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Test mandrels

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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 7545:1982** is replaced with this Standard.

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Test mandrels

1 Scope

This Japanese Industrial Standard specifies the cylindrical test mandrels with taper shank and those with centre holes used mainly for the geometric accuracy tests of machine tools and measuring instruments.

NOTE 1 The term “test mandrels” is used when the test mandrels with taper shank and the test mandrels with centre holes are collectively called.

NOTE 2 When using the test mandrel horizontally, its deflection is taken into consideration (see Annex A).

NOTE 3 Precautions when using test mandrels are shown in Annex B as a reference.

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.

- JIS B 0106 *Machine tools — Parts and working methods — Vocabulary*
- JIS B 0154 *Vocabulary of cones*
- JIS B 0182 *Machine tools — Test codes — Vocabulary*
- JIS B 0651 *Geometrical Product Specifications (GPS) — Surface texture : Profile method — Nominal characteristics of contact (stylus) instruments*
- JIS B 0659-1 *Geometrical Product Specifications (GPS) — Surface texture : Profile method; Measurement standards — Part 1 : Material measures*
- JIS B 0680 *Geometrical Product Specifications (GPS) — Standard reference temperature for geometrical product specification and verification*
- JIS B 1011 *Centre holes*
- JIS B 3301 *Taper gauges — Morse tapers and metric tapers*
- JIS B 4003 *Machine tools — Self-holding tapers for tool shanks*
- JIS B 6064-1 *Hollow taper interface with flange contact surface — Part 1 : Shanks — Dimensions*
- JIS B 6101 *7/24 tapers for tool shanks for manual changing*
- JIS B 6339-1 *Tool shanks with 7/24 taper for automatic tool changers — Part 1 : Dimensions and designation of shanks of forms A, AD, AF, U, UD and UF*
- JIS B 6339-2 *Tool shanks with 7/24 taper for automatic tool changers — Part 2 :*