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**NATIONAL STANDARD OF THE
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Geometrical product specifications (GPS) - Extraction

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules for Standardization Documents" drafting.

This document is equivalent to ISO 14406:2010 "Geometric Product Specification (GPS) Extraction".

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document defines the basic terminology of GPS extraction, specifies the basic operational framework and concepts of sampling and reconstruction used in GPS extraction.

At the same time, it stipulates the main sampling schemes of several basic geometries.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

this document.

ISO 16610-1 Geometric product specification (GPS) filtering Part 1. Overview and basic concepts [Geometrical product

Note. GB /Z 26958.1-2011 Product Geometric Specifications (GPS) Filtering Part 1.Overview and Basic Concepts (ISO /T S16610-1.2006, IDT)

ISO 16610-40 Product Geometric Specifications (GPS) Filtering Part 40.Basic Concepts of Morphological Contour Filters [Ge-
cepts]

Note. GB /Z 26958.40-2011 Product Geometric Specifications (GPS) Filtering Part 40.Basic Concepts of Morphological Profile Filters (ISO /T S16610-40.2006, IDT)

ISO 17450-1 Geometric product specification (GPS) General concepts Part 1.Models for geometric specification and inspection [Geomet-
verificatio]

Note. GB/T 24637.1-2020 Product Geometric Specifications (GPS) General Concepts Part 1.Models for Geometric Specifications and Inspections (ISO 17450-1. 2011, MOD)

ISO 17450-2 Geometric product specification (GPS) General concepts Part 2.Fundamental principles, norms, operational sets and uncertainties

Note. GB/T 24637.2-2020 Product Geometric Specifications (GPS) General Concepts Part 2.Basic Principles, Specifications, Operating Sets and Uncertainties
(ISO 17450-2.2012, MOD)

3 Terms and Definitions

The terms and definitions defined in ISO 16610-1, ISO 16610-40, ISO 17450-1, ISO 17450-2 and the following apply to this document.

3.1

A model of the physical interface between the workpiece and its surroundings.

[Source. GB/T 24637.1-2020, 3.2.2]