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GB/T 131-2006 / ISO 1302:2002

Replacing GB/T 131-1993

Geometrical Product Specifications (GPS) – Introduction of Surface Texture in Technical Product Documentation

产品几何技术规范(GPS)技术产品文件中表面结构的表示法 (ISO 1302:2002, IDT)

Issued on: July 19, 2006 Implemented on: February 01, 2007

Issued by: General Administration of Quality Supervision, Inspection and Quarantine;

Standardization Administration of PRC.

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Foreword

This Standard equivalently adopted ISO 1302:2002 Geometrical Product Specifications (GPS) – Introduction of Surface Texture in Technical Product Documentation (English Version).

For the benefit of use, this Standard made the following editorial modifications:

- --- Delete the Foreword and Introduction in the International Standard;
- --- Modify some descriptions apply to the international standard into that apply to Chinese Standard; e.g.: modify the marking example in the international standard such as $R\alpha$ 0.3 and Rz 0.9, etc. into $R\alpha$ 0.2 and Rz 0.8, etc.

This Standard was formulated by reference of the serial standards on (GPS) surface texture published in 1996 and 1997.

This Standard replaced GB/T 131-1993 *Mechanical Drawings - Surface Roughness Symbols and Methods of Indicating.*

Compared with Chinese standard in 1980s, this Standard made great changes in the technical contents. For instance, some marking examples in the standard have been re-interpreted totally.

In this Standard, the Annex A is normative; while Annexes B, C, D, E, F, G, H, I and J are informative.

This Standard shall be under the jurisdiction of National Technical Committee on Product Dimension and Geometric Element Specifications of Standardization Administration of China.

Drafting organizations of this Standard: China Productivity Centre for Machinery, China Academy of Machinery Science & Technology; National Institute of Metrology; Times Group Co., Ltd.; and Jiangsu Teachers University of Technology.

Chief drafting staffs of this Standard: Wang Xinling, Gao Sitian, Wang Zhongbin, Qiang Yi, Wang Huaide, Yang Dongbai, and Chen Jingyu.

Geometrical Product Specifications (GPS) – Introduction of Surface Texture in Technical Product Documentation

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.

This Standard is applicable to the indication of requirements for surfaces by means of

- a) profile parameters, according to GB/T 3505, related to the
 - *R*-profile (roughness parameters);
 - W-profile (waviness parameters); and
 - *P*-profile (structural parameters);
- b) motif parameters, according to GB/T 18618, related to the
 - roughness motif, and
 - waviness motif,
- c) parameters related to the material ratio curve according to GB/T 18778.2 and GB/T 18778.3.

This standard does not apply to the marking method of surface defects (such as holes, scratches, etc.), if there are requirements for surface defects, see GB/T 15757.

2 Normative References

The provisions in following documents become the provisions of this Standard through reference in this Standard. For dated references, the subsequent amendments (excluding corrigendum) or revisions do not apply to this Standard, however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 1182-1996 Geometrical Tolerancing - Generalities, Definitions, Symbols, Indications on Drawings (eqv ISO 1101:1996)

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