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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 276-2013

Replace GB/T 276-1994

**Rolling bearing—Deep groove ball bearings
—Boundary dimensions**

滚动轴承 深沟球轴承 外形尺寸

Issued on September 18, 2013

Implemented on June 01, 2014

Issued by General Administration of Quality Supervision, Inspection
and Quarantine of the People's Republic of China
Standardization Administration of the People's Republic of
China

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Foreword

This standard is prepared according to the rules specified in GB/T 1.1-2009.

This standard will replace GB/T 276-1994 *Rolling bearings—Deep groove ball bearings—Boundary dimensions*, comparison with GB/T 276-1994, main changes of this standard are as follows:

- Added the Chapter of "Terms and Definitions", "Structural Type" and "Code" (see Chapter 3, 5 and 6);
- Added structural type and its diagram of deep groove ball bearing of which outer ring with snap ring groove and snap ring (see Figure 3); modified some of the diagrams (See Figure 4 to 9, Figure 4, 5, 7, 8, 10 and 11 of 1994 Edition);
- Deleted some structure types and their diagrams (see Figure 3, 6 and 9 of 1994 Edition) and the Codes and dimensions (See the Table 3, 4, Table 6 to 8 of 1994 Edition);
- Added boundary dimensions and models of some bearing (See Table 1 to 9);
- Deleted Annex "New and Original Bearing Code Comparison" (See Annex A of 1994 Edition);

This Standard is proposed by China Machinery Industry Federation

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

The responsible drafting organizations are Luoyang Bearing Science & Technology Co., Ltd and Luoyang Bearing Research Institute Co., Ltd.

The chief drafting staff of this standard includes Li Feixue and Ma Yanbo.

This standard replaces the following historical editions issued:

- GB 276-1964, GB 276-1982, GB 276-1989, GB/T 276-1994;
- GB 277-1964, GB 277-1982, GB 277-1989, GB 278-1964, GB 278-1982, GB 278-1989, GB 279-1964, GB 279-1979, GB 279-1988, GB 4221-1984.

Rolling bearing—Deep groove ball bearings —Boundary dimensions

1 Scope

This Standard specifies boundary dimensions of deep groove ball bearings, deep groove ball bearings of which outer ring with snap ring groove, deep groove ball bearings of which outer rings with snap ring groove and snap ring, and deep groove ball bearings with dust cover, and deep groove ball bearings with sealed ring (hereinafter referred to as bearing), which comply with GB/T 273.3-1999.

This Standard applies to rating design and model selection of bearings.

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 (Including all corrections) or revisions made thereafter shall be applicable to this Standard.

GB/T 272-1993 Rolling bearing—Identification code

GB/T 273.3-1999 Rolling bearings—Radial bearings—Boundary dimensions, general plan

GB/T 274-2000 Rolling bearings-Chamfer dimension-Maximum values

GB/T 305-1998 Rolling bearings—Snap ring groove and snap ring on outer ring—Dimensions and tolerances

GB/T 6930-2002 Rolling bearings-Vocabulary

GB/T 7811-2007 Rolling bearings—Symbols for quantities

JB/T 2974-2004 Rolling bearings-Identification code-Supplemental regulations

3 Terms and definitions

For the purpose of this standard, the terms and definitions specified in GB/T 6930-2002 apply.

4 Symbols

The symbols given by GB/T 7811-2007 and the following symbols apply to this document
Unless otherwise stated, symbols as shown in Figure 1 to 9 and numbers as shown in Table 1 to 9 are nominal dimension.

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