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(JFRI/JSA)

**ISO metric trapezoidal screw
threads—Tolerances—Part 2:
Limits of sizes for external and
internal screw thread**

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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 for establishment 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.

Consequently **JIS B 0218**:1980 has been withdrawn and replaced with this Standard.

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JIS B 0217 series consists of the following 2 parts under the general title “*ISO metric trapezoidal screw threads—Tolerances*”:

Part 1: Principles and basic data

Part 2: Limits of sizes for external and internal screw thread

ISO metric trapezoidal screw threads— Tolerances—Part 2: Limits of sizes for external and internal screw thread

1 Scope

This Japanese Industrial Standard specifies a tolerance system for ISO metric trapezoidal screw threads (Tr) specified in **JIS B 0216-2**.

The limit of size according to this Standard does not apply to trapezoidal screw threads with special requirements on axial displacement, for example, lead screws.

NOTE 1 The trapezoidal screw threads specified in **JIS B 0216-2** shall have the basic profiles and the maximum material profiles according to **JIS B 0216-1**.

NOTE 2 This Standard specifies the limit of size and the tolerance for single-start metric trapezoidal screw threads of N in length of thread engagement according to **JIS B 0216-3** and **JIS B 0217-1**.

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) listed below shall be applied.

JIS B 0101 *Screw threads and fasteners—Vocabulary*

JIS B 0216-1 *ISO metric trapezoidal screw threads—Part 1: Basic profiles and maximum material profiles*

JIS B 0216-2 *ISO metric trapezoidal screw threads—Part 2: General plan*

JIS B 0216-3 *ISO metric trapezoidal screw threads—Part 3: Basic dimensions*

JIS B 0217-1 *ISO metric trapezoidal screw threads—Tolerances—Part 1: Principles and basic data*

3 Terms and definitions

For the purposes of this Standard, the terms and definitions given in **JIS B 0101** apply.

4 Designation of screw threads

The designation of screw threads shall be according to **JIS B 0216-2**.

5 Tolerance quality, tolerance class and limit of size for screw threads

The tolerance quality of ISO metric trapezoidal screw threads shall be classified into medium and coarse, and the tolerance class corresponding thereto shall be as given in table 1. The limit of size shall be as given in table 2 to table 5 according to the division of table 1.