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In the event of any doubts arising as to the contents,
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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 for revision of Japanese Industrial Standard submitted by Japan Machine Accessory Association (JMAA)/Japanese Standards Association (JSA) 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 1192**:1997 is replaced with this Standard.

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Ball screws

Introduction

This Japanese Industrial Standard has been prepared based on the second edition of **ISO 3408-1** published in 2006, the first edition of **ISO 3408-2** published in 1991 and the second edition of **ISO 3408-3** published in 2006 with some modifications of the technical contents. Types, qualities and measuring methods thereof conventionally specified in this Standard are remained, and materials, inspections and marking not specified in the corresponding International Standards are added.

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

1 Scope

This Standard specifies the ball screws.

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

ISO 3408-1:2006 *Ball screws—Part 1: Vocabulary and designation*

ISO 3408-2:1991 *Ball screws—Part 2: Nominal diameters and nominal leads—Metric series*

ISO 3408-3:2006 *Ball screws—Part 3: Acceptance conditions and acceptance tests* (overall evaluation: MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standards 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 1501 *Rolling bearings—Balls*

JIS B 7726 *Rockwell hardness test—Verification and calibration of testing machines*

JIS G 4051 *Carbon steels for machine structural use*

JIS K 2001 *Industrial liquid lubricants—ISO viscosity classification*

JIS Z 2245 *Rockwell hardness test—Test method*

JIS Z 8703 *Standard atmospheric conditions for testing*

3 Terms and definitions

For the purposes of this Standard, the following terms and definitions apply.