

INTERNATIONAL
STANDARD

ISO
10911

First edition
1994-11-15

**Solid hardmetal end mills with parallel
shank — Dimensions**

iTeh STANDARD PREVIEW
Fraises cylindriques deux tailles monobloc en métaux-durs — Dimensions
(standards.iteh.ai)

ISO 10911:1994

<https://standards.iteh.ai/catalog/standards/sist/88352ec5-233d-4fd6-a6c0-c579837b6048/iso-10911-1994>



Reference number
ISO 10911:1994(E)

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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 10911 was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 9, *Tools with cutting edges made of hard cutting materials*.

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Solid hardmetal end mills with parallel shank — Dimensions

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1 Scope

This International Standard specifies the dimensions of solid hardmetal end mills with parallel shank.

The designation of these end mills will be the subject of a future International Standard.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3338-1:1993, *Parallel shanks for milling cutters*
ISO 10911:1994 — *Part 1: Dimensional characteristics of plain parallel shanks.*

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3 Dimensions

Dimensions of solid hardmetal end mills with plain parallel shank are specified in figure 1 and table 1.

NOTE 1 The dimensions given in table 1 also apply to solid hardmetal end mills with flatted parallel shanks in accordance with ISO 3338-2:1985, *Parallel shanks for milling cutters — Part 2: Dimensional characteristics of flatted parallel shanks*

4 Centre cutting

End mills with two flutes shall be centre-cutting (slot drills).

End mills with three flutes or more may be centre-cutting.

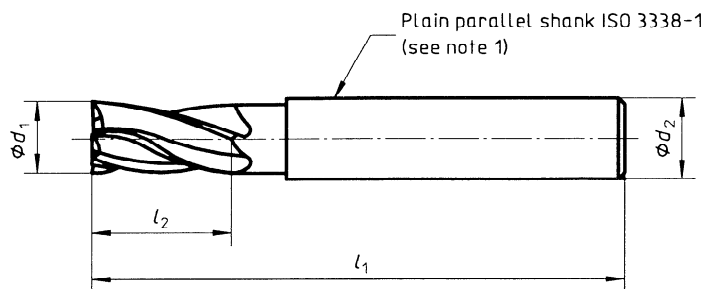


Figure 1

Table 1

Dimensions in millimetres

Cutting diameter d_1 h10	Shank diameter d_2 1)	Overall length l_1		Cutting length l_2									
		nom.	tol.	nom.	tol.								
1	3	38	+2 0	3	+1 0								
	4	43		+1 0									
1,5	3	38				4	+1 0						
	4	43				+1 0							
2	3	38						7	+1 0				
	4	43						+1 0					
2,5	3	38								8	+1 0		
	4	43								+1 0			
3	3	38										8	+1 0
	6	57										+1 0	
3,5	4	43			10								
	6	57		+1 0									
4	4	43			11		+1,5 0						
	6	57			+1,5 0								
5	5	47				13			+1,5 0				
	6	57				+1,5 0							
6	6	57						13			+1,5 0		
7	8	63						16		+1,5 0			
8	8	63						19					+1,5 0
9	10	72						19				+1,5 0	
10	10	72	22					+1,5 0					
12	12	76	22	+1,5 0									
		83	26				+2 0						
14	14	83	26		+2 0								
16	16	89	32						+2 0				
18	18	92	32			+2 0							
20	20	101	38								+2 0		
										+3 0			
													+3 0
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							+3 0						
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						+3 0							

1) For the tolerance, see ISO 3338-1.

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Descriptors: tools, cutting tools, milling cutters, end mills, dimensions, parallel shanks.

Price based on 2 pages
