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

**中华人民共和国国家标准**

GB/T 283-2007

Replace GB/T 283-1994

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**Rolling bearings—Cylindrical roller bearings—  
Boundary dimensions**

**滚动轴承 圆柱滚子轴承 外形尺寸**

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**Standardization Administration of the People's Republic of  
China**

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## Foreword

This Standard will replace GB/T 283-1994 *Rolling bearings—Cylindrical rolling bearings—Boundary dimensions*.

Comparison with GB/T 283-1994, main changes of this Standard are as follows:

- Extended the range of dimension (table 1 to table 4 in 1994 edition, table 1 to table 4 and table A.2 in this edition);
- Added table 2 and table 4 “N”-type bearing model and related data “E<sub>w</sub>” (see table 2 and table 4 in this edition);
- Changed the dimension of partial chamfer (table 3 and table A3 in 1994 edition, table 3 and table A.2 in this edition);
- Changed and deleted partial roller set nominal internal and external diameter (table 2 to table 5, table A1, table A2, table A4 and table A5 in 1994 edition, table 2 to table 5, table A.1, table A.2, table A.4 and table A.5 in this edition);
- Changed the width of flange (table 9 in 1994 edition, table 9 in this edition);
- Deleted  $d_{2\max}$  or  $D_{2\max}$  in table 6 to table 10 (table 6 to table 10 in 1994 edition, table A6 to table A9 in 1994 edition, table 6 to table 10, table A.6 to table A.9 in this edition);
- Deleted “comparison between new and old bearing code” (Annex B in 1994 edition).

Annex A of this Standard is normative annex.

This Standard is proposed by China Machinery Industry Federation

This Standard is under the jurisdiction of National Technical Committee 98 on Rolling Bearing of Standardization Administration of China.

The responsible drafting organization is Luoyang Bearing Research Institute.

The chief drafting staff of this standard is Guo Baoxia.

This standard replaces the following historical editions issued:

- GB 283-1964, GB 283-1981, GB 283-1987, GB/T 283-1994.
- GB 284-1964, GB 284-1981, GB 284-1987.

# Rolling bearings—Cylindrical roller bearings— Boundary dimensions

## 1 Scope

This standard specifies the cylindrical roller bearings of boundary dimensions in accordance with GB/T 273.3-1999 and boundary dimensions of cylindrical roller bearings without inner ring and outer ring.

This standard applies to the cylindrical roller bearings, manufacturer design for bearing and user selection.

## 2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 273.3-1999 Rolling bearings—Radial bearings—Boundary dimensions, general plan (eqv ISO 15: 1998)

GB/T 274-2000 Rolling bearings-Chamfer dimension-Maximum values (idt ISO 582: 1995)

GB/T 20060-2006 Rolling bearings—Cylindrical roller bearings, separate thrust collars—Boundary dimensions (ISO 246: 1995, IDT)

## 3 Symbols

For the purpose of this standard, the following symbols apply.

Unless otherwise stated, the symbols (see Figure 1 to Figure 8) and values as shown in Figure and Table are all expresses nominal dimension.

d—Internal diameter of bearing;

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