cutting edges — Designation of the main groups and groups of application*

ISO 883, *Indexable hardmetal (carbide) inserts with rounded corners, without fixing hole — Dimensions*

ISO 1832, *Indexable inserts for cutting tools — Designation*

ISO 3365, *Indexable hardmetal (carbide) inserts with wiper edges, without fixing hole — Dimensions*

ISO 6987, *Indexable hard material inserts with rounded corners, with partly cylindrical fixing hole — Dimensions*

3 Insert shapes and design

3.1 Insert shapes

Triangular (T), square (S), rhombic 80° (C), 55° (D), and 35° (V) and trigon (W).

3.2 Normal clearance, α_n

Normal clearance 5° (B), 7° (C), 11° (P), and 20° (E).

3.3 Cutting edge corner

Inserts for turning with corner radius r_ε 0,2 mm, 0,4 mm, 0,8 mm, 1,2 mm, and 1,6 mm.

Inserts for milling with wiper edge.

NOTE The design of non-tipped corners is optional.

3.4 Tolerance class

Tolerance class in accordance with ISO 1832 shall be applied. In Tables 1 to 10, this position is shown with a dot (•).

3.5 Design of cutting edges

Any design shall be indicated in the designation (see ISO 1832).

3.6 Insert type

The styles of tipped cutting edges in accordance with ISO 1832 shall be applied.

4 Designation

4.1 General

The designation of inserts tipped with polycrystalline diamond (DP) is based on ISO 1832. The letter symbol for the cutting edge condition and the letter symbol for the insert type shall be indicated in the designation in each case.

Designations contained in 4.2 and 4.3 are examples of use of designations in accordance with ISO 1832.

4.2 Designation of a tipped insert for turning

Designation of a rhombic insert with included angle ε_r = 55° (D), normal clearance α_n = 7° (C), with tolerance class G, without chip breakers and with fixing hole (W), with side length l = 11,6 mm (11), thickness s = 3,97 mm (T3), corner radius r_ε = 0,8 mm (08), with sharp cutting edges (F), tipped — one sided — one corner (A), long (L), cutting material in accordance with ISO 513 (e.g. DP05):

Insert DCGW 11T308F — AL — DP05 — ...

NOTE DP05 is optional in accordance with ISO 1832, designation symbol 13.

4.3 Designation of a tipped insert for milling

Designation of a square insert (S) with normal clearance α_n = 11° (P), with tolerance class G, without chip breakers and with fixing hole (W), with side length l = 12,7 mm (12), thickness s = 4,76 mm (04), cutting edge angle κ_r = 75° (E), normal clearance at wiper edge α = 15° (D), right-hand type (R), tipped — one sided — one corner (A), long (L), cutting material in accordance with ISO 513 (e.g. DP05):

Insert SPGW 1204EDR — AL — DP05 — ...

NOTE DP05 is optional in accordance with ISO 1832, designation symbol 13.

5 Dimensions

5.1 Insert shape T with fixing hole (inserts for turning)

See Figure 1 and Table 1.

NOTE For the dimensions of l_1, see Table 11.

