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(JBIA)

Rolling bearings — Boundary dimensions, geometrical product specifications (GPS) and tolerance values 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,
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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 1536-4** : 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 4: Thrust needle roller and cage assemblies, thrust washers

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 3031** : 2021, 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 and limit values for thrust needle roller and cage assemblies, and thrust washers.

Annex A gives general characteristics suggested for application of thrust needle roller and cage assemblies and thrust washers.

Functional gauging of thrust needle roller and cage assemblies and thrust washers 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 3031 : 2021 *Rolling bearings — Thrust needle roller and cage assemblies, thrust washers — 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 tolerancing — Part 1: Linear sizes*