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**Geometrical product specifications
(GPS) — Dimensional measuring
equipment — Micrometers**

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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 Japanese Industrial Standard has been 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 a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS B 7502** : 2016), which has been technically revised.

However, **JIS B 7502** : 2016 may be applied in the JIS mark certification based on the relevant provisions of Article 30, paragraph (1), etc. of the Industrial Standardization Act until 22 March 2027.

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Geometrical product specifications (GPS) — Dimensional measuring equipment — Micrometers

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 3611 : 2023**, Edition 3 with some modifications of the technical contents to ensure alignment with actual manufacturing and practical use.

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 JA.

This Standard is a geometrical product specification (GPS) standard and is to be regarded as a general GPS standard (see **JIS B 0661**). It influences Chain Link F and Chain Link G on size and distance. For more detailed information on the relation of this Standard to other GPS standards and the GPS matrix model, see Annex C.

1 Scope

This Standard specifies requirements for micrometers for external measurements, ~~bar-shaped micrometers for internal measurements, micrometers for span measurements of teeth, and micrometer heads (hereafter simply referred to as micrometers where no distinction is necessary)~~, equipped with analogue indication, or mechanical or electronic digital indication.

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

ISO 3611 : 2023 *Geometrical product specifications (GPS) — Dimensional measuring equipment — Design and metrological characteristics of micrometers for external measurements (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

Part or all of the provisions of the following standards, 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 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 1 Normative reference in the corresponding International Standard: ISO 14253-1 *Geometrical product specifications (GPS) — Inspection by measurement of workpieces and measuring equipment — Part 1: Decision rules for verifying conformity or nonconformity with specifications*