



JAPANESE
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STANDARD

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JIS B 0610 : 2001
(JSA)

**Geometrical Product Specification
(GPS)—Surface texture :
Profile method—Definitions and
designation of rolling circle
waviness**

ICS 01.040.17; 17.040.20

Descriptors : surface texture, vocabulary, surface treatment

Reference number : JIS B 0610 : 2001 (E)

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 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 0610 : 1987** is replaced with this Standard.

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In the event of any doubts arising as to the contents,
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Geometrical Product Specification (GPS)— Surface texture : Profile method— Definitions and designation of rolling circle waviness

Introduction This Standard has been resulted from the revision of the specification of filtered waviness W_{CM} and central line filtered waviness W_{CA} in **JIS B 0610 : 1987** to the new specification of maximum waviness height W_z and mean waviness W_a as in **JIS B 0601 : 2001** developed on the basis of **ISO 4287 : 1997**.

1 Scope This Japanese Industrial Standard specifies the definitions and designation of the maximum height of rolling circle waviness profile W_{EM} and the arithmetical mean deviation of filtered rolling circle waviness profile W_{EA} for indicating the surface waviness of industrial products.

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.

JIS B 0601 : 2001 *Geometrical Product Specification (GPS)—Surface texture : Profile method—Terms, definitions and surface texture parameters*

Remarks : **ISO 4287 : 1997** *Geometrical Product Specifications (GPS)—Surface texture : Profile method—Terms, definitions and surface texture parameters* is identical with the said standard.

JIS B 0632 : 2001 *Geometrical Product Specification (GPS)—Surface texture : Profile method—Metrological characteristics of phase correct filters*

Remarks : **ISO 11562 : 1996** *Geometrical Product Specifications (GPS)—Surface texture : Profile method—Metrological characterization of phase correct filters* is identical with the said standard.

3 Definitions For the purposes of this Standard the following definitions apply:

3.1 surface profile The profile which appears on the section when cutting the surface of the object (hereafter referred to as “object surface”) with a plane perpendicular to the object surface [see **3.1** (General terms) of **JIS B 0601 : 2001**].

3.2 rolling circle A circle of a given radius used for following the surface profile.

Remarks : In a practical measurement, a ball may be used instead of rolling circle.

3.3 rolling circle traced profile The locus of the centre of the rolling circle which moves along the surface profile.

3.4 rolling circle waviness total profile The rolling circle traced profile which was digitalized.