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**Screw and washer assemblies made of
steel with plain washers—Washer
hardness classes 200 HV and 300 HV**

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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 1130 : 2006** is replaced with this Standard.

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Screw and washer assemblies made of steel with plain washers—Washer hardness classes 200 HV and 300 HV

Introduction

This Japanese Industrial Standard has been prepared based on the second edition of ISO 10644 published in 2009 without modifications for the corresponding parts (shapes and dimensions, specifications and reference standards, screw and washer combinations, surface treatment and designations); however, items (terms and definitions, and marking) not specified in the corresponding International Standard are added as the Japanese Industrial Standard.

The portions given sidelines or dotted underlines, and Annex JA are the matters not stated in the corresponding International Standard.

1 Scope

This Standard specifies the requirements for screw and plain washer assemblies of flat seating head made of steel with the property class of up to and including 10.9, the thread of M2 to M12, and the washer hardness class of 200 HV or 300 HV.

Plain washers shall be prevented from disassembly and free to rotate after assembling.

NOTE 1: In manufacturing of the screw and washer assemblies, to fulfil the requirements of the screw and washer assemblies, not only the assembling process of components but also the materials and the manufacturing method of the thread blank and the washer should be considered (see Annex A).

NOTE 2: The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 10644:2009 *Screw and washer assemblies made of steel with plain washers—Washer hardness classes 200 HV and 300 HV*(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 1044 *Fasteners—Electroplated coatings*