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| STN | **Geometrické špecifikácie výrobkov (GPS)<br>Všeobecné pojmy<br>Časť 4: Geometrické charakteristiky na kvantifikáciu odchýlky GPS (ISO 17450-4: 2017)** | **STN<br>EN ISO 17450-4**<br><br>01 4441 |
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Geometrical product specifications (GPS) - Basic concepts - Part 4: Geometrical characteristics for quantifying GPS deviations (ISO 17450-4:2017)

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

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Obsahuje: EN ISO 17450-4:2018, ISO 17450-4:2017

EUROPEAN STANDARD

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English Version

# Geometrical product specifications (GPS) - Basic concepts - Part 4: Geometrical characteristics for quantifying GPS deviations (ISO 17450-4:2017)

Spécification géométrique des produits (GPS) - Concepts généraux - Partie 4: Caractéristiques géométriques pour la quantification des écarts GPS (ISO 17450-4:2017)

Geometrische Produktspezifikation (GPS) - Grundlagen - Teil 4: Geometrische Merkmale zur Quantifizierung von GPS-Abweichungen (ISO 17450-4:2017)

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Ref. No. EN ISO 17450-4:2018 E

# Contents

Page

# European foreword

This document (EN ISO 17450-4:2018) 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of an identical text or by endorsement, at the latest by July 2018, and conflicting national standards shall be withdrawn at the latest by July 2018.

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INTERNATIONAL STANDARD

**ISO 17450-4**

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# Geometrical product specifications (GPS) — Basic concepts —

## Part 4: Geometrical characteristics for quantifying GPS deviations

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

*Partie 4: Caractéristiques géométriques pour la quantification des écarts GPS*

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# Contents

Page

# 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 voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee is 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*.

A list of all parts in the ISO 17450 series can be found on the ISO website.

# Introduction

This document is a geometrical product specification (GPS) standard and is to be regarded as a general GPS standard (see ISO 14638). The rules and principles given in this document apply to all segments of the ISO GPS matrix which are indicated with a filled dot (•).

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 on the relationship of this document to other standards and to the GPS matrix model, see Annex A.

**INTERNATIONAL STANDARD** **ISO 17450-4:2017(E)**

# Geometrical product specifications (GPS) — Basic concepts —

# Part 4: Geometrical characteristics for quantifying GPS deviations

## 1 Scope

This document specifies general rules for quantifying GPS deviations for individual GPS characteristics.

NOTE GPS deviations can be local or global. A GPS characteristic defined from local GPS deviations is a parameter that transforms the set of local deviations into a global characteristic using a quantifying function (for more details, see Table 1).

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 25378, *Geometrical product specifications (GPS) — Characteristics and conditions — Definitions*



 