

ICS 21.100.20

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Record No: 33611-2011



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

中华人民共和国机械行业标准

JB/T 10187-2011

Replace JB/T 10187-2000

**Rolling bearings — Specifications for vibration
(velocity) of deep groove ball bearings**

滚动轴承

深沟球轴承振动（速度）技术条件

Issued on August 15, 2011

Implemented on November 01, 2011

**Issued by Industry and Information Technology of the People's Republic
of China**

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Foreword

This standard replaces JB/T 10187—2000 “Rolling bearings-Specifications for Vibration (Velocity)of Deep Groove Ball Bearings”.

Compared with JB/T 10187—2000, main changes of this standard are as follows:

- Application scope of the standard extends to deep groove ball bearings of group 2 and group 3 (chapter 1 of this edition);
- Increasing group code definitions of VF3 and VF4 (chapter 4 of this edition);
- Increasing corresponding vibration (velocity) limiting peak value VP3 and VP4 of group VF3 and VF4 that inside diameter is 3 mm to 60 mm (table 1 in this edition);
- Increasing measuring method for vibration (velocity) of deep groove ball bearings (annex A of this edition);
- Increasing measuring method for radial run-out and axial run-out of mandrel (annex B of this edition);
- Increasing measurement method for foundation vibration of testing device (annex C of this edition);
- Deleting “measurement method for vibration (speed) of miniature deep groove ball bearing” (annex A of edition 2000).

Annex A, annex B and annex C of this standard are all normative annexes.

This standard is proposed by China Machinery Industry Federation.

This standard is under the jurisdiction of National Technical Committee on Bearing of Standardization (SAC/TC98) .

Drafting units of this standard: Hangzhou Bearing Test & Research Center Co., Ltd., C&U GROUP LTD., Zhejiang Tianma Bearing Co., Ltd., Qianchao Bearing Co., Ltd.

Main drafters of this standard: Chen Fanghua, Wang Lanying, Yan Weizeng, Lai Zhigang, Zhang Tianping, Wang Jinhan, Chen Yun.

Previous versions that this standard replaces are issued as follows:

- JB/T 10187—2000.

Rolling bearings— Specifications for Vibration (Velocity) of Deep Groove Ball Bearings

1 Scope

This standard stipulates specifications for vibration (velocity) of deep groove ball bearings of diameter series 0, 2 and 3 that the dimensions are in line with provisions of GB/T 276-1994, nominal inside diameter is 3 mm to 120 mm and bearing radial clearances are in line with clearances of GB/T 4604-2006 stipulated group 0, 2 and 3 as well as specifications for corresponding vibration (velocity) peak value of V3 and V4 group that inside diameter is 3 mm to 60 mm.

Group V prescribed in this standard stands for the basic requirement for common bearing vibration (velocity) and the bearing is not marked with “V”; group V1, V2, V3 and V4 apply to bearings that have requirements for vibration (velocity); group VF3 and VF4 apply to bearings that have requirements for both vibration (velocity) and vibration (velocity) peak value.

This standard applies to production inspection and user acceptance inspection for finished bearings by manufacturer.

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 276-1994 Rolling bearings—Deep groove ball bearings—Boundary dimensions

GB/T 2828.1-2003 Sampling procedures for inspection by attributea-Part1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection

GB/T 3141-1994 Industrial liquid lubricants—ISO viscosity classification

GB/T 4604-2006 Rolling bearings--Radial internal clearance

GB/T 24610.1-2009 Rolling bearings—Measuring methods for vibration—Part 1:

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