JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS B 7507 : 2022

(JMA/JSA)

Geometrical product specifications (GPS) — Dimensional measuring equipment — Vernier, dial and digital callipers

ICS 17.040.30
Reference number : JIS B 7507 : 2022 (E)

Date of Establishment: 1954-03-15

Date of Revision: 2022-05-20

Date of Public Notice in Official Gazette: 2022-05-20

Investigated by: Japanese Industrial Standards Committee

Standards Board for ISO area

Technical Committee on Basic Engineering

JIS B 7507 : 2022, First English edition published in 2022-12

Translated and published by: Japanese Standards Association
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

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

Printed in Japan HN

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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 7507** : 2016), which has been technically revised.

However, **JIS B 7507** : 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 19 May 2023.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, published patent application or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, published patent application or utility model rights.

Geometrical product specifications (GPS) — Dimensional measuring equipment — Vernier, dial and digital callipers

Introduction

This Japanese Industrial Standard has been prepared based on ISO 13385-1 : 2019, Edition 2, with some modifications of the technical contents to make the standard more practical and in keeping with the actual manufacture and use in Japan.

Annex JA is unique to JIS and not given in the corresponding International 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 JB.

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 the chain links F and G of the chain of standards on size and distance in the general GPS matrix. For more detailed information on the relation of this Standard to other GPS standards, see Annex B.

1 Scope

This Standard specifies requirements for callipers equipped with analogue indication with either a vernier scale or a circular scale, and those equipped with digital indication.

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

ISO 13385-1 : 2019 *Geometrical product specifications (GPS) — Dimensional measuring equipment — Part 1 : Design and metrological characteristics of callipers* (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*

JIS B 0641-5 *Geometrical product specifications (GPS) — Inspection by measure-*