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STANDARD

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(JBIA)

**Rolling bearings — Boundary dimensions
and tolerances of needle roller bearings
— Part 4 : Thrust needle roller and cage
assemblies, thrust washers**

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

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard from the Japan Bearing Industrial Association (JBIA) with a draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

Consequently, **JIS B 1536:1999** has been withdrawn, one of the separated parts of which is replaced with this Standard.

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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.

JIS B 1536 consists of the following 5 parts under the general title “*Rolling bearings — Boundary dimensions and tolerances of needle roller bearings*”.

Part 1: Dimension series 48, 49 and 69

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 and tolerances of needle roller bearings — Part 4 : Thrust needle roller and cage assemblies, thrust washers

Introduction

This Japanese Industrial Standard has been prepared based on the third edition of **ISO 3031** published in 2000 with some modifications of the technical contents by adding terms and definitions, and applying the latest symbols.

The portions given sidelines or dotted underlines are the matters in which the contents of the original International Standard have been modified. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard specifies the boundary dimensions, tolerances and permissible values, and gauging for thrust needle roller and cage assemblies, and thrust washers.

NOTE 1 This Standard specifies the boundary dimensions and tolerances of needle roller bearings intending to ensure compatibility and not intending to perform conformity assessment in accordance with this Standard.

NOTE 2 The International Standard corresponding to this Standard is as follows.
ISO 3031 : 2000 Rolling bearings — Thrust needle roller and cage assemblies, thrust washers — Boundary dimensions and tolerances (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**.

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 : 1997** *Rolling bearings — Vocabulary* (MOD)

JIS B 0124 *Rolling bearings — Symbols for quantities*

NOTE : Corresponding International Standard : **ISO 15241 : 2001** *Rolling bear-*