
Cylindrical cutters with plain bore and key drive — Metric series

*Fraises cylindriques 1 taille, à surfacer, à alésage lisse, à entraînement
par clavette — Série métrique*

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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 (see 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).

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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 World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 29, *Small tools*, Subcommittee SC 2, *Holding tools, adaptive items and interfaces*.

This second edition cancels and replaces the first edition (ISO 2584:1972), of which it constitutes a minor revision, notably with the addition of [Annex A](#), which gives the relationship between the designations of this International Standard and the ISO 13399 series.

Cylindrical cutters with plain bore and key drive — Metric series

1 Scope

This International Standard specifies the dimensions of metric series cylindrical cutters with plain bore and key drive, intended for fitting to cutter arbors.

It is applicable to solid cutters and also to interlocking cutters.

Solid cutters are made either with straight teeth or with helicoidal teeth angled to the right or left; interlocking cutters are always made with straight or helicoidal teeth angled to the left and right alternately.

The range of outside diameters of these cutters is taken from ISO 523.

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 <https://standards.iteh.ai/catalog/standards/sist/7d1a9528-4e49-46e7-9a6e-116be6c1caf4/iso-2584-2016>

3.1 Solid cutters

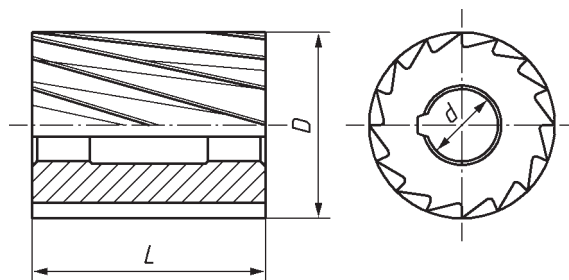


Figure 1 — Solid cutters

Table 1

Dimensions in millimetres

D Js16	d^a H7	L						
		40	50	63	70	80	100	125
50	22	X		X		X		
63	27		X		X			
80	32			X			X	
100	40				X			X

^a The bore and key way dimensions shall be in accordance with the metric series of ISO 240.

3.2 Interlocking cutters

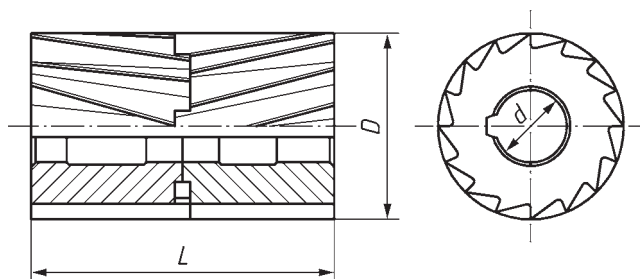


Figure 2 — Interlocking cutters

Table 2

Dimensions in millimetres

<i>D</i>	<i>d</i> ^a	<i>L</i>					
		80	100	125	160	200	250
J _s 16	H7						
80	32	X		X			
100	40		X		X		
125	50			X		X	
160	60				X		X

^a The bore and key way dimensions shall be in accordance with the metric series of ISO 240.

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Annex A (informative)

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

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

**Table A.1 — Relationship between designations in this International Standard and ISO 13399
(all parts)**

Symbol in ISO 2584	Reference in ISO 2584	Property name in ISO 13399 (all parts)	Symbol in ISO 13399 (all parts)	Reference in ISO 13399 (all parts)
<i>D</i>	Figures 1 and 2 Tables 1 and 2	cutting diameter	DC	71D084653E57F
<i>d</i>	Figures 1 and 2 Tables 1 and 2	connection diameter machine side	DCONMS	71EBDBF5060E6
<i>d</i> H7	Tables 1 and 2	tolerance class connection diameter machine side	TCDCONMS	72719B2BD8041
<i>L</i>	Figures 1 and 2 Tables 1 and 2	overall length	OAL	71D078EB7C086

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 ISO 2584:2016

Bibliography

- [1] ISO 523,¹⁾ *Milling cutters — Recommended range of outside diameters*
- [2] ISO 13399 (all parts), *Cutting tool data representation and exchange*

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1) Withdrawn.

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