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(JFRI/JSA)

**Hexagon socket head cap screws**

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## Contents

	Page
Introduction .....	1
1 Scope .....	1
2 Normative references .....	1
3 Terms and definitions .....	2
4 Types .....	3
5 Shape and dimensions, product specifications and example of product designation .....	4
6 Marking .....	14
6.1 Marking on products .....	14
6.2 Marking on packages .....	14
Annex A (informative) Masses of steel screws .....	16
Annex JA (informative) Limits of size of tolerance class 6g .....	18
Annex JB (informative) Property class <u>12.9</u> .....	20
Annex JC (informative) Comparison table between <b>JIS</b> and corresponding International Standards .....	21

## 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 The Japan Research Institute for Screw Threads and Fasteners (JFRI)/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 1176 : 2006** is 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.

# Hexagon socket head cap screws

## Introduction

This Japanese Industrial Standard has been prepared based on the fourth edition of **ISO 4762** published in 2004 and the first edition of **ISO 12474** published in 2010 by integrating them into one standard without modifying the technical contents for corresponding parts (shape and dimensions, product specifications and example of product designation), but also adding specification contents (terms and definitions and marking) that are not contained in the said International Standards.

The portions given sidelines or dotted underlines, Annex JA and Annex JB are the matters not given in the corresponding International Standards. A list of modifications with the explanations is given in Annex JC.

## 1 Scope

This Standard specifies the characteristics of hexagon socket head cap screws with coarse thread from M1.6 up to and including M64 and with fine pitch thread from M8 × 1 up to and including M36 × 3, of product grade A.

For approximate masses of steel screws, see Annex A.

If, in special cases, dimensions and product specifications other than those listed in this Standard are required, they shall be selected from existing Japanese Industrial Standards, for example, **JIS B 0205-2**, **JIS B 0209-2**, **JIS B 1009**, **JIS B 1021**, **JIS B 1051**, **JIS B 1054-1** and **JIS B 1057** upon agreement between the purchaser and the manufacturer.

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

ISO 4762 : 2004 *Hexagon socket head cap screws*

ISO 12474 : 2010 *Hexagon socket head cap screws with metric fine pitch thread* (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) listed below shall be applied.

**JIS B 0101** *Screw threads and fasteners — Vocabulary*

**JIS B 0143** *Fasteners — Bolts, screws, studs and nuts — Symbols and descriptions*