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(JFRI/JSA)

Hexagon socket button head screws

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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 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 1174 : 2000** is replaced with this Standard.

This revision has been made based on **ISO 7380:2004** *Hexagon socket button head screws* for the purposes of making it easier to compare this Standard with International Standard; to prepare Japanese Industrial Standard conforming with International Standard; and to propose a draft of an International Standard which is based on Japanese Industrial Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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Hexagon socket button head screws

Introduction This Japanese Industrial Standard has been prepared based on the third edition of **ISO 7380** *Hexagon socket button head screws* published in 2004 without modifications for the corresponding parts (shapes and dimensions, product specifications and references, and designations), however, an item (marking) not specified in the corresponding International Standard is added as the Japanese Industrial Standard.

The portions given sidelines are the matters not stated in the original International Standard. A list of modifications with the explanations is given in Annex (informative).

1 Scope This Standard specifies the characteristics of hexagon socket button head screws with threads from M3 up to and including M16 with product grade A.

In the case where specifications other than those listed in this Standard are required, they should be selected from, for example, **JIS B 0205-2**, **JIS B 0209-2**, **JIS B 1009**, **JIS B 1021** and **JIS B 1051**.

Remarks 1 Particular attention is drawn to the note in table 2 and to table 3 concerning the limitation on ultimate tensile load.

2 The International Standard corresponding to this Standard is as follows.

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**.

ISO 7380:2004 *Hexagon socket button head screws* (MOD)

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 0143 *Symbols and designations of dimensions for threaded fasteners*

Remarks : **ISO 225**:1983 *Fasteners—Bolts, screws, studs and nuts—Symbols and designations of dimensions* is equivalent to the said standard.

JIS B 0205-2 *ISO general purpose metric screw threads—Part 2: General plan*

Remarks : **ISO 261**:1998 *ISO general-purpose metric screw threads—General plan* is identical with the said standard.

JIS B 0209-2 *ISO general purpose metric screw threads—Tolerances—Part 2: Limits of sizes for general purpose external and internal screw threads—Medium quality*

Remarks : **ISO 965-2**:1998 *ISO general purpose metric screw threads—Tolerances—Part 2: Limits of sizes for general purpose external and internal screw threads—Medium quality* is identical with the said standard.