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(JMAA/JSA)

Ball screws—Part 2: Nominal diameters and nominal leads

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Foreword

This Japanese Industrial Standard has been established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal for establishment 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.

Consequently **JIS B 1192**:2013 has been withdrawn and partially replaced with this Standard.

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Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, applications for a patent after opening to the public or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, applications for a patent after opening to the public or utility model rights.

JIS B 1192 series consists of the following parts under the general title "Ball screws":

JIS B 1192-1 Part 1: Vocabulary and designation

JIS B 1192-2 Part 2: Nominal diameters and nominal leads

JIS B 1192-3 Part 3: Acceptance conditions and test method

JIS B 1192-4 Part 4: Static axial rigidity

JIS B 1192-5 Part 5: Static and dynamic axial load ratings and operational life

Ball screws—Part 2: Nominal diameters and nominal leads

JIS B 1192-2:2018

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 3408-2**:1991, Edition 1 by deleting the specification of preferred combinations in the corresponding International Standard and changing the construction in line with actual situations in Japan. In order to standardize the shape and dimensions of shaft ends and ball nuts of ball screw shaft, the shape and dimensions of shaft ends are shown in Annex JA, and mounting dimensions of ball nuts in Annex JB, as a reference.

Annex JA and Annex JB are unique to **JIS** and not given in the corresponding International Standard. A list of modifications with the explanations is given in Annex JC.

1 Scope

This Standard specifies general combinations of the nominal diameters and nominal leads, metric series, for ball screws.

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

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

The following standard contains provisions which, through reference in this text, constitute provisions of this Standard. The most recent edition of the standard (including amendments) indicated below shall be applied.

JIS B 1192-1 Ball screws—Part 1: Vocabulary and designation

NOTE Corresponding International Standard: ISO 3408-1 Ball screws—Part 1: Vocabulary and designation (MOD)

3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in **JIS B 1192-1** apply.

4 Combinations of nominal diameters and nominal leads

General combinations of the nominal diameters and nominal leads for ball screws shall be as given in Table 1.