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JIS B 1192-2 : 2025

(JMAA/JSA)

**Ball screws — Part 2: Nominal diameters,  
leads, nut dimensions and mounting bolts**

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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 Japan Machine Accessory Association (JMAA)/Japanese Standards Association (JSA) 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 1192-2** : 2018), which has been technically revised.

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**JIS B 1192** series consists of the following 5 parts under the general title *Ball screws* —

*Part 1: Vocabulary and designation*

*Part 2: Nominal diameters, leads, nut dimensions and mounting bolts*

*Part 3: Acceptance conditions and test method*

*Part 4: Static axial rigidity*

*Part 5 : Static and dynamic axial load ratings and operational life*

# Ball screws — Part 2: Nominal diameters, leads, nut dimensions and mounting bolts

## Introduction

This Japanese Industrial Standard has been prepared based on **ISO 3408-2 : 2021**, Edition 2, with some modifications of the technical contents. The scope is restricted to the ball screw nuts mainly distributed in Japan.

The vertical lines on both sides and 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 nominal diameters and the nominal leads, and the mounting dimensions for ball screw nuts and mounting bolts for metric ball screws. It also specifies general combinations between nominal diameter and nominal lead.

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

ISO 3408-2 : 2021 *Ball screws — Part 2: Nominal diameters, leads, nut dimensions and mounting bolts — 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

Part or all of the provisions of the following standard, 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** Normative reference in the corresponding International Standard: ISO 3408-1 *Ball screws — Part 1: Vocabulary and designation*

## 3 Terms and definitions

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