



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS B 1174 : 2017

(JFRI/JSA)

**Hexagon socket button head
screws**

ICS 21.060.10

Reference number : **JIS B 1174 : 2017 (E)**

Date of Establishment: 1989-01-01

Date of Revision: 2017-03-21

Date of Public Notice in Official Gazette: 2017-03-21

Investigated by: Japanese Industrial Standards Committee
Standards Board for ISO area
Technical Committee on Machine Elements

JIS B 1174:2017, First English edition published in 2017-06

Translated and published by: Japanese Standards Association
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

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

© JSA 2017

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

AT

Contents

	Page
Introduction.....	1
1 Scope.....	1
2 Normative references	1
3 Terms and definitions	3
4 Classification	3
5 Shapes and dimensions, product specifications and designation	4
6 Marking.....	14
6.1 Marking on product.....	14
6.2 Marking on package	14
Annex JA (informative) Comparison table between JIS and corresponding International Standards	16

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 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 1174:2006** is replaced with this Standard.

However, **JIS B 1174:2006** may be applied in the **JIS** mark certification based on the relevant provisions of Article 20 Clause 3, etc. of the Industrial Standardization Law until March 20, 2018.

This **JIS** document is protected by the Copyright Law.

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 button head screws

Introduction

This Japanese Industrial Standard has been prepared based on the first editions of **ISO 7380-1** and **ISO 7380-2** published in 2011 without any modifications of the technical contents, but with some changes in relevant specifications (shapes and dimensions, product specifications and designations).

The vertical lines on both sides and dotted underlines indicate additions to the corresponding International Standards. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard specifies the characteristics of hexagon socket button head screws and of hexagon socket button head screws with collar, with threads from M3 up to and including M16, with product grade A, and having reduced loadability according to Table 5 and Table 9, respectively.

If, in special cases, specifications other than those listed in this Standard are required, they can be selected from existing Japanese Industrial Standards, e.g. **JIS B 0205-2**, **JIS B 0209-3**, **JIS B 1009**, **JIS B 1021**, **JIS B 1051** and **JIS B 1054-1** upon the agreement between the purchaser and the manufacturer.

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

ISO 7380-1:2011 *Button head screws—Part 1: Hexagon socket button head screws*

ISO 7380-2:2011 *Button head screws—Part 2: Hexagon socket button head screws with collar* (overall evaluation: 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 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 0101 *Screw threads and fasteners—Vocabulary*

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

NOTE : Corresponding International Standard: ISO 225:2010 *Fasteners—Bolts, screws, studs and nuts—Symbols and descriptions of dimensions* (IDT)

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