

SLOVENSKI STANDARD SIST-TS CEN ISO/TS 12180-1:2008 01-april-2008

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Geometrical product specifications (GPS) - Cylindricity - Part 1: Vocabulary and parameters of cylindrical form (ISO/TS 12180-1:2003)

Geometrische Produktspezifikation (GPS) - Zylindrizität - Teil 1: Begriffe und Kenngrößen der Zylinderform (ISO/TS 12180-1:2003)

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Spécification géométrique des produits (GPS) S Qylindricité - Partie 1: Vocabulaire et parametres de cylindricité (ISO/TS 12180-1:2003)

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Geometrical product specifications (GPS) - Cylindricity - Part 1: Vocabulary and parameters of cylindrical form (ISO/TS 12180-1:2003)

Spécification géométrique des produits (GPS) - Cylindricité - Partie 1: Vocabulaire et paramètres de cylindricité (ISO/TS 12180-1:2003)

Geometrische Produktspezifikation (GPS) - Zylindrizität -Teil 1: Begriffe und Kenngrößen der Zylinderform (ISO/TS 12180-1:2003)

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CEN ISO/TS 12180-1:2007(E)

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Foreword

The text of ISO/TS 12180-1:2003 has been prepared by Technical Committee ISO/TC 213 "Dimensional and geometrical product specifications and verification" of the International Organization for Standardization (ISO) and has been taken over as CEN ISO/TS 12180-1:2007 by Technical Committee CEN/TC 290 "Dimensional and geometrical product specification and verification" the secretariat of which is held by AFNOR.

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Endorsement notice

The text of ISO/TS 12180-1:2003 has been approved by CEN as a CEN ISO/TS 12180-1:2007 without any modification.

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TECHNICAL SPECIFICATION

ISO/TS 12180-1

> First edition 2003-12-01

Geometrical Product Specifications (GPS) — Cylindricity —

Part 1:

Vocabulary and parameters of cylindrical form

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Spécification géométrique des produits (GPS) — Cylindricité — S Partie 1. Vocabulaire et paramètres de cylindricité



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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.

In other circumstances, particularly when there is an urgent market requirement for such documents, a technical committee may decide to publish other types of normative document:

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- an ISO Technical Specification (ISO/TS) represents an agreement between the members of a technical committee and is accepted for publication if it is approved by 2/3 of the members of the committee casting a vote.

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An ISO/PAS or ISO/TS is reviewed after three years in order to decide whether it will be confirmed for a further three years, revised to become an international Standard, or withdrawn. If the ISO/PAS or ISO/TS is confirmed, it is reviewed again after a further three years, at which time it must either be transformed into an International Standard or be withdrawn.

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ISO/TS 12180-1 was prepared by Technical Committee ISO/TC 213, Dimensional and geometrical product specifications and verification.

ISO/TS 12180 consists of the following parts, under the general title *Geometrical Product Specifications* (GPS) — Cylindricity:

- Part 1: Vocabulary and parameters of cylindrical form
- Part 2: Specification operators

Introduction

This part of ISO/TS 12180 is a geometrical product specification (GPS) Technical Specification and is to be regarded as a general GPS document (see ISO/TR 14638). It influences chain link 2 of the chain of standards on form of a surface (independent of a datum).

For more detailed information on the relation of this part of ISO/TS 12180 to other standards and the GPS matrix model, see Annex D.

This part of ISO/TS 12180 defines terms and concepts necessary for defining the specification operators according to ISO/TS 17450-2 for cylindricity of integral features.

Extracting data will always involve applying a certain filtering process. An additional filtering of the extracted data may or may 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 will influence the definition of cylindricity and the specification operators and, therefore, needs to be stated unambiguously.

This part of ISO/TS 12180 is not intended to disallow any means of measuring cylindricity.

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