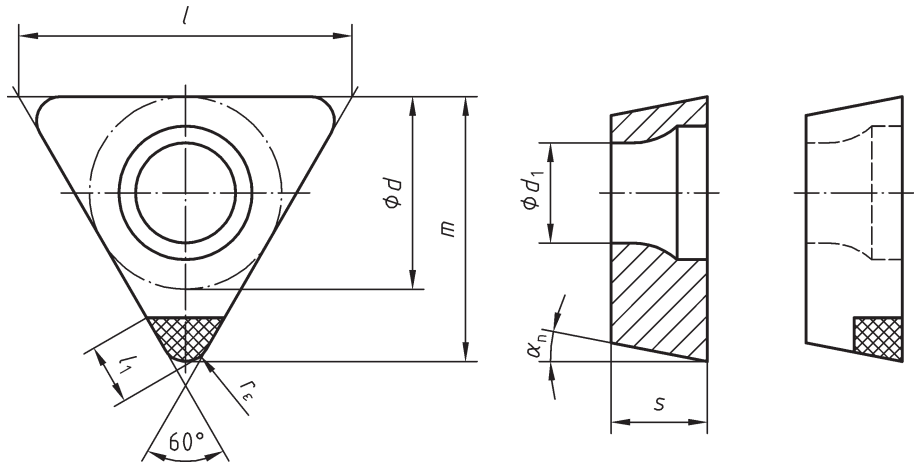


Figure 1

Table 1

Designation	d	d_1	l ≈	m	s	α_n	r_ε
TC•W 09 02 02F	5,56	2,5	9,63	8,137	2,38	7°	0,2
TC•W 09 02 04F	5,56	2,5	9,63	7,943	2,38	7°	0,4
TC•W 09 02 08F	5,56	2,5	9,63	7,541	2,38	7°	0,8
TC•W 11 02 02F	6,35	2,8	11,0	9,322	2,38	7°	0,2
TC•W 11 02 04F	6,35	2,8	11,0	9,128	2,38	7°	0,4
TC•W 11 02 08F	6,35	2,8	11,0	8,731	2,38	7°	0,8
TC•W 11 03 02F	6,35	2,8	11,0	9,327	3,18	7°	0,2
TC•W 11 03 04F	6,35	2,8	11,0	9,128	3,18	7°	0,4
TC•W 11 03 08F	6,35	2,8	11,0	8,731	3,18	7°	0,8
TC•W 16 T3 02F	9,525	4,4	16,5	14,084	3,97	7°	0,2
TC•W 16 T3 04F	9,525	4,4	16,5	13,891	3,97	7°	0,4
TC•W 16 T3 08F	9,525	4,4	16,5	13,494	3,97	7°	0,8
TC•W 16 T3 12F	9,525	4,4	16,5	13,097	3,97	7°	1,2
TC•W 16 T3 16F	9,525	4,4	16,5	12,700	3,97	7°	1,6
TC•W 22 04 04F	12,7	5,5	22,0	18,653	4,76	7°	0,4
TC•W 22 04 08F	12,7	5,5	22,0	18,256	4,76	7°	0,8
TC•W 22 04 12F	12,7	5,5	22,0	17,859	4,76	7°	1,2
TC•W 22 04 16F	12,7	5,5	22,0	17,462	4,76	7°	1,6
TP•W 09 02 02F	5,56	2,5	9,63	8,137	2,38	11°	0,2
TP•W 09 02 04F	5,56	2,5	9,63	7,943	2,38	11°	0,4
TP•W 09 02 08F	5,56	2,5	9,63	7,541	2,38	11°	0,8
TP•W 11 02 02F	6,35	2,8	11,0	9,322	2,38	11°	0,2
TP•W 11 02 04F	6,35	2,8	11,0	9,128	2,38	11°	0,4
TP•W 11 02 08F	6,35	2,8	11,0	9,322	2,38	11°	0,8
TP•W 11 03 02F	6,35	3,3	11,0	9,327	3,18	11°	0,2
TP•W 11 03 04F	6,35	3,3	11,0	9,128	3,18	11°	0,4

Table 1

Designation	d	d_1	$l \approx$	m	s	α_n	r_ε
TP•W 11 03 08F	6,35	3,3	11,0	8,731	3,18	11°	0,8
TP•W 13 03 02F	7,938	3,4	13,7	11,708	3,18	11°	0,2
TP•W 13 03 04F	7,938	3,4	13,7	11,509	3,18	11°	0,4
TP•W 13 03 08F	7,938	3,4	13,7	11,112	3,18	11°	0,8
TP•W 16 T3 04F	9,525	4,4	16,5	13,891	3,97	11°	0,4
TP•W 16 T3 08F	9,525	4,4	16,5	13,494	3,97	11°	0,8
TP•W 16 T3 12F	9,525	4,4	16,5	13,097	3,97	11°	1,2
TP•W 16 T3 16F	9,525	4,4	16,5	12,700	3,97	11°	1,6

5.2 Insert shape T without fixing hole (inserts for turning)

See Figure 2 and Table 2.

NOTE For the dimensions of l_1, see Table 11.

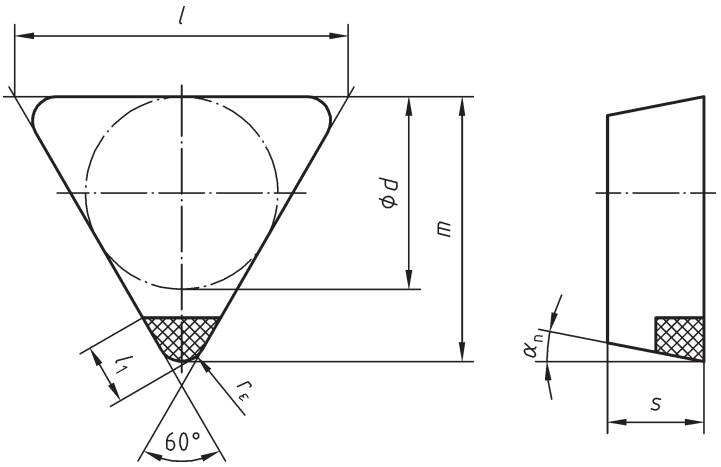


Figure 2

Table 2

Designation	d	$l \approx$	m	s	α_n	r_ε
TP•N 09 02 02F	5,556	9,62	8,136	2,38	11°	0,2
TP•N 09 02 04F	5,556	9,62	7,938	2,38	11°	0,4
TP•N 09 02 08F	5,556	9,62	7,541	2,38	11°	0,8
TP•N 11 03 02F	6,35	11,0	9,327	3,18	11°	0,2
TP•N 11 03 04F	6,35	11,0	9,128	3,18	11°	0,4
TP•N 11 03 08F	6,35	11,0	8,731	3,18	11°	0,8
TP•N 16 03 02F	9,525	16,5	14,089	3,18	11°	0,2
TP•N 16 03 04F	9,525	16,5	13,891	3,18	11°	0,4
TP•N 16 03 08F	9,525	16,5	13,494	3,18	11°	0,8

5.3 Insert shape S with fixing hole (inserts for turning)

See Figure 3 and Table 3.

