

SLOVENSKI STANDARD SIST EN ISO 12781-1:2011

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Specifikacija geometrijskih veličin izdelka - Ravnost - 1. del: Slovar in parametri ravnosti (ISO 12781-1:2011)

Geometrical product specifications (GPS) - Flatness - Part 1: Vocabulary and parameters of flatness (ISO 12781-1:2011)

Geometrische Produktspezifikation (GPS) Æbenheit Æteil 1: Begriffe und Kenngrößen der Ebenheit (ISO 12781-1:2011) (Standards.iteh.ai)

Spécification géométrique des produits (GRS) Planéité - Partie 1: Vocabulaire et paramètres de planéité (ISO 12781 142011) dards/sist/c7429d17-2430-4f3e-9f69-a17fa6784f1b/sist-en-iso-12781-1-2011

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veličin izdelka (GPS) Specification (GPS)

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EUROPEAN STANDARD

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NORME EUROPÉENNE EUROPÄISCHE NORM

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English Version

Geometrical product specifications (GPS) - Flatness - Part 1: Vocabulary and parameters of flatness (ISO 12781-1:2011)

Spécification géométrique des produits (GPS) - Planéité -Partie 1: Vocabulaire et paramètres de planéité (ISO 12781-1:2011) Geometrische Produktspezifikation (GPS) - Ebenheit - Teil 1: Begriffe und Kenngrößen der Ebenheit (ISO 12781-1:2011)

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

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EN ISO 12781-1:2011 (E)

Foreword

This document (EN ISO 12781-1:2011) has been prepared by Technical Committee ISO/TC 213 "Dimensional and geometrical product specifications and verification" in collaboration with Technical Committee CEN/TC 290 "Dimensional and geometrical product specification and verification" the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2011, and conflicting national standards shall be withdrawn at the latest by October 2011.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes CEN ISO/TS 12781-1:2007.

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Endorsement notice

The text of ISO 12781-1:2011 has been approved by 2CEN as a EN ISO 12781-1:2011 without any modification. https://standards.iteh.ai/catalog/standards/sist/c7429d17-2430-4f3e-9f69-a17fa6784f1b/sist-en-iso-12781-1-2011

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INTERNATIONAL STANDARD

ISO 12781-1

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Geometrical product specifications (GPS) — Flatness —

Part 1: Vocabulary and parameters of flatness

Spécification géométrique des produits (GPS) — Planéité —

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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO 12781-1 was prepared by Technical Committee ISO/TC 213, Dimensional and geometrical product specifications and verification.

This first edition of ISO 12781-1 cancels and replaces ISO/TS 12781-1:2003, which has been technically revised. (standards.iteh.ai)

ISO 12781 consists of the following parts, under the general title *Geometrical product specifications (GPS)* — Flatness:

https://standards.iteh.ai/catalog/standards/sist/c7429d17-2430-4f3e-9f69-

- Part 1: Vocabulary and parameters of flathess 12781-1-2011
- Part 2: Specification operators

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Introduction

This part of ISO 12781 is a geometrical product specification (GPS) standard and is to be regarded as a general GPS standard (see ISO/TR 14638). It influences chain link 2 of the chain of standards on form of a surface (independent of a datum).

The ISO/GPS Masterplan given in ISO/TR 14638 gives an overview of the ISO/GPS system of which this part of ISO 12781 is a part. The fundamental rules of ISO/GPS given in ISO 8015 apply to this part of ISO 12781 and the default decision rules given in ISO 14253-1 apply to specifications made in accordance with this part of ISO 12781, unless otherwise indicated.

For more detailed information on the relationship of this part of ISO 12781 to other standards and the GPS matrix model, see Annex C.

This part of ISO 12781 defines terms and concepts necessary for defining the specification operators according to ISO 17450-2 for flatness of integral features.

Extracting data always involves applying a certain filtering process. An additional filtering of the extracted data might or might not be applied. This additional filter can be a mean line filter (Gaussian, spline, wavelet, etc.) or a non-linear filter (e.g. morphological filter). The type of filtering influences the definition of flatness and the specification operators and, therefore, needs to be stated unambiguously.

This part of ISO 12781 is not intended to disallow any means of measuring flatness.

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