

# SVENSK STANDARD

## SS-EN ISO 14406:2011

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### **Geometrisk produktspecifikation (GPS) – Extrahering av data (ISO 14406:2010)**

### **Geometrical product specifications (GPS) – Extraction (ISO 14406:2010)**

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Har du synpunkter på innehållet i den här standarden, vill du delta i ett kommande revideringsarbete eller vara med och ta fram andra standarder inom området? Gå in på [www.sis.se](http://www.sis.se) - där hittar du mer information.



EUROPEAN STANDARD

**EN ISO 14406**

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2010

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ICS 17.040.01

English Version

**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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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 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of an identical text or by endorsement, at the latest by June 2011, and conflicting national standards shall be withdrawn at the latest by June 2011.

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.

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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.



## 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:—<sup>1)</sup>, *Geometrical product specifications (GPS) — General concepts — Part 1: Model for geometrical specification and verification*

ISO 17450-2:—<sup>2)</sup>, *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]

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

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