INTERNATIONAL STANDARD

ISO 9766

Second edition 2012-06-15

Drills with indexable inserts — Cylindrical shanks with a parallel flat

Forets à plaquettes amovibles — Queues cylindriques à méplat

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ISO 9766:2012(E)

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

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.

ISO 9766 was prepared by Technical Committee 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 9766:1990), of which it constitutes a minor revision.

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Drills with indexable inserts — Cylindrical shanks with a parallel flat

1 Scope

This International Standard specifies the dimensions necessary for the interchangeability of cylindrical shanks with a parallel flat for drills with indexable inserts, which can be made of carbide and ceramic materials according to ISO 513 or HSS according ISO 11054.

2 Normative references

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

ISO 286-2, Geometrical product specifications (GPS) — ISO code system for tolerances on linear sizes — Part 2: Tables of standard tolerance classes and limit deviations for holes and shafts

3 Dimensions iTeh STANDARD PREVIEW

See Figure 1 and Table 1.

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4 Specifications

ISO 9766:2012

https://standards.iteh.ai/catalog/standards/sist/80ec5430-eb95-4fcb-b56e-A hole shall be provided in order to axially feed coolant-through the drill.

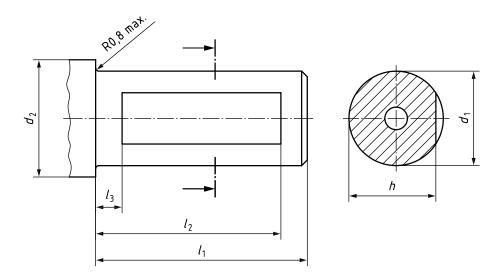


Figure 1 — Example of cylindrical shank with a parallel flat for drills with indexable inserts

Table 1 — Dimensions

Dimensions in millimetres

d ₁	d₂ ^a	h	l ₁	l ₂	l ₃	
h6	min	h13	±1	min.	max.	
20	25	18,2	50	43	7	
25	31	23	56	49	7	
32	38	30	60	53	7	
40	46	38	70	63	7	
50	56	47,8	80	73	7	
^a Tolerances on d_2 are in accordance with ISO 286-2.						

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Annex A (informative)

Relationship between designations in this International Standard and the ISO 13399 series

For the relationship between designations in this International Standard and preferred symbols according to the ISO 13399 series, see Table A.1.

Table A.1 — Relationship between designations in this International Standard and the ISO 13399 series

Symbol in this International Standard (ISO 9766)	Reference in this International Standard (ISO 9766)	Property name in the ISO 13399 series	Symbol in the ISO 13399 series	Reference in the ISO 13399 series
d_1	Figure 1	Shank diameter	DMM	ISO/TS 13399-3 and ISO/TS 13399-4
	iteh ST.	ANDARD PF	REVIEW	71CF29862B277
d_2	Figure 1 (St	an Flange diametereh.	ai) DF	ISO/TS 13399-3 and ISO/TS 13399-5
	Table 1			71EC61D8A1771
		<u>ISO 9766:2012</u>		
h	https:!94tendards.iteh.a	/catalog/staspecifiedt/80ec5	430-eNot specifiede-	Not specified
	Table 1	of4cdddd8b2f/iso-9766-201	2	
l_1	Figure 1	Shank length	LS	ISO/TS 13399-3 and
	Table 1			ISO/TS 13399-4
				71CF298870946
l_2	Figure 1	Not specified	Not specified	Not specified
	Table 1			
<i>l</i> ₃	Figure 1	Not specified	Not specified	Not specified
	Table 1			

Bibliography

- [1] ISO 513, Classification and application of hard cutting materials for metal removal with defined cutting edges Designation of the main groups and groups of application
- [2] ISO 11054, Cutting tools Designation of high-speed steel groups
- [3] ISO 13399 (all parts), Cutting tool data representation and exchange

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