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**Geometrical Product Specifications
(GPS)—Indication of surface texture
in technical product documentation**

ICS 01.100.20; 17.040.20

Reference number : JIS B 0031 : 2003 (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 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 0031 : 1994** is replaced with this Standard.

This revision is made along with the revision of **ISO 1302** which is the corresponding International Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

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In the event of any doubts arising as to the contents,
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Geometrical Product Specifications (GPS)—Indication of surface texture in technical product documentation

Introduction This Japanese Industrial Standard has been prepared based on the fourth edition of **ISO 1302 Geometrical Product Specifications (GPS)—Indication of surface texture in technical product documentation** published in 2002 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 link 1 of the chain of standards on roughness, waviness and primary profile.

For more detailed information of the relation of this Standard to other standards and the GPS matrix model, see annex J.

This edition of **JIS B 0031** has been developed for use together with the new editions of the surface texture standards issued in 1996 and 1997, which introduce many radical changes compared with the content of the former surface texture standards issued in the 1980s. The changes are so radical that the drawing indications in some instances have a completely new interpretation. Annex H gives detailed information on these changes.

Drawing indications applied on technical drawings according to former editions of this Standard refer to the rules given in the surface texture standards issued at the time of issue and can only be interpreted according to those surface texture standards. Annex I provides information on former practices.

The drawing indications given in this edition are to be used for the unambiguous reference to the new surface texture standards issued in 1996 and 1997.

In addition, portions with continuous sidelines or dotted underlines are the matters not stated in the original International Standard.

NOTE : **TR B 0007** is identical with **ISO/TR 14638 : 1995 Geometrical Product Specifications (GPS)—Master plan**.

1 Scope This Standard specifies the rules for the indication of surface texture in technical product documentation (e.g. drawings, specifications, contracts, reports) by means of graphical symbols and textual indications.

It is applicable to the indication of requirements for surfaces by means of

- a) profile parameters, according to **JIS B 0601**, related to the
 - *R*-profile (roughness parameters),
 - *W*-profile (waviness parameters), and
 - *P*-profile (structural parameters),
- b) motif parameters, according to **JIS B 0631**, related to the
 - roughness motif, and
 - waviness motif,