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**End mills with indexable inserts —**

Part 1:

**End mills with flatted cylindrical shank**

*Fraises en bout à plaquettes amovibles —*

*Partie 1: Fraises à queue cylindrique à méplat*

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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.

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 6262-1:1982), of which it constitutes a minor revision.

ISO 6262 consists of the following parts, under the general title *End mills with indexable inserts*:

- *Part 1: End mills with flatted cylindrical shank*
- *Part 2: End mills with Morse taper shank*

# End mills with indexable inserts —

## Part 1: End mills with flatted cylindrical shank

### 1 Scope

This part of ISO 6262 specifies the dimensions of end mills with indexable inserts and flatted parallel shank according to ISO 3338-2.

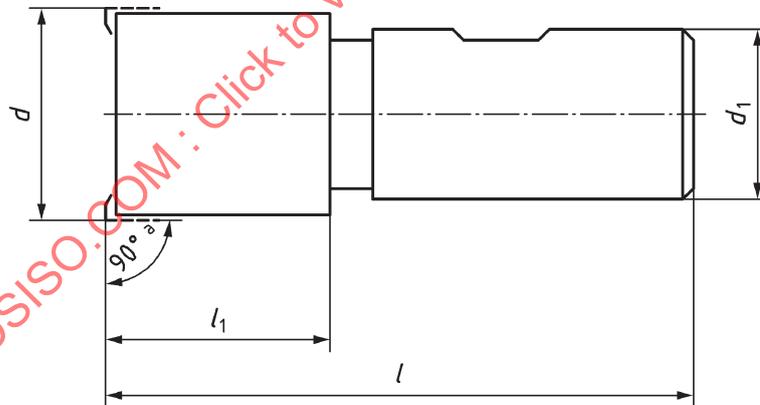
The form and dimensions of the inserts are left to the discretion of the manufacturer.

### 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable to 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 3338-2, *Cylindrical shanks for milling cutters — Part 2: Dimensional characteristics of flatted cylindrical shanks*

### 3 Dimensions



- a The value of  $90^\circ$  shall be the nominal value of the cutting edge angle of the insert. The effective angle obtained on the workpiece depends on the geometry and the diameter of the milling cutter together with the cutting depth.

Figure 1 — Dimensions

Table 1 — Dimensions

Dimensions in millimetres

$d$ $j_{s14}$	$d_1^a$ $h6$	$l_1$ $max$	$l$
16	16	25	75
20	20	30	82
25	25	38	96
32	32	38	100
40	32	48	110
50	32	48	110

<sup>a</sup> The shank dimensions and configuration shall be in accordance with ISO 3338-2.

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## Annex A (informative)

### Relationship between designations in this part of ISO 6262 and the ISO 13399 series

For the relationship between designations in this part of ISO 6262 and preferred symbols according to ISO 13399 (all parts), see [Table A.1](#).

**Table A.1 — Relationship between designations in this part of ISO 6262 and the ISO 13399 series**

Symbol in ISO 6262-1 (this part of ISO 6262)	Reference in ISO 6262-1 (this part of ISO 6262)	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
$l_1$	<a href="#">Figure 1</a> and <a href="#">Table 1</a>	Head length	LH	ISO/TS 13399-3, 71D07574A61E8
$l$	<a href="#">Figure 1</a> and <a href="#">Table 1</a>	Overall length	OAL	ISO/TS 13399-3, 71D078EB7C086
90°	<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*

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