

---

---

**Side and face milling (slotting) cutters  
with indexable inserts — Dimensions**

*Fraises trois tailles à plaquettes amovibles — Dimensions*

STANDARDSISO.COM : Click to view the full PDF of ISO 6986:2013



STANDARDSISO.COM : Click to view the full PDF of ISO 6986:2013



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2013

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  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

# Contents

	Page
Foreword .....	iv
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Dimensions</b> .....	<b>1</b>
<b>Annex A (informative) Relationship between designations in this International Standard and ISO 13399 (all parts)</b> .....	<b>3</b>
<b>Bibliography</b> .....	<b>4</b>

STANDARDSISO.COM : Click to view the full PDF of ISO 6986:2013

## 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. [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. [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.

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 6986:1983), of which it constitutes a minor revision.

STANDARDSISO.COM : Click to view the full PDF of ISO 6986:2013

# Side and face milling (slotting) cutters with indexable inserts — Dimensions

## 1 Scope

This International Standard specifies the dimensions of side and face milling (slotting) cutters with indexable inserts.

The shape and dimensions of the inserts are left to the discretion of the manufacturer.

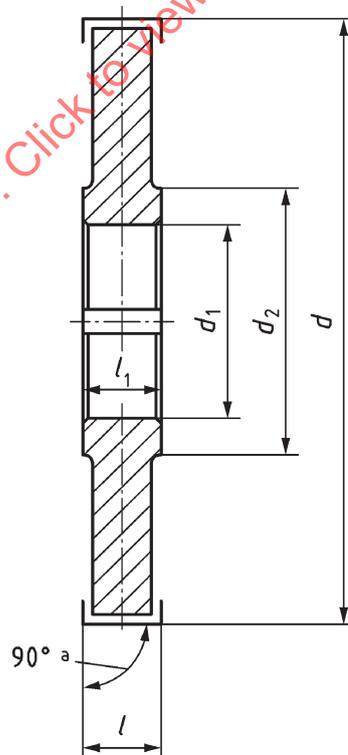
## 2 Normative references

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 240, *Milling cutters — Interchangeability dimensions for cutter arbors or cutter mandrels*

## 3 Dimensions

See Figure 1 and Table 1.



a The value of  $90^\circ$  is the nominal cutting edge angle of the insert.

Figure 1 — Dimensions

**Table 1 — Dimensions**

Dimensions in millimetres

$d$ js16	$d_1^b$ H7	$d_2$ min.	$l$	$l_1$ $\begin{matrix} +2 \\ 0 \end{matrix}$
80	27	41	10	10
100	32	47	10	10
			12	12
125	40	55	12	12
			16	16
160	40	55	16	16
			20	20
200	50	69	20	20
			25	25
<sup>b</sup> The dimensions of the bore and key shall be in accordance with ISO 240.				

STANDARDSISO.COM : Click to view the full PDF of ISO 6986:2013

## Annex A (informative)

### Relationship between designations in this International Standard and ISO 13399 (all parts)

For the relationship between designations in this International Standard and preferred symbols according to the ISO 13399 series, see [Table A.1](#).

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

Symbol in this International Standard (ISO 6986)	Reference in this International Standard (ISO 6986)	Property name in the ISO 13399 series	Symbol in the ISO 13399 series	Reference in the ISO 13399 series
$d$	<a href="#">Figure 1</a> and <a href="#">Table 1</a>	Cutting diameter	DC	ISO/TS 13399-3 71D084653E57F
$d_1$	<a href="#">Figure 1</a> and <a href="#">Table 1</a>	Connection diameter	DCON	ISO/TS 13399-3 71EBDBF5060E6
$d_2$	<a href="#">Figure 1</a> and <a href="#">Table 1</a>	Hub diameter	DHUB	ISO/TS 13399-3 71D087D3B17B0
$l$	<a href="#">Figure 1</a> and <a href="#">Table 1</a>	Cutting width	CW	ISO/TS 13399-3 71CEAEBE2B825
$l_1$	<a href="#">Figure 1</a> and <a href="#">Table 1</a>	Hub thickness	THUB	ISO/TS 13399-3 71D087D3F5E07
$90^\circ$	<a href="#">Figure 1</a>	Tool cutting edge angle	KAPR	ISO/TS 13399-3 71D078F683C9B

## Bibliography

- [1] ISO 13399 (all parts), *Cutting tool data representation and exchange*

STANDARDSISO.COM : Click to view the full PDF of ISO 6986:2013