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**Taper gauges — Morse tapers and
metric tapers**

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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 of revision of Japanese Industries Standard submitted by Japan Precision Measuring Instruments Association (JMA) 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 3301** : 1989 is replaced with this Standard.

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Taper gauges — Morse tapers and metric tapers

Introduction

This Japanese Industrial Standard was established in 1950 and has gone through 3 revisions since. The last revision took place in 1989, and the revision at this time aims to gain conformance of the contents of this Standard to those of **JIS B 4003**, which was published in 1999.

No corresponding International Standard has been established at this point.

1 Scope

This Standard specifies the morse taper gauges (abbreviation MT) and the metric taper gauge (abbreviation MET) (hereafter referred to as “taper gauges”), mainly used for the dimension inspection of morse taper numbers 0 to 6 and metric taper numbers 4, 6, 80 and 100 specified in **JIS B 4003**.

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 0154 *Vocabulary of cones*

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 4003 *Machine tools — Self-holding tapers for tool shanks*

JIS G 4404 *Alloy tool steels*

JIS Z 2244 *Vickers hardness test — Test method*

JIS Z 2245 *Rockwell hardness test — Test method*

3 Terms and definitions

For the purpose of this Standard, the terms and definitions in **JIS B 0154** and the following apply.

3.1 tongue

a flat part provided on the end portion of the minor-diameter side of tapered part