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(JBIA)

**Rolling bearings — Boundary  
dimensions, geometrical product  
specifications (GPS) and tolerance  
values of needle roller bearings —  
Part 1: Machined rings**

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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 .....	7
6	Limit deviations, permissible values and tolerance values .....	13
6.1	General .....	13
6.2	Limit deviations, permissible values and tolerance values for needle roller bearings with and without inner ring .....	13
7	Radial internal clearance .....	15
Annex A (informative)	Limit deviations, permissible values and tolerance values for shaft raceways for needle roller bearings without inner ring .....	16
Annex B (informative)	Symbols and terms as given in previous edition in relation to descriptions given in this Standard .....	18
Bibliography .....		19
Annex JA (informative)	Comparison table between JIS and corresponding International Standard .....	21

## 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 1536-1**: 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 1 : Machined rings

## Introduction

This Japanese Industrial Standard has been prepared based on **ISO 1206** : 2018, Edition 4, with some modifications of the technical contents, such as adding provisions not specified in the corresponding International Standard in line with the actual conditions in Japan.

The vertical lines on both sides and dotted underlines indicate additions to the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

## 1 Scope

This Standard specifies the boundary dimensions, and limit deviations, permissible values and tolerance values for needle roller bearings with machined rings of Grade 0 in accuracy. This Standard also specifies the dimensional and geometrical characteristics, and limit deviations from nominal sizes.

These specifications apply to needle roller bearings with inner ring and without inner ring. Recommended limit deviations, permissible values and tolerance values for shaft raceways used for needle roller bearings without inner ring are given in Annex A.

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

ISO 1206 : 2018 *Rolling bearings — Needle roller bearings with machined rings — 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

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*

**NOTE** Corresponding International Standard : ISO 5593 *Rolling bearings — Vocabulary*

JIS B 0420-1 *Geometrical product specifications (GPS) — Dimensional tolerancing*