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JIS B 1536-3 : 2025

(JBIA)

**Rolling bearings — Boundary dimensions, geometrical product specifications (GPS) and tolerance values of needle roller bearings — Part 3: Radial needle roller and cage assemblies**

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## Contents

	Page
Introduction .....	1
1 Scope .....	1
2 Normative references .....	1
3 Terms and definitions .....	2
4 Symbols .....	2
5 Boundary dimensions .....	3
6 Limit deviations, limit values and tolerance values .....	5
6.1 Limit deviations, limit values and tolerance values for the needle roller .....	5
6.2 Limit deviations for the cage width .....	6
Annex A (informative) Limit deviations, limit values and tolerance values for shaft raceway, housing raceway and raceway widths .....	7
Annex B (informative) Functional gauging of radial needle roller and cage assemblies .....	10
Annex JA (informative) Comparison table between JIS and corresponding International Standard .....	13

## Foreword

This Japanese Industrial Standard has been 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 a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied *mutatis mutandis* pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS B 1536-3** : 2008), which has been technically revised.

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**JIS B 1536** series consists of the following 5 parts under the general title *Rolling bearings — Boundary dimensions, geometrical product specifications (GPS) and tolerance values of needle roller bearings —*:

*Part 1: Machined rings*

*Part 2: Drawn cup without inner ring*

*Part 3: Radial needle roller and cage assemblies*

*Part 4: Thrust needle roller and cage assemblies, thrust washers*

*Part 5: Track rollers*

# Rolling bearings — Boundary dimensions, geometrical product specifications (GPS) and tolerance values of needle roller bearings — Part 3: Radial needle roller and cage assemblies

## Introduction

This Japanese Industrial Standard has been prepared based on **ISO 3030 : 2022**, Edition 4, with some modifications of the technical contents, for example, by adding requirements not specified in the corresponding International Standard, to reflect the situation in Japan.

The dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

## 1 Scope

This Standard specifies the boundary dimensions, limit deviations, limit values and tolerance values for radial needle roller and cage assemblies. In addition, this Standard gives the tolerances for the cage width.

Informative values for the limit deviations, limit values and tolerance values of shaft raceway, housing raceway and raceway widths are given in Annex A.

Functional gauging of radial needle roller and cage assemblies is given in Annex B for reference.

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

ISO 3030 : 2022 *Rolling bearings — Radial needle roller and cage assemblies — Boundary dimensions, geometrical product specifications (GPS) and tolerance values* (MOD)

In addition, 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 21-1**.

## 2 Normative references

Part or all of the provisions of the following standards, 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 0420-1 *Geometrical product specifications (GPS) — Dimensional tolerancing — Part 1: Linear sizes*

**NOTE** Normative reference in the corresponding International Standard: ISO 14405-1 *Geometrical product specifications (GPS) — Dimensional tol-*