

Hardmetal insert tooling —

Part 6: Specification for the designation of turning and copying tool holders and cartridges for indexable (throwaway) inserts

ICS 25.060.20; 25.100.01

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee MTE/18, Tools, tips and inserts for cutting applications, upon which the following bodies were represented:

- British Engineers Cutting Tools Association
- British Hardmetal Association
- Co-opted members

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National foreword

This British Standard has been prepared by Technical Committee MTE/18 and is identical with ISO 5608:1995 *Turning and copying tool holders and cartridges for indexable inserts — Designation* published by the International Organization for Standardization (ISO). It supersedes BS 4193-6:1990 which is withdrawn.

Cross-references. The Technical Committee has reviewed the provisions of ISO 5610:1995 and ISO 5611:1995 to which normative reference is made in the text, and has decided that they are acceptable for use in conjunction with this standard.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 10, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope

This International Standard establishes a code for the designation of turning and copying tool holders and cartridges with a rectangular shank having a standardized dimension f (see ISO 5610 and ISO 5611), intended for indexable inserts, thus simplifying orders and specifications for such tools.

The designation of boring bars (tool holders with cylindrical shank) is given in ISO 6261.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were 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 editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 5610:1995, *Single-point tool holders for turning and copying, for indexable inserts — Dimensions*.

ISO 5611:1995, *Cartridges, type A, for indexable inserts — Dimensions*.

3 Explanation of the designation code

The designation code comprises ten symbols for the designation of dimensions and other characteristics of the tool and the insert, of which the first nine symbols shall be used in any designation. The last symbol may be used when necessary.

In addition to the standardized designation [symbols in positions (1) to (10)], a supplementary symbol consisting of a maximum of three letters and/or numbers may be added by the manufacturer for a better description of his products, on condition that this symbol is separated from the standardized designation by a dash and that it does not contain letters specified for position (10).

No addition to or extension of the code specified in this International Standard shall be made without consultation with Technical Committee ISO/TC 29 and its agreement. Rather than adding symbols not provided for in this system, it is preferable to add to the designation conforming with this International Standard all necessary explanations in detailed sketches or specifications.

The meaning of the nine compulsory symbols and one optional symbol constituting the code is as follows:

- | | | |
|---|---|--------------------|
| (1) Letter symbol identifying the method of holding the insert (see 4.1) | } | Compulsory symbols |
| (2) Letter symbol identifying insert shape (see 4.2) | | |
| (3) Letter symbol identifying tool style (see 4.3) | | |
| (4) Letter symbol identifying insert normal clearance (see 4.4) | | |
| (5) Letter symbol identifying hand of tool (see 4.5) | | |
| (6) Number symbol identifying tool height (shank height of tool holders and height of cutting edge) (see 4.6) | | |
| (7) Number symbol identifying tool holder shank width or, for cartridges, letter C followed by a letter symbol identifying the cartridge type (see 4.7) | | |
| (8) Letter symbol identifying tool length (see 4.8) | | |
| (9) Number symbol identifying indexable insert size (see 4.9) | | |
| (10) Letter symbol indicating special tolerances (see clause 5) | | Optical symbol |

NOTE 1 The codes (2), (4) and (9) are in accordance with ISO 1832.

Example

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
C	T	G	N	R	32	25	M	16	Q