



SLOVENSKI STANDARD SIST EN ISO 12780-1:2011

01-oktober-2011

Nadomešča:

SIST-TS CEN ISO/TS 12780-1:2008

Specifikacija geometrijskih veličin izdelka - Premost - 1. del: Slovar in parametri premosti (ISO 12780-1:2011)

Geometrical product specifications (GPS) - Straightness - Part 1: Vocabulary and parameters of straightness (ISO 12780-1:2011)

Geometrische Produktspezifikation (GPS) - Geradheit - Teil 1: Begriffe und Kenngrößen der Geradheit (ISO 12780-1:2011)

Spécification géométrique des produits (GPS) - Rectitude - Partie 1: Vocabulaire et paramètres de rectitude (ISO 12780-1:2011)

Ta slovenski standard je istoveten z: **EN ISO 12780-1:2011**

ICS:

01.040.17	Meroslovje in merjenje. Fizikalni pojavi (Slovarji)	Metrology and measurement. Physical phenomena (Vocabularies)
17.040.40	Specifikacija geometrijskih veličin izdelka (GPS)	Geometrical Product Specification (GPS)

SIST EN ISO 12780-1:2011

en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 12780-1

April 2011

ICS 01.040.17; 17.040.20

Supersedes CEN ISO/TS 12780-1:2007

English Version

**Geometrical product specifications (GPS) - Straightness - Part
1: Vocabulary and parameters of straightness (ISO 12780-
1:2011)**

Spécification géométrique des produits (GPS) - Rectitude -
Partie 1: Vocabulaire et paramètres de rectitude (ISO
12780-1:2011)

Geometrische Produktspezifikation (GPS) - Geradheit - Teil
1: Begriffe und Kenngrößen der Geradheit (ISO 12780-
1:2011)

This European Standard was approved by CEN on 17 March 2011.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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Foreword

This document (EN ISO 12780-1:2011) 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 12780-1:2007.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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INTERNATIONAL
STANDARD

ISO
12780-1

First edition
2011-04-01

**Geometrical product specifications
(GPS) — Straightness —**

Part 1:
**Vocabulary and parameters of
straightness**

iTeh STANDARD PREVIEW
Spécification géométrique des produits (GPS) — Rectitude —
Partie 1: Vocabulaire et paramètres de rectitude
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Reference number
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Published in Switzerland

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ISO 12780-1:2011(E)

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.

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

ISO 12780-1 was prepared by Technical Committee ISO/TC 213, *Dimensional and geometrical product specifications and verification*.

This first edition of ISO 12780-1 cancels and replaces ISO/TS 12780-1:2003, which has been technically revised.

ISO 12780 consists of the following parts, under the general title *Geometrical product specifications (GPS) — Straightness*:

— *Part 1: Vocabulary and parameters of straightness*

— *Part 2: Specification operators*

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Introduction

This part of ISO 12780 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 line independent of datum.

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

For more detailed information of the relationship of this part of ISO 12780 to other standards and the GPS matrix model, see Annex C.

This part of ISO 12780 defines terms and concepts necessary for defining the specification operators according to ISO 17450-2 for straightness 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 straightness and the specification operators and, therefore, needs to be stated unambiguously.

This part of ISO 12780 is not intended to disallow any means of measuring straightness.

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