
**Rolling bearings — Thrust bearings —
Boundary dimensions, general plan**

Roulements — Butées — Dimensions d'encombrement, plan général





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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 4, *Rolling bearings*.

This fourth edition cancels and replaces the third edition (ISO 104:2002), which has been technically revised with changes that are editorial and concern mainly on terminology and format.

Rolling bearings — Thrust bearings — Boundary dimensions, general plan

1 Scope

This International Standard specifies preferred boundary dimensions for single-direction and double-direction thrust bearings with flat back faces.

In addition, it gives the minimum bore diameters of housing washers and maximum outside diameters of shaft washers of bearings in dimension series 11, 12, 13, 14, 22, 23 and 24.

Guidelines for the extension of this International Standard for single-direction thrust bearings are given in [Annex A](#).

NOTE Boundary dimensions for aligning thrust bearings (none flat back faces) and aligning seat washers are given in ISO 20516.^[2]

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 582, *Rolling bearings — Chamfer dimensions — Maximum values*

ISO 5593, *Rolling bearings — Vocabulary*

ISO 15241, *Rolling bearings — Symbols for physical quantities*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5593 and the following apply.

3.1

single-direction thrust bearing with flat back faces

thrust rolling bearing with flat back faces intended to support axial load in one direction only

3.2

double-direction thrust bearing with flat back faces

thrust rolling bearing with flat back faces intended to support axial load in both directions

3.3

central shaft washer

central washer which is intended to be mounted on a shaft

[SOURCE: ISO 20516:2007, 3.5]

4 Symbols

For the purposes of this International Standard, the symbols given in ISO 15241 and the following apply.