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JIS

JAPANESE INDUSTRIAL STANDARD

Depth micrometers

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In the event of any doubt arising,
the original Standard in Japanese is to be final authority.

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Depth micrometers B 7544-1994

1. Scope This Japanese Industrial Standard specifies those of 300 mm or under in the maximum measuring length, among the depth micrometers (1) (hereafter referred to as "micrometers") for general purpose of 0.01 mm in scale interval or 0.001 mm in the minimum indication, and of 0.5 mm in the pitch of screw threads of the spindle.

Furthermore, as to the exchanging spindles (2), these are specified in the Annex.

Notes (1) The micrometers annexed with mechanical or electronic digital indication are also included.

(2) The exchanging spindles may also be called "rods".

Remarks: The standards cited in this Standard are given in the following:

JIS B 7430	Optical flats
JIS B 7431	Optical parallels
JIS B 7506	Gauge blocks
JIS B 7513	Precision surface plates
JIS G 4051	Carbon steels for machine structural use
JIS G 4303	Stainless steel bars
JIS G 4401	Carbon tool steels
JIS G 4404	Alloy tool steels
JIS H 5501	Cemented carbide alloy of tip
JIS Z 8103	Glossary of terms used in instrumentation

2. Definitions For the main terms used in this Standard, the definitions in JIS Z 8103 apply, and the rest of the terms are as follows:

(1) depth micrometer The measuring instrument capable of reading the distance between the reference plane of a base and the measuring plane corresponding to the depth or height of an article to be measured, being equipped with the base having a flat plane which serves as the reference of measurement, and the spindle which travels in axial direction perpendicular to the reference plane; and the sleeve and thimble having graduations indicating the movement of the spindle.

As to those having digital indications, there are the mechanical types and electronic types.

(2) instrumental error The value subtracted the true value from the reading of the micrometer.