

Hardmetal insert tooling —

Part 7: Single point tool holders for turning and copying for indexable inserts — Dimensions

ICS 25.100.01

National foreword

This British Standard reproduces verbatim ISO 5610:1998 and implements it as the UK national standard. It supersedes BS 4193-7:1997 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee MTE/18, Tool tips and inserts for cutting applications, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled "International Standards Correspondence Index", or by using the "Find" facility of the BSI Standards Electronic Catalogue.

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Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, page ii, pages 1 to 13 and a back cover.

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Amendments issued since publication

Amd. No.	Date	Comments
10812 Corrigendum No. 1	January 2000	Indicated by a sideline

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INTERNATIONAL STANDARD

**ISO
5610**

Fifth edition
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Single-point tool holders for turning and copying, for indexable inserts — Dimensions

Porte-plaquette de tournage et de copiage active unique — Dimensions



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 5610 was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 9, *Tools with cutting edges made of hard cutting materials*.

This fifth edition cancels and replaces the fourth edition (ISO 5610 :1995), subclause 4.4.1 and the first sentence of subclause 4.4.4 of which have been modified. In addition clause 5 (table 5) has been augmented by inclusion of tool holder, style L for W-shape inserts.

Annex A of this International Standard is for information only.

Descriptors: tools, turning tools, cutting tools, lathe tools, inserts, tool holders, dimensions.

Single-point tool holders for turning and copying, for indexable inserts — Dimensions

1 Scope

This International Standard specifies the general dimensions of turning and copying single-point tool holders for indexable inserts, and specifies preferred tool holders (see clause 5).

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 agreement 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 3002-1 :1982, *Basic quantities in cutting and grinding — Part 1 : Geometry of the active part of cutting tools — General terms, reference systems, tool and working angles, chip breakers*.

3 Remark

The designation of turning and copying tool holders is dealt with in ISO 5608; however, it should be noted that for preferred tool holders in accordance with clause 5, a dash replaces the letter symbol identifying tool length.

4 Dimensions

4.1 Shank

See figure 1 and table 1.

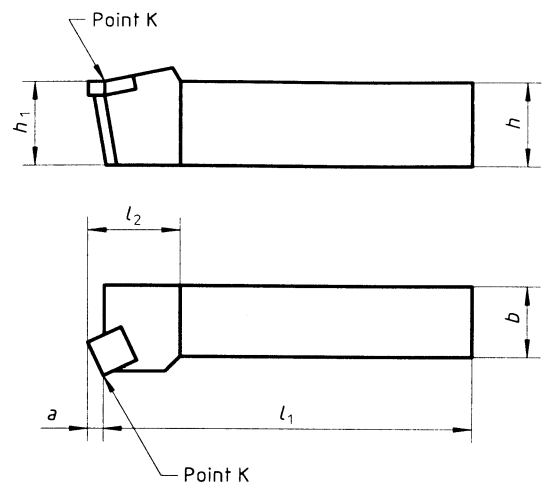


Figure 1

Table 1

Dimensions in millimetres										
h h13		8	10	12	16	20	25	32	40	50
b h13	$b = h$	8	10	12	16	20	25	32	40	50
	$b = 0,8 h$		8	10	12	16	20	25	32	40
l_1 k16	long tool holders	60	70	80	100	125	150	170	200	250
	short tool holders	40	50	60	70	80	100	125	150	—
h_1 js14		$h_1 = h$								

4.2 Head length l_2

See figure 1 and table 2.

The head lengths given in table 2 do not apply to tool holders with rhombic indexable inserts shapes D and V (see ISO 5608).

Table 2

Dimensions in millimetres	
Diameter of the inscribed circle of the insert	l_2 max.
6,35	25
9,525	32
12,7	36
15,875	40
19,05	45
25,4	50