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**Limit gauges for metric screw
threads**

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In the event of any doubts arising as to the contents,
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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 Japan Precision Measuring Instruments Manufactures Association (JMA) 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 0251** : 1998 is replaced with this Standard.

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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.

Limit gauges for metric screw threads

Introduction

This Japanese Industrial Standard has been prepared based on the second edition of **ISO 1502** published in 1996 with some modifications of the technical contents.

The portions given sidelines or dotted underlines are the matters in which the contents of the corresponding International Standard have been modified. A list of modifications with the explanations is given in Annex JB.

1 Scope

This Standard specifies the limit gauges used for the dimensional inspection of metric screw threads specified in **JIS B 0205-2** (hereafter referred to as “limit gauges for screw threads”), and gauges used for checking and setting of them (hereafter referred to as “check gauges and setting gauges”) (The limit gauges for screw threads, the check gauges and the setting gauges are collectively referred to as “gauges” simply).

Other inspection methods, for example, the measurement by the indicating instrument may be used; however, the inspection using gauges specified in this Standard always takes precedence.

This Standard aims to specify the means to discriminate the workpiece threads within the permissible limit sizes from others.

The following principles shall apply to ensure the interchangeability of the workpiece threads and to avoid disputes between the manufacturer and the purchaser.

- a) The manufacturer shall not deliver any workpiece thread whose thread sizes (for example, the single pitch diameter and the virtual pitch diameter) are outside the permissible limit sizes.
- b) The purchaser shall not reject any workpiece thread whose thread sizes (for example, the single pitch diameter and the virtual pitch diameter) are within the permissible limit sizes.

To satisfy these two principles, this Standard specifies classes and sizes of gauges required for the inspection of screw threads, conditions for using these gauges, and the inspection for the workpiece threads.

NOTE : The International Standard corresponding to this Standard is as follows.

ISO 1502:1996 *ISO general-purpose metric screw threads—Gauges and gauging* (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**.

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.