
**End mills with brazed helical
hardmetal tips —**

Part 2:
**Dimensions of end mills with 7/24
taper shank**

*Fraises cylindriques deux tailles à plaquettes hélicoïdales en métaux-
durs, brasées —*

Partie 2: Dimensions des fraises à queue cône 7/24

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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).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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 WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#).

The committee responsible for this document is ISO/TC 29, *Small tools*, Subcommittee SC 9, *Tools with defined cutting edges, cutting items*.

This second edition cancels and replaces the first edition (ISO 10145-2:1993), which constitutes a minor revision.

ISO 10145 consists of the following parts, under the general title *End mills with brazed helical hardmetal tips*:

- *Part 1: Dimensions of end mills with parallel shank*
- *Part 2: Dimensions of end mills with 7/24 taper shank*

End mills with brazed helical hardmetal tips —

Part 2:

Dimensions of end mills with 7/24 taper shank

1 Scope

This part of ISO 10145 specifies the general dimensions of end mills with brazed helical hardmetal tips, with 7/24 taper shank.

The following two types of end mills with 7/24 taper shank are specified:

- end mills with 7/24 taper shank for manual changing;
- end mills with 7/24 taper shank for automatic tool changers.

This part of ISO 10145 applies to right-hand and left-hand end mills, irrespective of helix angle and number of flutes.

2 Normative references

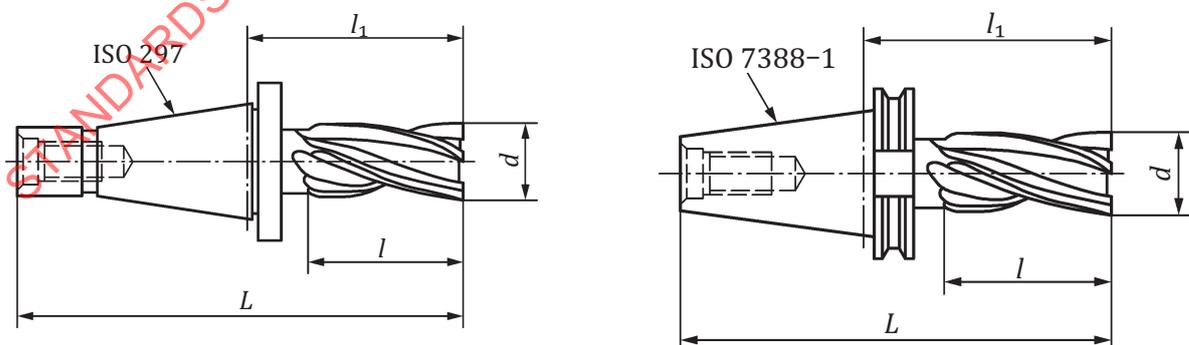
The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 297, *7/24 tapers for tool shanks for manual changing*

ISO 7388-1, *Tool shanks with 7/24 taper for automatic tool changers — Part 1: Dimensions and designation of shanks of forms A, AD, AF, U, UD and UF*

3 Dimensions

The dimensions for end mills as shown in [Figure 1](#) are specified in [Table 1](#).



Type 1: With 7/24 taper shank for manual changing, in accordance with ISO 297

Type 2: With 7/24 taper shank for automatic tool changers, in accordance with ISO 7388-1

Figure 1 — Dimensions for end mills

Table 1 — Dimensions for end mills

Dimensions in millimetres

<i>d</i>	<i>l</i>	Type 1				Type 2			
		Taper no. 40		Taper no. 50		Taper no. 40		Taper no. 50	
		<i>l</i> ₁	<i>L</i>						
k12	$+3/0$	$+3/0$		$+3/0$		$+3/0$		$+3/0$	
32	40	84	177,4	—	—	91	159,4	—	—
	50	94	187,4	—	—	101	169,4	—	—
40	50	94	187,4	103	229,8	101	169,4	107	208,75
	63	107	200,4	116	242,8	114	182,4	120	221,75
50	50	94	187,4	103	229,8	101	169,4	107	208,75
	80	124	217,4	133	259,8	131	199,4	137	238,75
63	63	—	—	116	242,8	—	—	120	221,75
	100	—	—	153	279,8	—	—	157	258,75

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