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Geometrical Product Specification (GPS)—Surface texture : Profile method—Motif parameters

ICS 17.040.20

Descriptors : curves (geometry), product specification, products, specification

Reference number : **JIS B 0631 : 2000 (E)**

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of International Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard from the Japanese Standards Association (JSA), with a draft of Industrial Standard based on the provision of Clause 1, Article 12 of the Industrial Standardization Law.

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

Contents

Geometrical Product Specification (GPS)— Surface texture : Profile method— Motif parameters

Introduction This Japanese Industrial Standard has been prepared based on the first edition of **ISO 12085** *Geometrical Product Specification (GPS)—Surface texture: Profile method—Motif parameters* published in 1996 without modifying the technical contents.

This Standard is a Geometrical Product Specification (GPS) standard and is to be regarded as a General GPS standard (see **TR B 0007**). It influences links 2, 3 and 4 of the surface texture chain of standards on roughness profile and waviness profile.

For more detailed information of the relation of this Standard to other GPS standards, see Annex C.

The approach described in this Standard facilitates the determining roughness and waviness parameters from the primary profile by finding those motifs which characterize the surface under consideration. This method is independent of any profile filter and results in parameters which are based on the depth and spacing of the motifs. These parameters, which are complementary to those defined in **ISO 4287**, can be used to describe the functional properties of workpieces as indicated in Annex B.

The portions underlined with dots are the matters not stated in the original International Standard.

Remarks : **TR B 0007** is identical with **ISO/TR 14638** : 1995 *Geometrical Product Specification (GPS)—Masterplan.*

1 Scope This Standard defines terms and parameters used for determining surface texture by the motif method. It also describes the corresponding ideal operator and measuring conditions.

2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. If the indication of the year of coming into effect is given to these referred standards, only the edition of indicated year constitutes the provision of this Standard but the revision and amendment made thereafter are not applied. The normative references without the indication of the year of coming into effect apply limiting only to the most recent edition.

JIS B 0031 *Technical drawings—Method of indicating surface texture on drawings*

Remarks : Items cited from **ISO 1302** : 1992 *Technical drawings—Method of indicating surface texture* are equivalent to the corresponding matters of the said standard.

JIS B 0651 *Surface texture—Instruments for the assessment of surface texture—Profile method*

ISO 3274 : 1996 *Geometrical Product Specifications (GPS)—Surface texture : Profile method—Nominal characteristics of contact (stylus) instruments*