

SLOVENSKI STANDARD SIST EN ISO 5436-1:2000

01-december-2000

Geometrical Product Specifications (GPS) - Surface texture: Profile method; Measurement standards - Part 1: Material measures (ISO 5436-1:2000)

Geometrical Product Specifications (GPS) - Surface texture: Profile method;
Measurement standards - Part 1: Material measures (ISO 5436-1:2000)

Geometrische Produktspezifikationen (GPS) - Oberflächenbeschaffenheit:
Tastschnittverfahren; Normale - Teil 1: Maßverkörperungen (ISO 5436-1:2000)

Spécification géométrique des produits (GPS) - Etat de surface: Méthode du profil;
Etalons - Partie 1: Mesures matérialisées (ISO 5436-1:2000)

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Ta slovenski standard je istoveten z: **EN ISO 5436-1:2000**

ICS:

17.040.30 Merila Measuring instruments

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 5436-1

March 2000

ICS 17.040.30

English version

Geometrical Product Specifications (GPS) - Surface texture:
Profile method; Measurement standards - Part 1: Material
measures (ISO 5436-1:2000)

Spécification géométrique des produits (GPS) - Etat de
surface: Méthode du profil; Etalons - Partie 1: Mesures
matérialisées (ISO 5436-1:2000)

Geometrische Produktspezifikationen (GPS) -
Oberflächenbeschaffenheit: Tastschnittverfahren; Normale
- Teil 1: Maßverkörperungen (ISO 5436-1:2000)

This European Standard was approved by CEN on 10 March 2000.

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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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Foreword

The text of the International Standard ISO 5436-1:2000 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 DIN.

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 September 2000, and conflicting national standards shall be withdrawn at the latest by September 2000.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

NOTE FROM CEN/CS: The foreword is susceptible to be amended on reception of the German language version. The confirmed or amended foreword, and when appropriate, the normative annex ZA for the references to international publications with their relevant European publications will be circulated with the German version.

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Endorsement notice

The text of the International Standard ISO 5436-1:2000 was approved by CEN as a European Standard without any modification.

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Dimensional and geometrical product specifications
and verification

INTERNATIONAL STANDARD

ISO
5436-1

First edition
2000-03-15

Geometrical Product Specifications (GPS) — Surface texture: Profile method; Measurement standards —

Part 1: Material measures

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*Spécification géométrique des produits (GPS) — État de surface: Méthode
du profil: Étalons —*

Partie 1: Mesures matérialisées

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Reference number
ISO 5436-1:2000(E)

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Printed in Switzerland

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ISO 5436-1:2000(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 3.

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 part of ISO 5436 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 5436-1 was prepared by Technical Committee ISO/TC 213, *Dimensional and geometrical product specifications and verification*.

This first edition of ISO 5436-1, together with ISO 5436-2, cancels and replaces (ISO 5436:1985), which has been technically revised.

ISO 5436 consists of the following parts, under the general title *Geometrical Product Specifications (GPS) — Surface texture: Profile method; Measurement standards*:

- Part 1: *Material measures*
- Part 2: *Software measurement standards*

Annex A of this part of ISO 5436 is for information only.

Introduction

This part of ISO 5436 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 6 of the chain of standards on roughness, waviness and primary profile.

For more detailed information of the relation of this part of ISO 5436 to the GPS matrix model, see annex A.

This part of ISO 5436 introduces a new measurement standard, namely Type E, to calibrate the profile co-ordinate system.

NOTE "Measurement standards" were formerly referred to as "calibration specimens".

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Geometrical Product Specifications (GPS) — Surface texture: Profile method; Measurement standards —

Part 1: Material measures

1 Scope

This part of ISO 5436 specifies the characteristics of material measures used as measurement standards (etalons) for the calibration of metrological characteristics of instruments for the measurement of surface texture by the profile method as defined in ISO 3274.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 5436. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 5436 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 3274:1996, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Nominal characteristics of contact (stylus) instruments.*

ISO 4287:1997, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Terms, definitions and surface texture parameters.*

ISO 4288:1996, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Rules and procedures for the assessment of surface texture.*

ISO 10012-1:1992, *Quality assurance requirements for measuring equipment — Part 1: Metrological confirmation system for measuring equipment.*

ISO 12085:1996, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Motif parameters.*

ISO/TS 14253-2:1999, *Geometrical Product Specifications (GPS) — Inspection by measurement of workpieces and measuring equipment — Part 2: Guide to the estimation of uncertainty in GPS measurement, in calibration of measuring equipment and in product verification.*

BIPM, IEC, IFCC, ISO, IUPAC, IUPAP, OIML. *International vocabulary of basic and general terms used in metrology (VIM)*, 1993.

BIPM, IEC IFCC, ISO, IUPAC, IUPAP, OIML. *Guide to the expression of uncertainty in measurement (GUM)*, 1993.

3 Terms and definitions

For the purposes of this part of ISO 5436, the terms and definitions given in ISO 3274, ISO 4287 and VIM apply.