



**International
Standard**

ISO 12164-4

**Hollow taper interface with flange
contact surface —**

**Part 4:
Receivers of types T and U for hollow
taper shanks of types T, TA and U**

Interfaces à cône creux-face —

*Partie 4: Nez de broches de types T et U pour queues de types T,
TA et U*

**Third edition
2023-10**

**Corrected version
2024-09**

[ISO 12164-4:2023](https://standards.iteh.ai/catalog/standards/iso/00d0a790-3e5c-4bdf-9718-ab47105d195e/iso-12164-4-2023)

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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 document 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).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 9, *Tools with defined cutting edges, holding tools, cutting items, adaptive items and interfaces*.

This third edition cancels and replaces the second edition (ISO 12164-4:2014), which has been technically revised.

The main changes are as follows:

- new HSK-types added;
- for HSK-types T, U and new HSK-type TA;
- some editorial changes.

A list of all parts of the ISO 12164 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

This corrected version of ISO 12164-4:2023 incorporates the following corrections:

- in [5.2](#) the minimum hardness value, 50 HRC, has been changed to 60 HRC;
- in [Table 1](#) the value for d_2 at nominal size 25 has been changed from 18,898 to 18,998.

Hollow taper interface with flange contact surface —

Part 4:

Receivers of types T and U for hollow taper shanks of types T, TA and U

1 Scope

This document specifies dimensions for receivers with taper and flange contact surfaces for hollow taper shanks (HSK) according to ISO 12164-3 to be applied to machine tools (turning and combinations of turning and milling machines).

This document specifies two types of receivers:

- type T for automatic tool change;
- type U for manual tool change only, via radial holes in both the receiver and the tool shank.

NOTE 1 The receivers of types T and U fit the HSK shanks T, TA and U (according to ISO 12164-3). The receivers also fit the HSK shanks A, AB, C and CB according to ISO 12164-1.

NOTE 2 HSK types A, AB, C, CB, T and TA can also be changed manually.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 2768-1, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- EC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

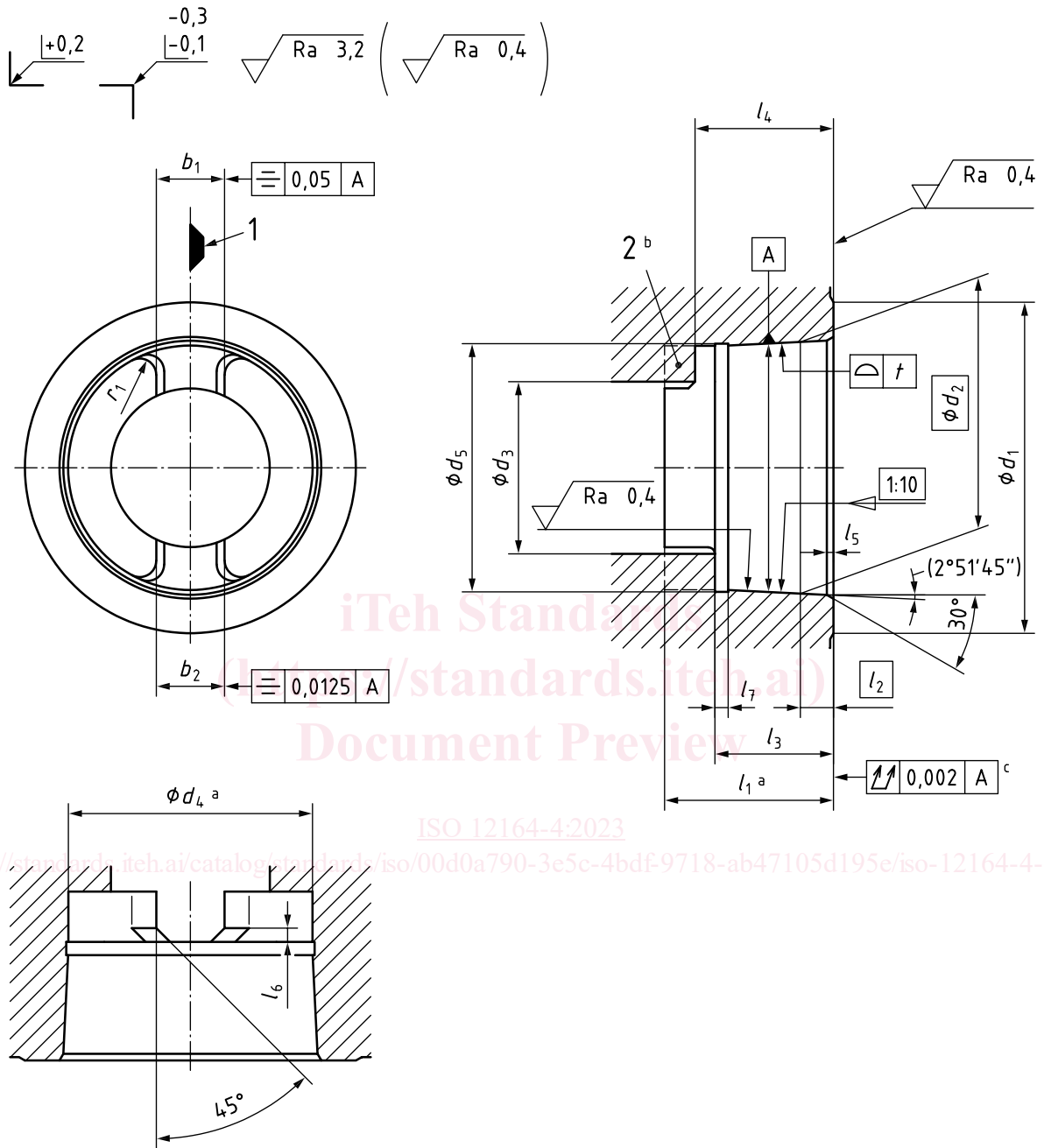
4 Receivers for hollow taper shanks, types and dimensions

4.1 General

Dimensions of receivers for hollow taper shanks with flange contact surface of types T, TA and U are specified in [Figure 1](#), [Figure 2](#) and in [Table 1](#). Details not specified shall be chosen expediently. Tolerances of form, orientation, location and run-out correspond to ISO 1101. Dimensions and tolerances of cones are according to ISO 3040. Tolerances not specified shall be of tolerance class “m” in accordance with ISO 2768-1. Recommendations for use and application are provided in [Annex A](#).

4.2 Receiver of type T for hollow taper shanks of types T and TA

The dimensions of a receiver for hollow taper shanks of types T and TA shall be in accordance with [Figure 1](#) and [Table 1](#).



Key

- 1 position of the cutting edge for right hand tools with single cutting edge
- 2 tenon block
- a With inserted tenon blocks, the taper may extend over the total depth l_1 .
- b Tenon blocks, either integrated or inserted.
- c Not convex.

Figure 1 — Receiver of type T for hollow taper shanks of types T and TA