NOTE For the dimensions of l_1, see Table 11.

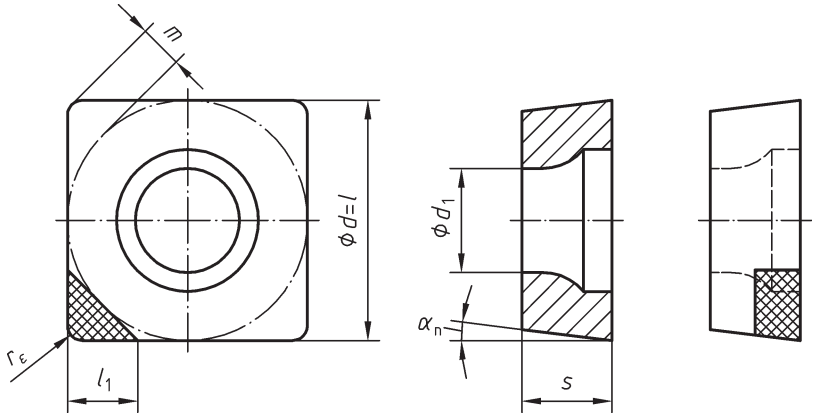


Figure 3

Table 3

Designation	d	d_1	$l \approx$	m	s	α_n	r_ε
SC•W 09 T3 04F	9,525	4,4	9,525	1,808	3,97	7°	0,4
SC•W 09 T3 08F	9,525	4,4	9,525	1,644	3,97	7°	0,8
SC•W 09 T3 12F	9,525	4,4	9,525	1,479	3,97	7°	1,2
SC•W 12 04 04F	12,7	5,5	12,7	2,466	4,76	7°	0,4
SC•W 12 04 08F	12,7	5,5	12,7	2,301	4,76	7°	0,8
SC•W 12 04 12F	12,7	5,5	12,7	2,137	4,76	7°	1,2
SC•W 12 04 16F	12,7	5,5	12,7	1,973	4,76	7°	1,6
SP•W 09 T3 02F	9,525	4,4	9,525	1,889	3,97	11°	0,2
SP•W 09 T3 04F	9,525	4,4	9,525	1,808	3,97	11°	0,4
SP•W 09 T3 08F	9,525	4,4	9,525	1,644	3,97	11°	0,8
SP•W 09 T3 12F	9,525	4,4	9,525	1,479	3,97	11°	1,2
SP•W 12 04 04F	12,7	5,5	12,7	2,466	4,76	11°	0,4
SP•W 12 04 08F	12,7	5,5	12,7	2,301	4,76	11°	0,8
SP•W 12 04 12F	12,7	5,5	12,7	2,137	4,76	11°	1,2
SP•W 12 04 16F	12,7	5,5	12,7	1,973	4,76	11°	1,6

5.4 Insert shape S without fixing hole (inserts for turning)

See Figure 4 and Table 4.

NOTE For the dimensions of l_1, see Table 11.

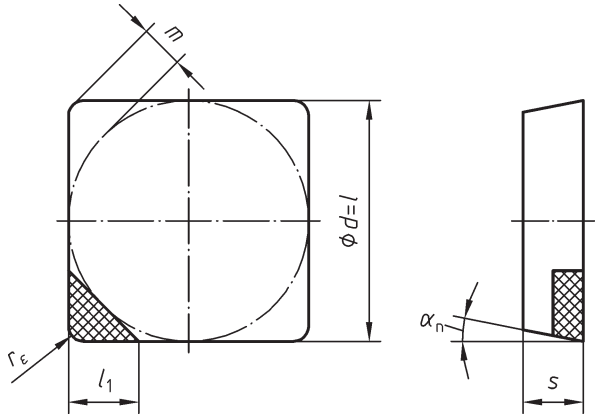


Figure 4

Table 4

Designation	d	$l \approx$	m	s	α_n	r_ε
SP•N 09 03 02F	9,525	9,5	1,890	3,18	11°	0,2
SP•N 09 03 04F	9,525	9,5	1,808	3,18	11°	0,4
SP•N 09 03 08F	9,525	9,5	1,644	3,18	11°	0,8
SP•N 12 03 02F	12,7	12,7	2,548	3,18	11°	0,2
SP•N 12 03 04F	12,7	12,7	2,466	3,18	11°	0,4
SP•N 12 03 08F	12,7	12,7	2,301	3,18	11°	0,8

5.5 Insert shape C with fixing hole (inserts for turning)

See Figure 5 and Table 5.

