

BS ISO 6262-1:2013



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End mills with indexable inserts

Part 1: End mills with flatted cylindrical shank

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National foreword

This British Standard is the UK implementation of ISO 6262-1:2013. It supersedes BS4193-9:1982 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee MTE/18, Tools tips and inserts for cutting applications.

A list of organizations represented on this committee can be obtained on request to its secretary.

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BS ISO 6262-1:2013

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6262-1

Second edition
2013-09-01

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

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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.

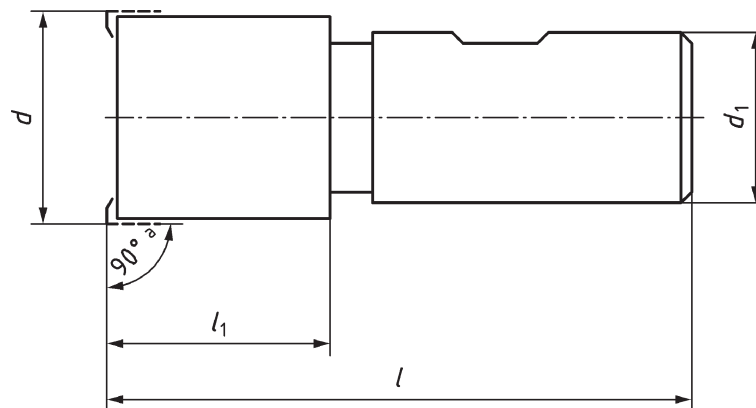
The form and dimensions of the inserts are left to the discretion of the manufacturer.

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° 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

^a The shank dimensions and configuration shall be in accordance with ISO 3338-2.

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	Figure 1 and Table 1	Cutting diameter	DC	ISO/TS 13399-3, 71D084653E57F
d_1	Figure 1 and Table 1	Connection diameter	DCON	ISO/TS 13399-3, 71EBDBF5060E6
l_1	Figure 1 and Table 1	Head length	LH	ISO/TS 13399-3, 71D07574A61E8
l	Figure 1 and Table 1	Overall length	OAL	ISO/TS 13399-3, 71D078EB7C086
90°	Figure 1	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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