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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 5801–2006

Replace GB/T 5801–1994

**Rolling bearings—Needle roller bearings,
dimension series 48, 49 and 69—Boundary
dimensions and tolerances**

滚动轴承 48, 49 和 69 尺寸系列滚针轴承

外形尺寸和公差

(ISO 1206: 2001, MOD)

Issued on January 09, 2006

Implemented on August 01, 2006

**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

The Standard is modified by adoption of ISO 1206: 2001 – *Rolling Bearing Needle Roller Bearing of Dimension Series 48, 49 and 69 Boundary Dimensions and Tolerances*.

The Standard replaces GB/T 5801-1994 - *Rolling Bearing Needle Roller Bearing Light and Medium Series Boundary Dimensions and Tolerances*.

The Standard is redrafted in accordance with ISO 1206:2001, and in case some of other international standards quoted by ISO1206:2001 are modified to Chinese standards in application, the Standard will quote these national standards of China instead of the corresponding international standards (see Chapter 2 of the Standard), incorporating the references of ISO 1206:2001 into normative reference documents (see Chapter 2 of the Standard); and increasing needle roller bearing models in Tables 1, 2 and 3 of Chapter 5 (see Chapter 5 of the Standard) and requirements on bearing coordination and installation locations (see Annex A of the Standard).

In order to be convenient for use, the Standard also made the following editorial amendment:

- Changed the word “the International Standard” to “the Standard”;
- Used decimal point “.” to replace commas “,” which used as decimal point;
- Deleted the foreword of the International Standard.

In comparison with GB/T5801-1994, the Standard has the main changes as follows:

- Modified the name of the Standard;
- Added four reference standards and deleted 1 reference standard (Chapter 2 of Version 1994 and this Version),
- Added “Terms and Definitions” (See Chapter 3);
- Adjusted arrangement order of symbols, and added part of symbols (Chapter 4 of Version 1994 and this Version);
- Deleted 4 four legends (Figure 1 and Figure 2 of Version 1994);
- Added boundary dimension of bearing NA 6900 and RNA6900 (See Table 3);

- Deleted "Marking" (Chapter 5 of Version 1994)
- Added bearing inner and outer ring tolerance table (See Table 4 and Table 5);
- Added "Radial Internal Clearance" (See Chapter 7);
- Deleted "NK and NKI Series (Light Series) Needle Roller Bearings" (Annex A of Version 1994);
- Changed original Annex B to Annex A (Annex B of Version 1994);
- Deleted "New and Original Bearing Code Comparison" (Annex C of Version 1994).

Annex A of the Standard is Informative Annex.

The Standard was proposed by China Machinery Industry Federation.

The Standard is under the jurisdiction of National Rolling Bearings Standardization Technical Committee (SAC/TC98).

The Standard is drafted by: Luoyang Bearing Research Institute.

The main drafters of the Standard are: Ma Suqing.

This standard replaces the following historical editions issued:

- GB 5801-1986, GB/T 5801-1994.

Rolling bearings—Needle roller bearings, dimension series 48, 49 and 69—Boundary dimensions and tolerances

1 Scope

The Standard specifies boundary dimensions and common tolerances of needle roller bearings of dimension series 48, 49 and 69 in compliance with GB/T273.3-1999.

The Standard applies to complete needle roller bearings and needle roller bearings without inner ring (Hereinafter referred to as bearing)

The Standard does not apply to drawn cup needle roller 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 (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 4199-2003 Rolling bearings—Tolerances—Definitions (ISO 1132-1:2000, MOD)

GB/T 4604-2006 Rolling bearings—Radial internal clearance (ISO 5753:1991, MOD)

GB/T 6930-2002 Rolling bearings-Vocabulary (ISO 5593: 1997, IDT)

GB/T 7811-1999 Rolling bearings-Symbols for quantities

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