NOTE For the dimensions of l_1, see Table 11.

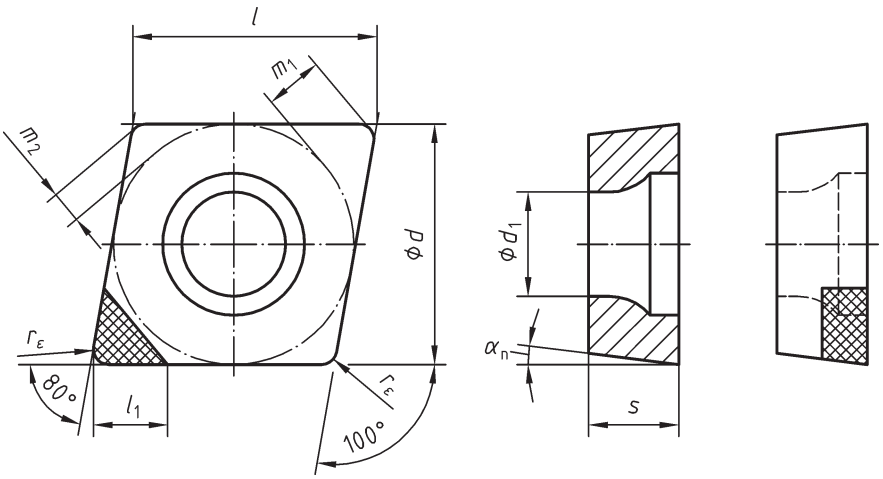


Figure 5

Table 5

Designation	d	d_1	$l \approx$	m_1	m_2	s	α_n	r_ε
CC•W 05 02 02F	5,56	2,5	5,64	1,432	0,787	2,38	7°	0,2
CC•W 05 02 04F	5,56	2,5	5,64	1,324	0,728	2,38	7°	0,4
CC•W 06 02 02F	6,35	2,8	6,45	1,652	0,908	2,38	7°	0,2
CC•W 06 02 04F	6,35	2,8	6,45	1,544	0,848	2,38	7°	0,4
CC•W 06 02 08F	6,35	2,8	6,45	1,323	0,727	2,38	7°	0,8
CC•W 08 03 02F	7,938	3,4	8,06	2,093	1,150	3,18	7°	0,2
CC•W 08 03 04F	7,938	3,4	8,06	1,986	1,091	3,18	7°	0,4
CC•W 08 03 08F	7,938	3,4	8,06	1,764	0,970	3,18	7°	0,8
CC•W 08 03 12F	7,938	3,4	8,06	1,544	0,848	3,18	7°	1,2
CC•W 09 T3 04F	9,525	4,4	9,67	2,426	1,333	3,97	7°	0,4
CC•W 09 T3 08F	9,525	4,4	9,67	2,206	1,212	3,97	7°	0,8
CC•W 09 T3 12F	9,525	4,4	9,67	1,985	1,091	3,97	7°	1,2
CC•W 12 04 04F	12,7	5,5	12,9	3,308	1,818	4,76	7°	0,4
CC•W 12 04 08F	12,7	5,5	12,9	3,088	1,697	4,76	7°	0,8
CC•W 12 04 12F	12,7	5,5	12,9	2,867	1,576	4,76	7°	1,2
CC•W 12 04 16F	12,7	5,5	12,9	2,647	1,455	4,76	7°	1,6
CP•W 05 02 02F	5,56	2,5	5,64	1,432	0,787	2,38	11°	0,2
CP•W 05 02 04F	5,56	2,5	5,64	1,324	0,728	2,38	11°	0,4
CP•W 06 02 02F	6,35	2,8	6,45	1,652	0,908	2,38	11°	0,2
CP•W 06 02 04F	6,35	2,8	6,45	1,544	0,848	2,38	11°	0,4
CP•W 06 02 08F	6,35	2,8	6,45	1,323	0,727	2,38	11°	0,8
CP•W 08 03 02F	7,938	3,4	8,06	2,093	1,150	3,18	11°	0,2
CP•W 08 03 04F	7,938	3,4	8,06	1,986	1,091	3,18	11°	0,4
CP•W 08 03 08F	7,938	3,4	8,06	1,764	0,970	3,18	11°	0,8
CP•W 08 03 12F	7,938	3,4	8,06	1,544	0,848	3,18	11°	1,2
CP•W 09 03 02F	9,525	4,4	9,67	2,534	1,392	3,18	11°	0,2
CP•W 09 03 04F	9,525	4,4	9,67	2,426	1,333	3,18	11°	0,4
CP•W 09 03 08F	9,525	4,4	9,67	2,206	1,212	3,18	11°	0,8
CP•W 09 03 12F	9,525	4,4	9,67	1,985	1,091	3,18	11°	1,2
CP•W 09 T3 02F	9,525	4,4	9,67	2,426	1,333	3,97	11°	0,2
CP•W 09 T3 04F	9,525	4,4	9,67	2,426	1,333	3,97	11°	0,4
CP•W 09 T3 08F	9,525	4,4	9,67	2,206	1,212	3,97	11°	0,8
CP•W 09 T3 12F	9,525	4,4	9,67	1,985	1,091	3,97	11°	1,2
CP•W 12 04 04F	12,7	5,5	12,9	3,088	1,818	4,76	11°	0,4
CP•W 12 04 08F	12,7	5,5	12,9	3,308	1,697	4,76	11°	0,8
CP•W 12 04 12F	12,7	5,5	12,9	2,867	1,576	4,76	11°	1,2
CP•W 12 04 16F	12,7	5,5	12,9	2,647	1,455	4,76	11°	1,6

