Geometrical product specifications (GPS) - Extraction (ISO 14406:2010)

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NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 14406:2010 sisaldab Euroopa standardi EN ISO 14406:2010 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 14406:2010 consists of the English text of the European standard EN ISO 14406:2010.
Standard on kinnitatud Eesti Standardikeskuse 31.12.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.	This standard is ratified with the order of Estonian Centre for Standardisation dated 31.12.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.
Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 15.12.2010.	Date of Availability of the European standard text 15.12.2010.
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Geometrical product specifications (GPS) - Extraction (ISO 14406:2010)

Spécification géométrique des produits (GPS) - Extraction (ISO 14406:2010)

Geometrische Produktspezifikation (GPS) - Erfassung (ISO 14406:2010)

This European Standard was approved by CEN on 9 October 2010.

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COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (EN ISO 14406:2010) 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of an identical text or by endorsement, at the latest by June 2011, and conflicting national standards shall be withdrawn at the latest by June 2011.

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Endorsement notice

The text of ISO 14406:2010 has been approved by CEN as a EN ISO 14406:2010 without any modification.

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Introduction

This International Standard is a geometrical product specification (GPS) standard and is to be regarded as a general GPS standard (see ISO/TR 14638). It influences the chain links 3 and 5 of all chains of standards.

For more detailed information of the relation of this International Standard to the GPS matrix model, see Annex B.

This International Standard develops the terminology and concepts for GPS extraction. It introduces the concept of sampling and reconstruction for extraction (see ISO 17450-1).

Geometrical product specifications (GPS) — Extraction

1 Scope

This International Standard specifies the basic terminology for GPS extraction. It defines a framework for the fundamental operations used in GPS extraction and introduces the concepts of sampling and reconstruction for extraction, together with some principal sampling schemes on several basic geometries.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 14660-1:1999, *Geometrical product specifications (GPS) — Geometrical features — Part 1: General terms and definitions*

ISO/TS 16610-1:2006, *Geometrical product specifications (GPS) — Filtration — Part 1: Overview and basic concepts*

ISO/TS 16610-40:2006, *Geometrical product specifications (GPS) — Filtration — Part 40: Morphological profile filters: Basic concepts*

ISO 17450-1:—[1)], *Geometrical product specifications (GPS) — General concepts — Part 1: Model for geometrical specification and verification*

ISO 17450-2:—[2)], *Geometrical product specifications (GPS) — General concepts — Part 2: Basic tenets, specifications, operators and uncertainties*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 14660-1, ISO/TS 16610-1, ISO/TS 16610-40, ISO 17450-1, ISO 17450-2 and the following apply.

3.1
non-ideal surface model (of a workpiece)
skin model (of a workpiece)
model of the physical interface of the workpiece with its environment

[ISO 17450-1:—, 3.27]

1) To be published. (Revision of ISO/TS 17450-1:2005)

2) To be published. (Revision of ISO/TS 17450-2:2002)