



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS B 1177 : 2007

(JFRI/JSA)

Hexagon socket set screws

ICS 21.060.10

Reference number : JIS B 1177 : 2007 (E)

B 1177 : 2007

Date of Establishment: 1960-03-01

Date of Revision: 2007-04-20

Date of Public Notice in Official Gazette: 2007-04-20

Investigated by: Japanese Industrial Standards Committee
Standards Board

Technical Committee on Machine Elements

JIS B 1177:2007, Second English edition published in 2007-11

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

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

© JSA 2007

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

KA/AT

PROTECTED BY COPYRIGHT

Contents

| | Page |
|---|------|
| Introduction..... | 1 |
| 1 Scope | 1 |
| 2 Normative references | 1 |
| 3 Types, shapes and dimensions | 3 |
| 4 Product specifications | 3 |
| 5 Designation of products | 3 |
| 6 Marking | 4 |
| 6.1 Marking of product | 4 |
| 6.2 Marking of package | 4 |
| Annex JA (informative) Comparison table between JIS and corresponding International Standards | 14 |

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 1177:1997** is replaced with this Standard.

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

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.

Hexagon socket set screws

Introduction

This Japanese Industrial Standard has been prepared based on the third editions of **ISO 4026**, **ISO 4027**, **ISO 4028** and **ISO 4029** published in 2003 without modifications for the corresponding parts (shapes, dimensions, product specifications and designations), however, an item (marking) not specified in the corresponding International Standards is added as the Japanese Industrial Standard.

A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard specifies the hexagon socket set screws of thread size M1.6 to M24 and of product grade A (hereafter referred to as “set screws”).

In the case where dimensions and 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 1021**, **JIS B 1053** and **JIS B 1054-3**.

NOTE : The International Standards corresponding to this Standard are as follows.

ISO 4026:2003 *Hexagon socket set screws with flat point*

ISO 4027:2003 *Hexagon socket set screws with cone point*

ISO 4028:2003 *Hexagon socket set screws with dog point*

ISO 4029:2003 *Hexagon socket set screws with cup point* (total: 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**.

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*

NOTE : Corresponding International Standard: **ISO 225**:1983 *Fasteners—Bolts, screws, studs and nuts—Symbols and designations of dimensions* (MOD)

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

NOTE : Corresponding International Standard: **ISO 261**:1998 *ISO general purpose metric screw threads—General plan* (IDT)

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*