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BS ISO 12164-4:2014



BSI Standards Publication

Hollow taper interface with flange contact surface

Part 4: Dimensions of receivers for
stationary tools

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The UK participation in its preparation was entrusted to Technical Committee MTE/18, Tools tips and inserts for cutting applications.

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

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Hollow taper interface with flange contact surface —

Part 4: Dimensions of receivers for stationary tools

Interfaces à cône creux-face —

Partie 4: Dimensions des nez de broches pour outils non rotatifs



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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
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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*.

This second edition cancels and replaces the first edition (ISO 12164-4:2008), [Figure 1](#) of which has been technically revised.

ISO 12164 consists of the following parts, under the general title *Hollow taper interface with flange contact surface*:

- *Part 1: Shanks — Dimensions*
- *Part 2: Receivers — Dimensions*
- *Part 3: Dimensions of shanks for stationary tools*
- *Part 4: Dimensions of receivers for stationary tools*

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Hollow taper interface with flange contact surface —

Part 4:

Dimensions of receivers for stationary tools

1 Scope

This part of ISO 12164 specifies dimensions for receivers with taper and flange contact surfaces for hollow taper shanks in accordance with ISO 12164-3 to be applied to machine tools (e.g. turning machines, turning-mill machines). A range of sizes is specified.

This part of ISO 12164 specifies the receiver of type T. It is for automatic tool exchange and manual clamping, which is achieved via holes in both the receiver and the tool shank.

The torque is transmitted via the tail end of the shank through keys as well as friction.

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 1101, *Geometrical product specifications (GPS) — Geometrical tolerancing — Tolerances of form, orientation, location and run-out*

ISO 2768-1, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

ISO 3040, *Geometrical product specifications (GPS) — Dimensioning and tolerancing — Cones*

3 Dimensions

3.1 General

Dimensions of receivers for hollow taper shanks with flange contact surface for stationary tools, type T, are specified in [Figure 1](#), [Table 1](#), and [Annex A](#). Details not specified in [Figures 1](#) shall be chosen expediently. Tolerancing of form, orientation, location, and run-out is in accordance with ISO 1101. Dimensioning and tolerancing of cones are in accordance with ISO 3040. Tolerances not specified shall be of tolerance class «m» in accordance with ISO 2768-1.

3.2 Receiver for hollow taper shank, type T

The dimensions of receiver for hollow taper shanks, type T, shall be in conformance with [Figure 1](#) and [Table 1](#).