5.6 Insert shape D with fixing hole (inserts for turning)

See Figure 6 and Table 6.

NOTE For the dimensions of l_1, see Table 11.

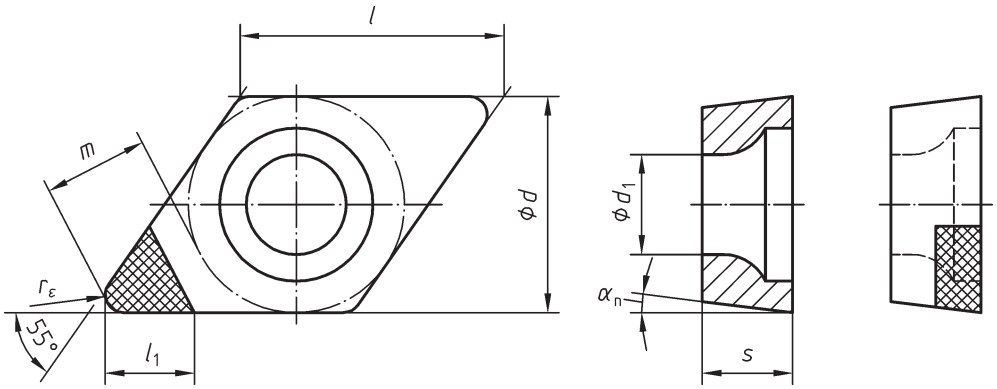


Figure 6

Table 6

Designation	d	d_1	$l \approx$	m	s	α_n	r_ε
DC•W 07 02 02F	6,35	2,8	7,75	3,464	2,38	7°	0,2
DC•W 07 02 04F	6,35	2,8	7,75	3,238	2,38	7°	0,4
DC•W 07 02 08F	6,35	2,8	7,75	2,776	2,38	7°	0,8
DC•W 11 T3 02F	9,525	4,4	11,6	5,320	3,97	7°	0,2
DC•W 11 T3 04F	9,525	4,4	11,6	5,089	3,97	7°	0,4
DC•W 11 T3 08F	9,525	4,4	11,6	4,626	3,97	7°	0,8
DC•W 11 T3 12F	9,525	4,4	11,6	4,164	3,97	7°	1,2
DP•W 07 02 02F	6,35	2,8	7,75	3,464	2,38	11°	0,2
DP•W 07 02 04F	6,35	2,8	7,75	3,238	2,38	11°	0,4
DP•W 11 T3 04F	9,525	4,4	11,6	5,089	3,97	11°	0,4
DP•W 11 T3 08F	9,525	4,4	11,6	4,626	3,97	11°	0,8

5.7 Insert shape V with fixing hole (inserts for turning)

See Figure 7 and Table 7.

NOTE For the dimensions of l_1, see Table 11.

