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GB/T 4663-2017

Replacing GB/T 4663-1994

Rolling bearings - Cylindrical thrust roller bearings - Boundary dimensions

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Table of Contents

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Symbols.....	4
5 Code.....	5
6 Mark	5
7 Boundary dimensions.....	5

Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard replaces GB/T 4663-1994 *Rolling bearings - Cylindrical thrust roller bearings - Boundary dimensions*. Compared with GB/T 4663-1994, in addition to the editorial modifications, the main technical changes are as follows:

- added “Terms and definitions” and “Codes” (see Clause 3, Clause 5 of this Edition);
- added models and dimensions for 11 series of bearings of some one-way cylindrical thrust roller bearings (see Table 1 of this Edition, Table 1 of Edition 1994);
- added the structural type and boundary dimensions of two-way cylindrical thrust roller bearings (see Table 2, Table 3 of this Edition);
- deleted “old and new bearing code contrast” (see Annex A of Edition 1994).

This Standard was proposed by China Machinery Industry Federation.

This Standard shall be under the jurisdiction of National Technical Committee on Rolling Bearings of Standardization Administration of China (SAC/TC 98).

The drafting organization of this Standard: Luoyang LYC Bearing Co., Ltd.

Main drafters of this Standard: Pang Bitao, Xie Xinghui, Wang Jincheng, Xu Lingling, Hu Min.

Versions of standard substituted by this Standard are:

- GB/T 4663-1984, GB/T 4663-1994.

Rolling bearings - Cylindrical thrust roller bearings - Boundary dimensions

1 Scope

This Standard specifies the boundary dimensions of one-way and two-way cylindrical thrust roller bearings.

This Standard is applicable to the design and selection of one-way and two-way cylindrical thrust roller bearings.

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.

GB/T 272, *Rolling bearing - Identification code*

GB/T 274, *Rolling bearings - Chamfer dimension - Maximum values*

GB/T 6930, *Rolling bearings - Vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions defined in GB/T 6930 apply.

4 Symbols

The following symbols apply to this document.

Unless otherwise stated, the symbols shown in Figures 1 and 2 and the values shown in Tables 1 to 3 indicate nominal dimensions.

D: seat outer diameter

D₁: seat inner diameter

D_{1smin}: the smallest single seat diameter

d: inner diameter of one-way bearing shaft

d₁: outer diameter of one-way bearing shaft

d_{1smax}: maximum single shaft outer diameter

d₂: inner diameter of medium ring of two-way bearing

d₃: outer diameter of medium ring of two-way bearing

r: chamfer size of shaft (one-way bearing) and seat ring back

r_{smin}: smallest single chamfer size of shaft (one-way bearing) and seat ring back

r₁: chamfer size of medium ring end face

r_{1smin}: smallest single chamfer size of medium ring end face

T: one-way bearing height

T₁: two-way bearing height

5 Code

The codes provided in GB/T 272 apply to this document.

6 Mark

Marking example: roller bearing 81100 GB/T 4663-2017

7 Boundary dimensions

7.1 The boundary dimensions of one-way cylindrical thrust roller bearings are in accordance with Table 1 and Table 2.

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