

SLOVENSKI STANDARD SIST EN ISO 10360-9:2014

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Specifikacija geometrijskih veličin izdelka - Preskusi sprejemljivosti in ponovne verifikacije koordinatnih merilnih strojev (CMM) - 9. del: CMM z večtipalnimi sondirnimi sistemi (ISO 10360-9:2013)

Geometrical product specifications (GPS) - Acceptance and reverification tests for coordinate measuring machines (CMM) - Part 9: CMMs with multiple probing systems (ISO 10360-9:2013)

Geometrische Produktspezifikation (GPS) - Annahmeprüfung und Bestätigungsprüfung für Koordinatenmessgeräte (KMG) 2Teil 9: KMG mit Multisensoren (ISO 10360-9:2013)

Spécification géométrique des produits (GPS) - Essais de réception et de vérification périodique des machines à mesurer tridimensionnelles (MMT) - Partie 9: MMT avec systèmes de palpage multiples (ISO 10360-9:2013)

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Geometrical product specifications (GPS) - Acceptance and reverification tests for coordinate measuring systems (CMS) - Part 9: CMMs with multiple probing systems (ISO 10360-9:2013)

Spécification géométrique des produits (GPS) - Essais de réception et de vérification périodique des systèmes de mesure tridimensionnels (SMT) - Partie 9: MMT avec systèmes de palpage multiples (ISO 10360-9:2013)

Geometrische Produktspezifikation (GPS) -Annahmeprüfung und Bestätigungsprüfung für Koordinatenmessgeräte (KMG) - Teil 9: KMG mit Multisensoren (ISO 10360-9:2013)

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Foreword

This document (EN ISO 10360-9:2013) 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of an identical text or by endorsement, at the latest by June 2014, and conflicting national standards shall be withdrawn at the latest by June 2014.

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Endorsement notice

The text of ISO 10360-9:2013 has been approved by CEN as EN ISO 10360-9:2013 without any modification.

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INTERNATIONAL STANDARD

ISO 10360-9

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Geometrical product specifications (GPS) — Acceptance and reverification tests for coordinate measuring systems (CMS) —

Part 9:

iTeh STANDARD PREUDE probing systems

(S Spécification géométrique des produits (GPS) — Essais de réception et de vérification périodique des systèmes de mesure tridimensionnels (SMT) —

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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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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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, Geometrical product specifications and verification.

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ISO 10360 consists of the following parts, under the general stitle Geometrical product specifications (GPS) — Acceptance and reverification tests for coordinate measuring machines (CMM):

- Part 1: Vocabulary
- Part 2: CMMs used for measuring linear dimensions
- Part 3: CMMs with the axis of a rotary table as the fourth axis
- Part 4: CMMs used in scanning measuring mode
- Part 5: CMMs using single and multiple stylus contacting probing systems
- Part 6: Estimation of errors in computing of Gaussian associated features
- Part 7: CMMs equipped with imaging probing systems

ISO 10360 also consists of the following parts, under the general title *Geometrical product specifications* (GPS) — Acceptance and reverification tests for coordinate measuring systems (CMS):

- Part 8: CMMs with optical distance sensors
- Part 9: CMMs with multiple probing systems
- Part 10: Laser trackers for measuring point-to-point distances

The following parts are under preparation:

— Part 12: Articulated-arm CMMs

Computed tomography is to form the subject of a future part 11.

Introduction

This part of ISO 10360 is a geometrical product specification (GPS) standard and is to be regarded as a general GPS standard (see ISO/TR 14638). It influences chain link 5 of the chains of standards on size, distance, radius, angle, form, orientation, location, run-out and datums.

The ISO/GPS Masterplan given in ISO/TR 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 relation of this part of ISO 10360 to other standards and to the GPS matrix model, see <u>Annex B</u>.

The acceptance and reverification tests described in this part of ISO 10360 are applicable to CMMs that use multiple probing systems in contacting and non-contacting mode. The scope of this part is to test the performance of a multiple probing system CMM when two or more probing systems are used on one measurement task. Its general approach is analogous to the multi-stylus test in ISO 10360-5, but focusing on the performance test of different probing system types, for example an imaging probe combined with a contacting probe on single ram CMMs or on multiple ram CMMs.

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