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## Hexalobular internal driving feature for bolts and screws

*Empreinte à six lobes internes pour vis*

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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](http://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](http://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 2, *Fasteners*, Subcommittee SC 11, *Fasteners with metric external thread*.

This third edition cancels and replaces the second edition (ISO 10664:2005), which has been technically revised with the following changes:

- several sizes of the driving feature have been added with respective values in [Tables 1 to 5](#).

# Hexalobular internal driving feature for bolts and screws

## 1 Scope

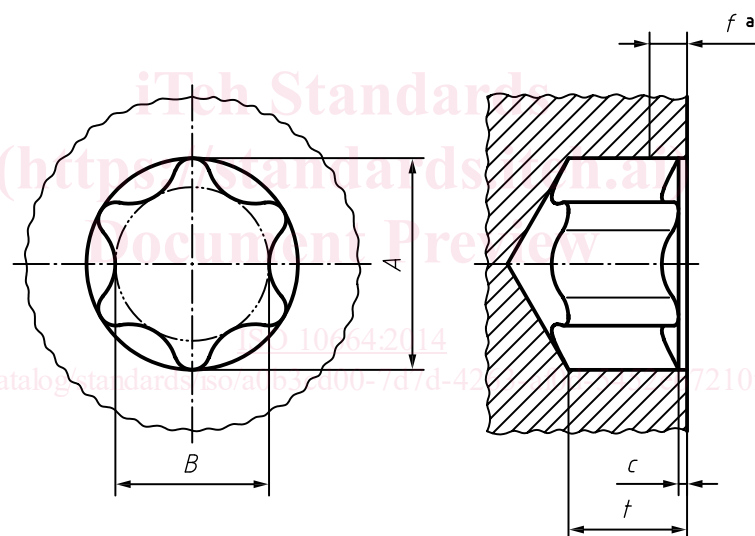
This International Standard specifies the shape and basic dimensions of the hexalobular internal driving feature for bolts and screws, including the gauging method.

The curvature of the contour of the hexalobular internal driving feature is defined by the gauges specified in [Tables 3, 4, and 5](#). Additional information which can be used when drawing the contour is given in [Annex A](#).

The intent of this International Standard is to provide the details necessary for inspection of the hexalobular driving feature. It is not suitable for, nor intended to be used as, a manufacturing standard.

## 2 Basic dimensions

See [Figure 1](#) and [Table 1](#).



Counterbore:  $c \leq 0,13$  mm up to socket no. 15

$c \leq 0,25$  mm over socket no. 15

Penetration depth,  $t$ : see relevant product standard.

<sup>a</sup> See [Table 2](#).

NOTE The contour of the bottom of the socket beyond the gauge is at the option of the manufacturer.

**Figure 1 — Basic dimensions**

Table 1 — Basic dimensions

Dimensions in millimetres

Hexalobular socket no.	Nominal dimensions <sup>a</sup>	
	A	B
1	0,9	0,6
2	1,0	0,7
3	1,2	0,85
4	1,35	1,0
5	1,5	1,1
6	1,75	1,27
7	2,1	1,5
8	2,4	1,75
9	2,6	1,9
10	2,8	2,05
15	3,35	2,4
20	3,95	2,85
25	4,5	3,25
27	5,1	3,68
30	5,6	4,05
40	6,75	4,85
45	7,93	5,64
50	8,95	6,45
55	11,35	8,05
60	13,45	9,6
70	15,7	11,2
80	17,75	12,8
90	20,2	14,4
100	22,4	16

<sup>a</sup> The curvature of the contour of the hexalobular internal driving feature is defined by the gauges specified in Tables 3, 4, and 5.

### 3 Gauging

#### 3.1 Principle

The hexalobular internal driving feature shall allow the GO gauge (see 3.2) to enter freely to the penetration depth,  $t$ , as specified in the relevant product standards.

The NO GO gauges (see 3.3.1 and 3.3.2) shall not enter the hexalobular internal driving feature to a depth greater than the fallaway allowance specified in Table 2.