INTERNATIONAL STANDARD

ISO 8443

Fourth edition 2022-07

Rolling bearings — Radial ball bearings with flanged outer ring — Flange dimensions

ensions Roulements — Roulements à billes avec bague extérieure à collet —



Reference number ISO 8443:2022(E)



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Published in Switzerland

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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 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 4, *Rolling bearings*, Subcommittee SC 12, *Ball bearings*.

This fourth edition cancels and replaces the third edition (ISO 8443:2010), which has been technically revised.

The main changes are as follows:

- the Scope and Normative references have been modified corresponding to the withdrawal of ISO 1224-1 (i.e. tolerances of the flanges for instrument precision bearing are no longer referred to in this edition);
- Figure 1 has been modified.

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.

Rolling bearings — Radial ball bearings with flanged outer ring — Flange dimensions

1 Scope

This document specifies flange dimensions of single-row radial ball bearings with flanged outer ring and single-row angular contact ball bearings with flanged outer ring. All other boundary dimensions for complete bearings are given in ISO 15.

Tolerances for the flanges are given in ISO 492.

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 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 apply.

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

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

4 Symbols

For the purposes of this document, the symbols given in ISO 15241 and the following shall apply.

The symbols shown in <u>Figure 1</u> and the values given in <u>Tables 1</u> to <u>4</u> denote nominal dimensions, unless specified otherwise.

- C outer ring width
- C_1 outer ring flange width
- D outside diameter of outer ring
- D_1 outside diameter of outer ring flange