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Geometrical product specifications (GPS) - General concepts - Part 3: Toleranced features (ISO 17450-3:2016)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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**Geometrical product specifications (GPS) - General
concepts - Part 3: Toleranced features (ISO 17450-3:2016)**

Spécification géométrique des produits (GPS) -
Concepts généraux - Partie 3: Éléments tolérancés (ISO
17450-3:2016)

Geometrische Produktspezifikation (GPS) - Grundlagen
- Teil 3: Tolerierte Geometrieelemente (ISO 17450-
3:2016)

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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN ISO 17450-3:2016) 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of an identical text or by endorsement, at the latest by December 2016, and conflicting national standards shall be withdrawn at the latest by December 2016.

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Endorsement notice

The text of ISO 17450-3:2016 has been approved by CEN as EN ISO 17450-3:2016 without any modification.

Geometrical product specifications (GPS) — General concepts —

Part 3: Toleranced features

*Spécification géométrique des produits (GPS) — Concepts
généraux —*

Partie 3: Éléments tolérancés





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ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 213, *Dimensional and geometrical product specifications and verifications*.

This first edition of ISO 17450-3 cancels and replaces ISO 14660-2:1999, which has been technically revised.

ISO 17450 consists of the following parts, under the general title *Geometrical product specification (GPS) — General concepts*:

- *Part 1: Model for geometrical specification and verification*
- *Part 2: Basic tenets, specifications, operators, uncertainties and ambiguities*
- *Part 3: Toleranced features*
- *Part 4: Geometrical characteristics for quantifying form, orientation, location and run-out deviations*

Introduction

This part of ISO 17450 is a geometrical product specifications (GPS) standard and is to be regarded as a fundamental GPS standard (see ISO 14638). It influences all chain links of all chains of standards in the general GPS matrix model.

The ISO/GPS matrix model given in ISO 14638 gives an overview of the ISO/GPS system of which this document is a part. The fundamental rules of ISO/GPS given in ISO 8015 apply to this document and the default decision rules given in ISO 14253-1 apply to specifications made in accordance with this document, unless otherwise indicated.

For more detailed information of the relation of this part of ISO 17450 to the GPS matrix model, see [Annex A](#).

Geometrical product specifications (GPS) — General concepts —

Part 3: Toleranced features

1 Scope

This part of ISO 17450 gives default definitions for the extracted features (integral or derived) of workpieces, which are toleranced features in GPS specifications (dimensional, geometrical, or surface texture specifications). This part of ISO 17450 defines default geometrical features used to define GPS characteristics.

2 Normative references

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

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

ISO 22432, *Geometrical product specifications (GPS) — Features utilized in specification and verification*

ISO 25378, *Geometrical product specification (GPS) — Characteristics and conditions — Definitions*

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