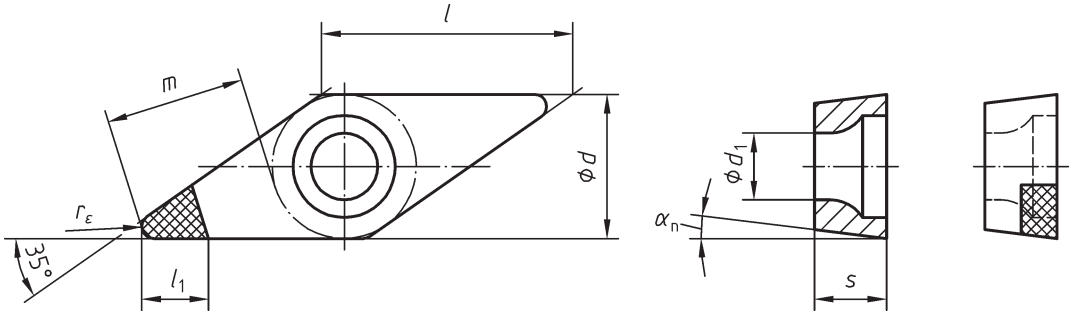


Figure 7

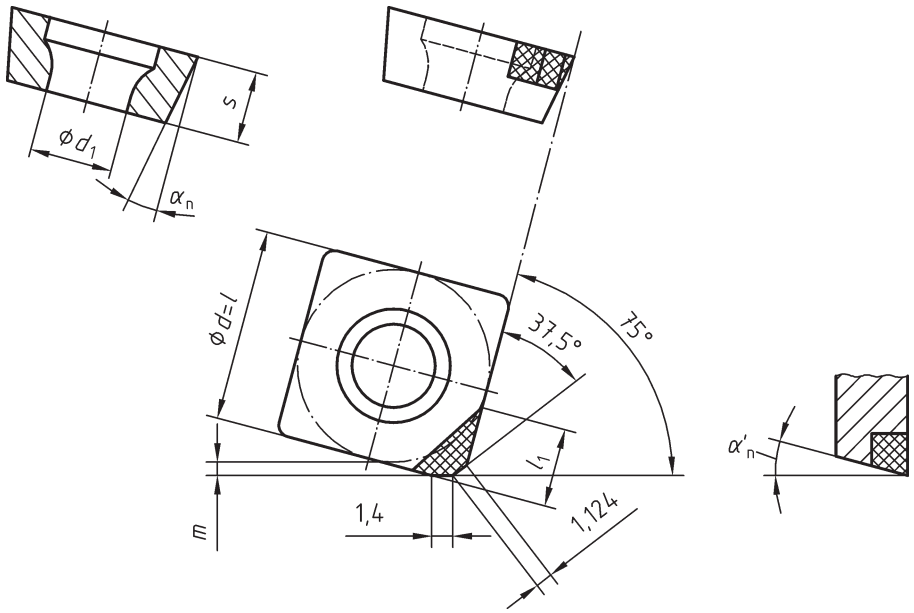
Table 7

Designation	d	d_1	$l \approx$	m	s	α_n	r_ε
VB•W 16 04 02F	9,525	4,4	16,6	10,603	4,76	5°	0,2
VB•W 16 04 04F	9,525	4,4	16,6	10,152	4,76	5°	0,4
VB•W 16 04 08F	9,525	4,4	16,6	9,229	4,76	5°	0,8
VB•W 16 04 12F	9,525	4,4	16,6	8,306	4,76	5°	1,2
VC•W 11 03 02F	6,35	2,8	11,1	6,911	3,18	7°	0,2
VC•W 11 03 04F	6,35	2,8	11,1	6,460	3,18	7°	0,4
VC•W 11 03 08F	6,35	2,8	11,1	5,537	3,18	7°	0,8
VC•W 16 04 02F	9,525	4,4	16,6	10,603	4,76	7°	0,2
VC•W 16 04 04F	9,525	4,4	16,6	10,154	4,76	7°	0,4
VC•W 16 04 08F	9,525	4,4	16,6	9,231	4,76	7°	0,8
VC•W 16 04 12F	9,525	4,4	16,6	8,308	4,76	7°	1,2

5.8 Insert shape S with fixing hole (inserts for milling)

See Figure 8 and Table 8.

NOTE For the dimensions of l_1, see Table 11.



NOTE Right-hand type is shown in the figure (R).

