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Involute spline broaches

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B 4239: 1999

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at the Japanese Industrial Standards Committee, as the result of proposal for revision of Japanese Industrial Standard submitted by the Japan Small Tool Makers Association (JSTA)/the Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law. Consequently **JIS B 4239**:1988 is replaced with this Standard.

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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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JIS B 4239: 1999

Introduction This Japanese Industrial Standard specifies broaches that process holes of involute spline specified in **JIS D 2001** Involute spline for automobiles, and now has been revised by reason that **JIS D 2001** was withdrawn and unified with **JIS B 1603** Straight cylindrical involute splines — Side fit — Generalities, dimensions and inspection.

- 1 Scope This Standard specifies involute spline broaches (hereafter referred to as "broaches") which process spline holes corresponding to modules (m) 0.5 mm to 5 mm of involute spline holes specified in **JIS B 1603** (hereafter referred to as "spline holes").
- 2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

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JIS B 0102 Vocabulary of gear terms — Definitions related to geometry
JIS B 0175 Broaches — Vocabulary
JIS B 0401-2 ISO system of limits and fits - Part 2: Tables of standard
              tolerance grades and limit deviations for holes and shafts
JIS B 0405
            General tolerances — Part 1: Tolerances for linear and angular
             dimensions without individual tolerance indications
JIS B 0601
            Surface roughness — Definitions and designation
JIS B 0651
             Surface texture — Instruments for the assessment of surface texture
             — Profile method
JIS B 0659
            Roughness comparison specimens
JIS B 1603
            Straight cylindrical involute splines — Side fit — Generalities,
             dimensions and inspection
            Dimensions of pull and follower ends of broach
JIS B 4237
JIS B 7502
            Micrometer callipers
JIS B 7503
JIS B 7513 Precision surface plates
JIS B 7519 Microindicators
JIS B 7533 Dial test indicators (lever type)
JIS B 7726 Rockwell hardness test — Verification of testing machines
JIS B 7734
            Knoop hardness test — Verification of testing machines
JIS G 4403 High speed tool steels
            Rockwell hardness test — Test method
JIS Z 2245
JIS Z 2251 Knoop hardness test — Test method
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