



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 273.3-2020

**Rolling bearings - Boundary dimensions, general plan - Part
3:Radial bearings**

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Foreword

GB/T 273, Rolling bearings - Boundary dimensions general plan, is divided into 3 parts:

- Part 1: Tapered roller bearings;
- Part 2: Thrust bearings;
- Part 3: Radial bearings.

This Part is Part 3 of GB/T 273.

This Part is drafted in accordance with the rules given in GB/T 1.1-2009.

This Part replaces GB/T 273.3-2015 Rolling bearings - Boundary dimensions, general plan - Part 3: Radial bearings. Compared with GB/T 273.3-2015, the main technical changes are as follows:

- Supplement the width values and minimum single chamfer dimensions of some radial bearings in diameter series 8, 9, 0, and 1 (see Tables 2 ~ 5; Tables 2 ~ 5 of the 2015 edition);
- Expand the range of dimension section for radial bearings in diameter series 8, 9, 0, 1, 2, 3 and 4 (see Tables 2 ~ 8; Tables 2 ~ 8 of the 2015 edition);
- Include some normative references in the bibliography (see Bibliography; Chapter

2 of the 2015 edition).

This Part is identical to ISO 15:2017, Rolling bearings - Radial bearings - Boundary

dimensions, general plan by using the translation method.

The documents of our country that have a consistent correspondence with the international documents that are referenced in this Part are as follows:

- GB/T 305-2019, Rolling bearings - Snap ring grooves and snap rings for radial bearings - Dimensions, geometrical product specifications (GPS) and tolerance values (ISO 464:2015, MOD)
- GB/T 6930-2002, Rolling bearings - Vocabulary (ISO 5593:1997, IDT)
- GB/T 20057-2012, Rolling bearings - Single-row cylindrical roller bearings - Chamfer dimensions for loose rib and non-rib sides (ISO 12043:2007, IDT)
- GB/T 20058-2017, Rolling bearings - Single-row angular contact ball bearings - Chamfer dimensions for outer ring non-thrust side (ISO 12044:2014, IDT)

This Part makes the following editorial changes:

Rolling bearings - Boundary dimensions, general plan - Part

3: Radial bearings

1 Scope

This Part of GB/T 273 specifies the preferred boundary dimensions of radial bearings in diameter series 7, 8, 9, 0, 1, 2, 3 and 4.

2 Normative references

The following referenced documents are indispensable for the application 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 464, Rolling bearings - Radial bearings with locating snap ring - Dimensions, geometrical product specifications (GPS) and tolerance values

ISO 5593, Rolling bearings - Vocabulary

ISO 12043, Rolling bearings - Single-row cylindrical roller bearings - Chamfer dimensions for loose rib and non-rib sides

ISO 12044, Rolling bearings - Single-row angular contact ball bearings - Chamfer dimensions for outer ring non-thrust side

3 Terms and definitions

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

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

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

4 Symbols

For the purpose of this document, the following symbols, as well as those given in ISO15241[3], apply to this document.

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