INTERNATIONAL STANDARD

ISO 10897

Second edition
2016-09-01

Collets for tool holders with taper ratio 1:10 — Collets, holders, nuts

Pinces de serrage pour mandrins à conicité 1:10 — Pinces, mandrins à pinces, écrous de serrage

Reference number
ISO 10897:2016(E)

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Foreword

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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).

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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,* Subcommittee SC 2, *Holding tools, adaptive items and interfaces*.

This second edition cancels and replaces the first edition (ISO 10897:1996), of which it constitutes a minor revision with the addition of Annex B, showing the relationship between the symbols in this International Standard and the symbols in the ISO 13399 series.

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Collets for tool holders with taper ratio 1:10 — Collets, holders, nuts

1 Scope

This International Standard specifies the dimensions, materials and manufacturing requirements, and designation of collets for tools with cylindrical shanks and their corresponding holders and nuts. For non-standardized clamping devices, such as clamping devices specified in drawings, these holders can be agreed upon between customer and supplier.

Form A applies where a clamping range of H10 is sufficient.

Form B can be used for any application without lateral cutting load.

Annex A specifies the values for AT3 tolerance and AT4 tolerance.

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

3 Dimensions

3.1 General

All dimensions and tolerances are given in millimetres. Tolerances not specified shall be of tolerance class “m” in accordance with ISO 2768-1.

3.2 Collet

The dimensions of the collet shall be in accordance with the dimensions shown in Figure 1 and Figure 2 and given in Table 1.

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