INTERNATIONAL STANDARD

ISO 3467

Second edition
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Machine taper pin reamers with Morse taper shanks

Alésoirs à machine pour trous de goupilles coniques, à queue cône Morse

Reference number
ISO 3467:2016(E)

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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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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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, *Cutting tools with defined cutting edges, cutting items*.

This second edition cancels and replaces the first edition (ISO 3467:1975), of which it constitutes a minor revision.

Machine taper pin reamers with Morse taper shanks

1 Scope

This International Standard lays down the dimensions of machine taper pin reamers with Morse taper shanks.

It covers only metric dimensions, which are the only recommended dimensions in the future for these types of reamers.

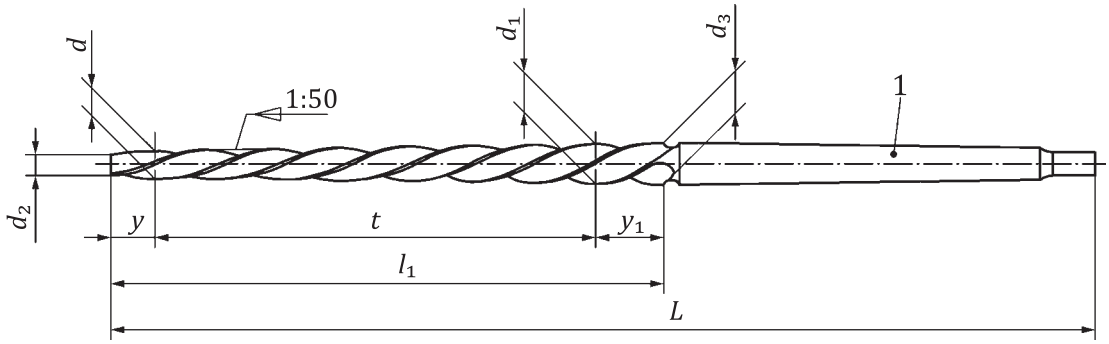
The reamers have been designed to produce holes for taper pins manufactured to ISO 2339, in the range 5 mm to 50 mm nominal diameter.

Unless otherwise stated, these reamers will be right-hand cutting.

The flutes may be straight or left-hand spiral, at the option of the manufacturer.

Hand taper pin reamers are dealt with in ISO 3465, and machine taper pin reamers with parallel shanks in ISO 3466.

2 Dimensions



Key

1 Morse taper

Figure 1

Table 1

Dimensions in millimetres

d nominal	d_1	t	y	y_1	d_2	d_3	l_1	L	**Morse taper no.**
5	6,2	60	5	8	4,9	6,36	73	155	1
6	7,8	90	5	10	5,9	8,00	105	187	1
8	10,6	130	5	10	7,9	10,80	145	227	1
10	13,2	160	5	10	9,9	13,40	175	257	1
12	15,6	180	10	20	11,8	16,00	210	315	2
16	20,0	200	10	20	15,8	20,40	230	335	2
20	24,4	220	10	20	19,8	24,80	250	377	3
25	29,8	240	15	45	24,7	30,70	300	427	3
30	35,2	260	15	45	29,7	36,10	320	475	4
40	45,6	280	15	45	39,7	46,50	340	495	4
50	56,0	300	15	45	49,7	56,90	360	550	5

Annex A
(informative)

Relationship between designations in this International Standard and ISO 13399

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

Table A.1 — Relationship between designations in this International Standard and ISO 13399 series

Symbol in ISO 3467	Reference in ISO 3467	Property name in ISO 13399	Symbol in ISO 13399	Reference in ISO 13399
d	Figure 1 and Table 1	cutting diameter	DC	ISO/TS 13399-3 71CE7A96D9F7D
d_1	Figure 1 and Table 1	taper diameter largest	DTAX	ISO/TS 13399-3 726E3AA6C4A1C
d_2	Figure 1 and Table 1	interference cutting diameter	DCINTF	ISO/TS 13399-3 726E2FCC0EC78
d_3	Figure 1 and Table 1	cutting diameter maximum	DCX	ISO/TS 13399-3 71D084656CE32
L	Figure 1 and Table 1	overall length	OAL	ISO/TS 13399-3 71D078EB7C086
l_1	Figure 1 and Table 1	usable length	LU	ISO/TS 13399-3 71EBB33490FDA
t	Figure 1 and Table 1	taper length	—	—
y	Figure 1 and Table 1	distance reference point PK	LDC	ISO/TS 13399-3 726E3AAAF99A3
y_1	Figure 1 and Table 1	—	—	—
Morse taper no.	Table 1	connection size code machine side	CZCMS	ISO/TS 13399-3 727C2BCCC5596
1:50	Figure 1	taper gradient	TG	ISO/TS 13399-3 71CEAEC02FEBD

Bibliography

[1] ISO 286, *Geometrical product specifications (GPS) — ISO code system for tolerances on linear sizes*

[2] ISO 296, *Machine tools — Self-holding tapers for tool shanks*

[3] ISO 2339, *Taper pins, unhardened*

[4] ISO 3465, *Hand taper pin reamers*

[5] ISO 3466, *Machine taper pin reamers with Morse taper shanks*

[6] ISO/TS 13399-3:2014, *Cutting tool data representation and exchange — Part 3: Reference dictionary for tool items*

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