

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS B 0124 : 2009

(JBIA)

Rolling bearings — Symbols for quantities

ICS 01.080.30 ; 21.200

Reference number : JIS B 0124 : 2009 (E)

PROTECTED BY COPYRIGHT

14 S

B 0124 : 2009

Date of Establishment: 1965-03-01

Data of Revision: 2009-03-20

Date of Public Notice in Official Gazette: 2009-03-23

Investigated by: Japanese Industrial Standards Committee

Standards Board

Technical Committee on Machine Elements

JIS B 0124 : 2009, First English edition published in 2009-09

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 2009

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

HN

PROTECTED BY COPYRIGHT

Contents

		Page
Introduction		1
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Symbols for quantities	2
4.1	Principles of symbol system	2
4.2	Symbols	2
4.3	Basic symbols	3
4.4	Subscripts	3
4.5	Style of printing symbols	3
4.6	Classification of symbols for quantities	3
5	Definitions of physical quantities	3
6	Use of square brackets	4
7	Presentation of symbols for physical quantities	4
8	Index	18
Annex JA (informative)	Comparison table between JIS and corresponding International Standard	21

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 of revision of Japanese Industrial Standard submitted by The Japan Bearing Industrial 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 0124:1994** 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, utility model right or application for registration of utility model after opening to the public which have technical properties. 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, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

Rolling bearings — Symbols for quantities

Introduction

This Japanese Industrial Standard has been prepared based on the first edition of ISO 15241 published in 2001 with some modifications such as changes in terms and addition of normative references that are not given in the corresponding International Standard.

The portions underlined with dots are the matters in which the contents of the corresponding International Standard have been modified. A list of modifications with explanations is given in Annex JA.

1 Scope

This Standard defines the presentation of symbols for physical quantities — dimensions, dimensional tolerances, accuracy, load ratings, life, etc. (hereafter referred to as “symbols”) — in the field of rolling bearings.

NOTE : The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows :

ISO 15241 : 2001 *Rolling bearings — Symbols for quantities* (MOD)

The symbols which denote the degree of correspondence in the contents between the relevant International Standard and JIS are IDT (identical), MOD (modified), and NEQ (not equivalent) according to ISO/IEC Guide 21.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. For standards with the year indication, only the editions of the indicated year shall apply but the revisions (including amendments) made thereafter shall not apply. The normative references without the indication of the year shall apply only to the most recent edition (including amendments).

JIS B 0104 *Rolling bearings — Vocabulary*

NOTE : Corresponding International Standard : ISO 5593 : 1997 *Rolling bearings — Vocabulary* (MOD)

JIS B 1515-1 *Rolling bearings — Tolerances — Part 1 : Terms and definitions*

NOTE : Corresponding International Standard : ISO 1132-1 : 2000 *Rolling bearings — Tolerances — Part 1 : Terms and definitions* (IDT)

JIS Z 8201 *Mathematical symbols*