



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS B 0209-5 : 2001
(ISO 965-5 : 1998)
(JFRI/JSA)

**ISO general purpose metric screw
threads — Tolerances — Part 5: Limits
of sizes for internal screw threads to
mate with hot-dip galvanized external
screw threads with maximum size of
tolerance position h before galvanizing**

ICS 21.040.10

Reference number : JIS B 0209-5 : 2001 (E)

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard from The Japan Research Institute for Screw Threads and Fasteners (JFRI)/the Japanese Standards Association (JSA), with a draft of Industrial Standard based on the provision of Article 12 Clause 1 of the Industrial Standardization Law. By this Standard, **JIS B 0209:1997**, **JIS B 0211:1997** and **JIS B 0215:1982** were withdrawn and replaced with **JIS B 0209 Part 1 to Part 3**.

This Standard has been made based on **ISO 965-5:1998** *ISO general purpose metric screw threads — Tolerances — Part 5: Limits of sizes for internal screw threads to mate with hot-dip galvanized external screw threads with maximum size of tolerance position h before galvanizing* for the purposes of making easy to compare this Standard with International Standard; to prepare Japanese Industrial Standard conforming with International Standard; and to propose a draft of International Standard which is based on Japanese Industrial Standard.

JIS B 0209 series consist of 5 parts with the title of *ISO general purpose metric screw threads — Tolerances*.

- JIS B 0209-1 *Part 1: Principles and basic data*
- JIS B 0209-2 *Part 2: Limits of sizes for general purpose external and internal screw threads — Medium quality*
- JIS B 0209-3 *Part 3: Deviations for constructional screw threads*
- JIS B 0209-4 *Part 4: Limits of sizes for hot-dip galvanized external screw threads to mate with internal screw threads tapped with tolerance position H or G after galvanizing*
- JIS B 0209-5 *Part 5: Limits of sizes for internal screw threads to mate with hot-dip galvanized external screw threads with maximum size of tolerance position h before galvanizing*

Date of Establishment: 2001-12-20

Date of Public Notice in Official Gazette: 2001-12-20

Investigated by: Japanese Industrial Standards Committee
Standards Board

Technical committee on Machine Elements

JIS B 0209-5:2001, First English edition published in 2002-06

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

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Printed in Japan



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**ISO general purpose
metric screw threads — Tolerances
— Part 5: Limits of sizes
for internal screw threads to mate
with hot-dip galvanized external screw threads
with maximum size of tolerance position h
before galvanizing**

Introduction This Japanese Industrial Standard has been prepared based on the first edition of **ISO 965-5** *ISO general purpose metric screw threads — Tolerances — Part 5: Limits of sizes for internal screw threads to mate with hot-dip galvanized external screw threads with maximum size of tolerance position h before galvanizing* published in 1998 without modifying the technical contents.

1 Scope This Standard specifies deviations and limits of sizes for pitch and crest diameters for ISO general purpose metric internal screw threads conforming to **JIS B 0205-3** having basic profile according to **JIS B 0205-1**.

Internal screw threads according to this Standard are intended to mate with external screw threads with maximum size of tolerance position h before hot-dip galvanizing.

The limits of sizes for the tolerance quality specified are derived from tolerances specified in **JIS B 0209-1**.

The fundamental deviations for internal screw threads with a tolerance position AZ have been calculated according to the following formula:

$$EI_{AZ} = + (300 + 20P)$$

where, EI is expressed in micrometres;

P is expressed in millimetres.

The fundamental deviations for internal screw threads with a tolerance position AX have been calculated according to the following formula:

$$EI_{AX} = + (220P - 20)$$

where, EI is expressed in micrometres;

P is expressed in millimetres.

Products made with thread tolerances according to this Standard may show load failure when tested in accordance with **JIS B 1052** without adjustment of the other mechanical properties.

Internal screw threads with thread tolerances according to this Standard must not be mated with external screw threads having thread tolerances according to **JIS B 0209-4** because such combinations will create severe risk of thread stripping.

Remarks 1. Internal screw threads with tolerance class 6AZ are primarily intended to mate with external screw threads centrifuged after hot-dip galvanizing.