Figure 8

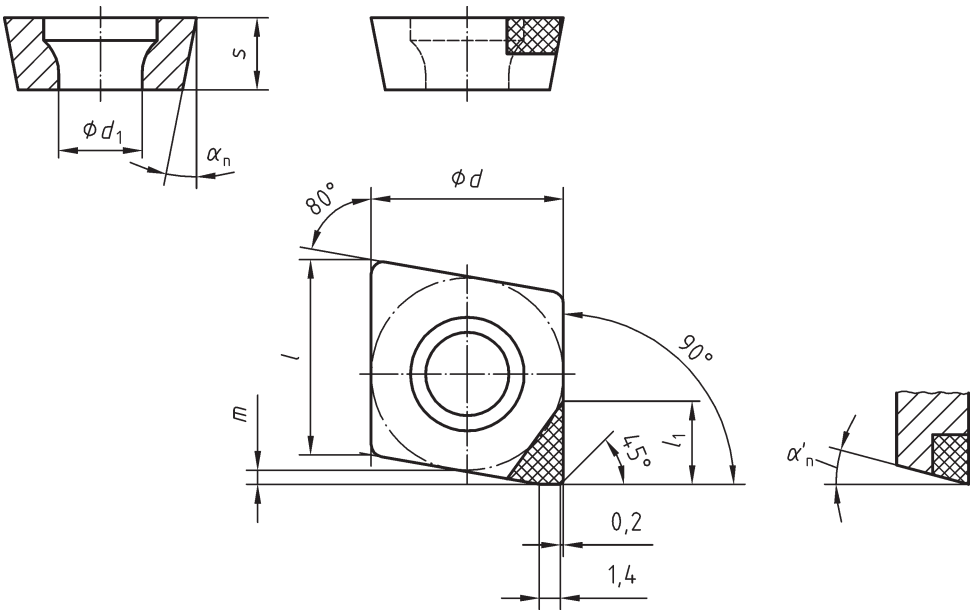
Table 8

Designation	d	d_1	l ≈	m	s	α_n	α'_n
SE•W 09 T3 EER	9,525	4,4	9,525	0,543	3,97	20°	20°
SE•W 09 T3 EEL	9,525	4,4	9,525	0,543	3,97	20°	20°
SP•W 12 04 EDR	12,7	5,5	12,7	0,900	4,76	11°	15°
SP•W 12 04 EDL	12,7	5,5	12,7	0,900	4,76	11°	15°

5.9 Insert shape C with fixing hole (inserts for milling)

See Figure 9 and Table 9.

NOTE For the dimensions of l_1, see Table 11.



NOTE Right-hand type shown in the figure (R).

Figure 9

Table 9

Designation	d	d_1	l ≈	m	s	α_n	α'_n
CE•W 09 T3 PEL	9,525	4,4	9,67	0,631	3,97	20°	20°
CE•W 09 T3 PER	9,525	4,4	9,67	0,631	3,97	20°	20°
CP•W 12 04 PDL	12,7	5,5	12,9	0,936	4,76	11°	15°
CP•W 12 04 PDR	12,7	5,5	12,9	0,936	4,76	11°	15°

5.10 Insert shape W with fixing hole (inserts for turning)

See Figure 10 and Table 10.

NOTE For the dimensions of l_1, see Table 11.

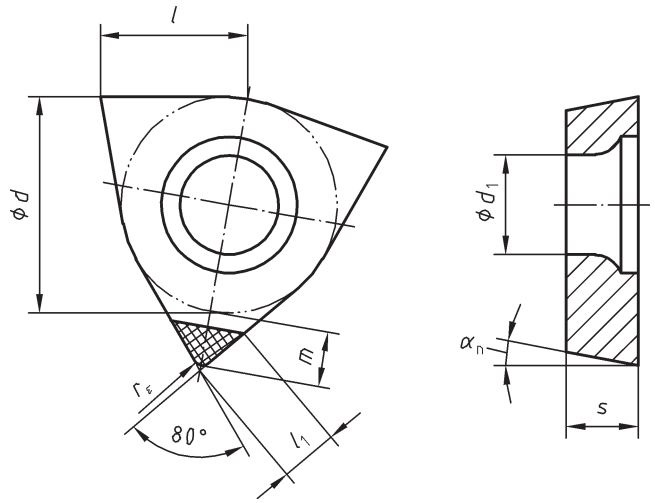


Figure 10

Table 10

Designation	d	d_1	$l \approx$	m	s	α_n	r_ε
WC•W040202F	6,35	2,8	4,3	1,655	2,38	7°	0,2
WC•W040204F	6,35	2,8	4,3	1,543	2,38	7°	0,4
WC•W06T304F	9,525	4,4	6,5	2,426	3,97	7°	0,4
WC•W06T308F	9,525	4,4	6,5	2,203	3,97	7°	0,8
WP•W040201F	6,35	2,8	4,3	1,710	2,38	11°	0,1
WP•W040202F	6,35	2,8	4,3	1,654	2,38	11°	0,2
WP•W040204F	6,35	2,8	4,3	1,543	2,38	11°	0,4
WP•W060302F	9,525	4,4	6,5	2,537	3,18	11°	0,2
WP•W060304F	9,525	4,4	6,5	2,426	3,18	11°	0,4

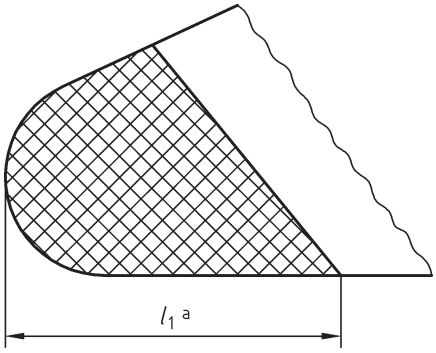
6 Cutting edge length, l_1, of tipped inserts

6.1 General

l_1 is defined as the length along the major cutting edge from the end of the tip to the furthest point perpendicular to the major cutting edge.

6.2 Inserts with radius

See Figure 11.



