

Translated and Published by Japanese Standards Association

 $JIS \,\, B \,\, 1521^{\,:\,2012}$ 

(JBIA)

Rolling bearings—Deep groove ball bearings

ICS 21.100.20

 $Reference\ number:\ JIS\ B\ 1521:2012\ (E)$ 

B 1521:2012

Date of Establishment: 1952-03-08

Date of Revision: 2012-05-21

Date of Public Notice in Official Gazette: 2012-05-21

Investigated by: Japanese Industrial Standards Committee

Standards Board

Technical Committee on Machine Elements

JIS B 1521:2012, First English edition published in 2013-02

Translated and published by: Japanese Standards Association 4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

In the event of any doubts arising as to the contents, the original JIS is to be the final authority.

© JSA 2013

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

NH/AT

## Contents

	Page
Int	roduction1
1	Scope1
2	Normative references — 1
3	Terms and definitions ————————————————————————————————————
4	Quantity symbols2
5	Types3
6	Designation3
7	Boundary dimensions ————4
8	Classes, tolerances and permissible values4
9	Radial internal clearances — 4
10	Materials and hardness of bearing rings4
11	Rolling elements — 4
12	Locating snap rings4
13	Measuring methods4
14	Inspection5
15	Packaging5
16	Marking 5

### Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by the Japan Bearing Industry Association (JBIA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently JIS B 1521:1993 is replaced with this Standard.

This **JIS** document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public or utility model right. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public or the utility model right.

# Rolling bearings—Deep groove ball bearings

JIS B 1521 : 2012

#### Introduction

This Japanese Industrial Standard was established in 1952, and has gone through 7 revisions up to the present. The last revision was made in 1993, and the revision at this time is made for reflecting the revisions of the normative references and changes in the standard format that have been made since the last revision.

No corresponding International Standard has been established at this point.

## 1 Scope

This Standard specifies the single-row deep groove ball bearings with no filling slot (hereafter referred to as "bearings).

#### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

- JIS B 0104 Rolling bearings—Vocabulary
- JIS B 0124 Rolling bearings—Symbols for quantities
- JIS B 1509 Rolling bearings—Radial bearings with locating snap ring—Dimensions and tolerances
- JIS B 1511 Rolling bearings—General code
- JIS B 1512-1 Rolling bearings—Boundary dimensions—Part 1: Radial bearings
- JIS B 1513 Rolling bearings—Designation
- JIS B 1514-1 Rolling bearings—Tolerances of bearings—Part 1: Radial bearings
- JIS B 1514-3 Rolling bearings—Tolerances of bearings—Part 3: Chamfer dimensions—Maximum values
- JIS B 1515-1 Rolling bearings—Tolerances—Part 1: Terms and definitions
- JIS B 1515-2 Rolling bearings—Tolerances—Part 2: Measuring and gauging principles and methods
- JIS B 1516 Marking on rolling bearings and packages
- JIS B 1520 Rolling bearings—Radial internal clearance
- JIS Z 2245 Rockwell hardness test—Test method

#### 3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in  $JIS\ B\ 0104$  and  $JIS\ B\ 1515-1$  apply.