

JAPANESE INDUSTRIAL STANDARD

Translated and Published by Japanese Standards Association

JIS B 1566: 2015

(JBIA)

Rolling bearings — Mounting dimensions and fits

ICS 21.100.20

Reference number: JIS B 1566: 2015 (E)

B 1566: 2015

Date of Establishment: 1965-07-01

Date of Revision: 2015-03-20

Date of Public Notice in Official Gazette: 2015-03-20

Investigated by: Japanese Industrial Standards Committee

Standards Board for ISO area

Technical Committee on Machine Elements

JIS B 1566: 2015, First English edition published in 2015-09

Translated and published by: Japanese Standards Association Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

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

© JSA 2015

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 HT/HN

Contents

		Pag	•
1	Scope		
2	Normative references · · · · · · 1		
3	Terms and definitions · · · · · 1		
4	Symbols for quantities · · · · · 2		
5 5.1 5.2 5.3	Mounting dimensions 3 Rounding of corner of shaft and housing 3 Height and diameter of shoulder of shaft and housing 3 Mounting dimensions for subunit and others of bearing 3		
6 6.1 6.2	Radial bearing ··		
Anne	x A (informative)	Mounting dimensions of radial bearings with adapter and radial cylindrical roller bearings of high load capacity type	
Annex B (informative)		Numerical values relating to tolerance classes of shaft and housing used regularly, and fits20	

B 1566: 2015

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 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 1566:1989 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 patent rights, applications for a patent after opening to the public or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, applications for a patent after opening to the public or utility model rights.

Rolling bearings — Mounting dimensions and fits

JIS B 1566: 2015

1 Scope

This Japanese Industrial Standard specifies the general references of mounting dimensions ¹⁾ and fits for rolling bearings (hereafter referred to as "bearings").

- NOTE 1 For reference, the mounting dimensions of radial bearings with adapter and radial cylindrical roller bearings of high load capacity type are given in Annex A, and the numerical values relating to tolerance classes of shaft and housing used regularly, and fits are given in Annex B.
- NOTE 2 It is preferable to consult the manufacturer about the mounting dimensions and fits of bearings not specified herein.
- NOTE 3 It is preferable to determine the geometrical tolerances for the deviation from circular form of mounting part, etc. in consideration of the service conditions.
- Note 1) The mounting dimensions of bearings mean the dimensions relating to the mounting of bearings at the bearing seating of shaft and the bearing seating of housing, and the adjacent parts.

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) shall be applied.

- JIS B 0104 Rolling bearings Vocabulary
- JIS B 0124 Rolling bearings Symbols for quantities
- JIS B 0401-1 ISO system of limits and fits Part 1: Bases of tolerances, deviations and fits
- JIS B 0401-2 ISO system of limits and fits Part 2: Tables of standard tolerance grades and limit deviations for holes and shafts
- JIS B 1514-1 Rolling bearings Tolerances of bearings Part 1: Radial bearings
- JIS B 1514-2 Rolling bearings Tolerances of bearings Part 2: Thrust bearings

3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in **JIS B 0104** and **JIS B 0401-1**, and the following apply.

3.1 rotating inner ring load

load of which the line of action is rotating in relation to the inner ring of bearing