

ISO/TC 29/SC 9

Secretariat: DIN

Voting begins  
on: **2015-10-16**

Voting terminates  
on: **2015-12-16**

## Machine taper pin reamers with Morse taper shanks

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

**ITEH STANDARD PREVIEW**  
(standards.iteh.ai)  
Full standard:  
<https://standards.iteh.ai/catalog/standards/sist/2f6b2a42-2dd4-427e-8b10-02292615acba/iso-3467-2016>

RECIPIENTS OF THIS DRAFT ARE INVITED TO SUBMIT, WITH THEIR COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMENTATION.

IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.



Reference number  
ISO/FDIS 3467:2015(E)

**iTeh STANDARD PREVIEW**  
(standards.iteh.ai)  
Full standard:  
<https://standards.iteh.ai/catalog/standards/sist/2f6b2a42-2dd4-427e-8b10-02292615acba/iso-3467-2016>



## **COPYRIGHT PROTECTED DOCUMENT**

© ISO 2015, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Ch. de Blandonnet 8 • CP 401  
CH-1214 Vernier, Geneva, Switzerland  
Tel. +41 22 749 01 11  
Fax +41 22 749 09 47  
[copyright@iso.org](mailto:copyright@iso.org)  
[www.iso.org](http://www.iso.org)

# Contents

	Page
Foreword .....	iv
1 Scope .....	1
2 Dimensions .....	1
Annex A (informative) Relationship between designations in this International Standard and ISO 13399 .....	3
Bibliography .....	4

**iTeh STANDARD PREVIEW**  
 (standards.iteh.ai)  
 Full standard:  
<https://standards.iteh.ai/catalog/standards/sist/2f6b2a42-2dd4-427e-8b10-02292615acba/iso-3467-2016>

## 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.

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](http://www.iso.org/directives)).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

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.

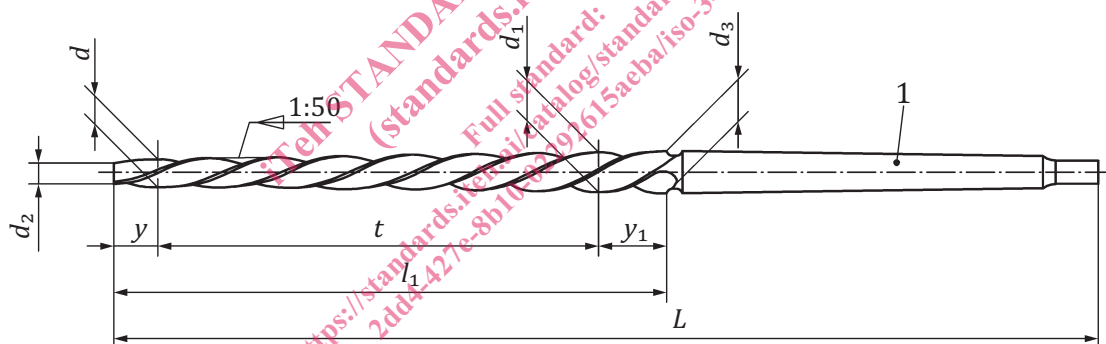
The reamers have been designed to produce holes for taper pins manufactured to ISO 2339, in the range 5 mm to 50 mm nominal diameter.

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
$D$	<a href="#">Figure 1</a> and <a href="#">Table 1</a>	cutting diameter	DC	ISO/TS 13399-3 71CE7A96D9F7D
$d_1$	<a href="#">Figure 1</a> and <a href="#">Table 1</a>	taper diameter largest	DTAX	ISO/TS 13399-3 726E3AA6C4A1C
$d_2$	<a href="#">Figure 1</a> and <a href="#">Table 1</a>	interference cut- ting diameter	DCINTF	ISO/TS 13399-3 726E2FCC0EC78
$d_3$	<a href="#">Figure 1</a> and <a href="#">Table 1</a>	cutting diameter maximum	DCX	ISO/TS 13399-3 71D084656CE32
$L$	<a href="#">Figure 1</a> and <a href="#">Table 1</a>	overall length	OAL	ISO/TS 13399-3 71D078EB7C086
$l_1$	<a href="#">Figure 1</a> and <a href="#">Table 1</a>	depth of cut maxi- mum	APMX	ISO/TS 13399-3 71D07576C0558
$l_2$	<a href="#">Figure 1</a> and <a href="#">Table 1</a>	shank length	LS	ISO/TS 13399-3 71CF298870946
$T$	<a href="#">Figure 1</a> and <a href="#">Table 1</a>	taper length	TPL	ISO/TS 13399-3 726E422B45872
$Y$	<a href="#">Figure 1</a> and <a href="#">Table 1</a>	distance reference point PK	LDC	ISO/TS 13399-3 726E3AAAF99A3
$y_1$	<a href="#">Figure 1</a> and <a href="#">Table 1</a>	—	—	—
Morse taper No.	<a href="#">Table 1</a>	connection size code machine side	CZCMS	ISO/TS 13399-3 727C2BCCC5596

## 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*

**iTeh STANDARD PREVIEW**  
(standards.iteh.ai)

Full standard:  
<https://standards.iteh.ai/catalog/standards/sist/2f6b2a42-2dd4-427e-8b10-02292615acba/iso-3467-2016>



**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

Full standard:  
<https://standards.iteh.ai/catalog/standards/sist/2f6b2a42-2dd4-427e-8b10-02292615acba/iso-3467-2016>