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

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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 Manufacturers Association (JMA)/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 7503**:2011 is replaced with this Standard.

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# Mechanical dial gauges

## Introduction

This Japanese Industrial Standard has been prepared based on the first edition of **ISO 463** published in 2006, with some modifications of the technical contents made for the purpose of bringing the contents in line with the actual production and use in Japan and thereby enhancing usability of this Standard.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JE.

## 1 Scope

This Standard specifies the design specification (design characteristics) and performance (metrological characteristics) of mechanical dial gauges with scale intervals of 0.01 mm, 0.005 mm, 0.002 mm and 0.001 mm.

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

ISO 463:2006 *Geometrical Product Specifications (GPS)—Dimensional measuring equipment—Design and metrological characteristics of mechanical dial gauges* (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 standard (including amendments) indicated below shall be applied.

JIS B 0641-1 *Geometrical Product Specifications (GPS)—Inspection by measurement of workpieces and measuring equipment—Part 1: Decision rules for proving conformance or nonconformance with specifications*

NOTE : Corresponding International Standard: ISO 14253-1 *Geometrical Product Specifications (GPS)—Inspection by measurement of workpieces and measuring equipment—Part 1: Decision rules for proving conformance or non-conformance with specifications* (IDT)

JIS B 0642 *Geometrical product specifications (GPS)—General concepts and requirements for GPS measuring equipment*

NOTE : Corresponding International Standard: ISO 14978 *Geometrical product specifications (GPS)—General concepts and requirements for GPS measuring equipment* (MOD)