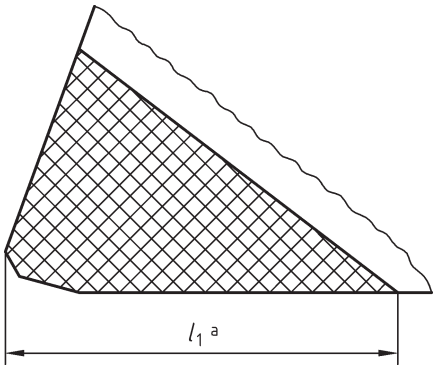
Key

a For the dimensions of l_1, see Table 11.

Figure 11

6.3 Inserts with wiper edge

See Figure 12.



Key

a For the dimensions of l_1, see Table 11.

Figure 12

Table 11

Cutting edge length l_1 min	
short	long
0,8	3,0

7 Base material, cutting material

Base material is selected at the manufacturer's option or upon agreement.

Cutting edges made of DP are in accordance with ISO 513.

8 Measurements

Measurements are taken in accordance with ISO 3365 and ISO 6987.

9 Marking

Indexable inserts shall be visibly and durably marked with

— the symbol for the corner radius r_ε ,

— the group of chip removal and group of application in accordance with ISO 513 or the cutting material grade, and

— the name or trademark of the manufacturer.

Additional marking is at the manufacturer's option or upon agreement. Different marking is upon agreement.

If there is no sufficient place on the indexable insert to indicate the group of chip removal and group of application and the name of the manufacturer, the insert can be marked with the manufacturer's cutting material grade instead. However, in such cases, the group of chip removal and group of application has to be indicated clearly and visibly on the packaging.

Annex A
(informative)

Relationship between designations in ISO 16463 and ISO/TS 13399-2

For the relationship between designations in this International Standard and preferred symbols according to ISO/TS 13399-2, see Table A.1.

Table A.1 — Relationship between designations in ISO 16463 and ISO/TS 13399-2

Symbol in ISO 16463	Reference in ISO 16463	Property name in ISO/TS 13399-2	Symbol in ISO/TS 13399-2	Reference in ISO/TS 13399-2
α_n	3.2, 4.2, 4.3	clearance angle major	AN	**BSU: 71DD70308D3E3**
r_ε	3.3, 4.2	corner radius	RE	**BSU: 71DD6C8ACA503**
—	3.4, 4.2, 4.3	tolerance class insert	TC	**BSU: 71CE7AA215888**
—	3.6	tipped cutting edge code	TCE	**BSU: 71CE7AA1E3D75**
ε_r	4.2	insert included angle	EPSR	**BSU: 71CE7A96BC122**
l	4.2, 4.3	cutting edge length	L	**BSU: 71DD6C95DA49B**
s	4.2, 4.3	insert thickness	S	**BSU: 71CE7A9F5308C**
κ_r	4.3	cutting edge angle major	KRINS	**BSU: 71CE7AA02C1CC**
α *and* α'_n	4.3, Figures 6, 7, Tables 6, 7	clearance angle wiper edge	AS	**BSU: 71DD7031A98E9**
—	4.3	insert hand	IH	**BSU: 71CE7A979F41C**
d	Figures 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, Tables 1, 2, 3, 4, 5, 6, 7, 8, 9, 10	inscribed circle diameter	IC	**BSU: 71CE7A96D9F7D**
d_1	Figures 1, 3, 5, 6, 7, 8, 9, 10, Tables 1, 3, 5, 6, 7, 8, 9, 10	fixing hole diameter	D1	**BSU: 71CE7A968C8FE**
m	Figures 1, 2, 3, 4, 6, 7, 8, 9, 10, Tables 1, 2, 3, 4, 6, 7, 8, 9, 10	m-dimension	M	**BSU: 71CE7AA0972DB**
m_1	Figure 5, Table 5	m-dimension	M	**BSU: 71CE7AA0972DB**
m_2	Figure 5, Table 5	m2-dimension	M2	**BSU: 71CE7AA05C819**
l_1	Figures 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	cutting edge effective length	LE	**BSU: 71DD6C958C615**
37,5° and *45°*	Figures 8, 9	corner chamfer angle	KCH	**BSU: 71DD6C88F9210**

Table A.1 — *(continued)*

Symbol in ISO 16462	Reference in ISO 16462	Property name in ISO/TS 13399-2	Symbol in ISO/ TS 13399-2	Reference in ISO/ TS 13399-2
1,4	Figures 8, 9	wiper edge length	BS	**BSU: 71CE7AA249F88**
1,124	Figure 8	corner chamfer length	BCH	**BSU: 71DD6C895C25B**
0,2	Figure 9	corner chamfer width	CHW	**BSU: 71DD6C89A120F**

ICS 25.100.01

Price based on 15 pages