

INTERNATIONAL
STANDARD

ISO
2903

Third edition
2016-09-01

**ISO metric trapezoidal screw
threads — Tolerances**

Filetages métriques trapézoïdaux ISO — Tolérances



Reference number
ISO 2903:2016(E)

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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).

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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 World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 1, *Screw threads*.

This third edition cancels and replaces the second edition (ISO 2903:1993), Clauses 1, 13 and 14, and Table 7 of which have been technically revised (now [Clauses 1](#), [11](#) and [12](#), and [Table 5](#)).

ISO metric trapezoidal screw threads — Tolerances

1 Scope

This document specifies a tolerance system for metric trapezoidal screw threads in accordance with ISO 2902. The tolerances refer to the design profile in accordance with ISO 2901.

The tolerance system does not apply to trapezoidal screw threads with special requirements on axial displacement, for example, machine tool lead and feed screws and nuts.

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 965-1, *ISO general purpose metric screw threads — Tolerances — Part 1: Principles and basic data*

ISO 2901, *ISO metric trapezoidal screw threads — Basic and design profiles*

ISO 2902, *ISO metric trapezoidal screw threads — General plan*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5408 apply.

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

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

4 Symbols

For the purposes of this document, the following symbols apply.

D_4	basic major diameter of internal thread
D	nominal diameter (internal thread)
D_2	basic pitch diameter of internal thread
D_1	basic minor diameter of internal thread
d	basic major diameter of external thread (nominal diameter)
d_2	basic pitch diameter of external thread
d_3	basic minor diameter of external thread
P	pitch
Ph	lead