

STN	Geometrické špecifikácie výrobkov (GPS). Charakter povrchu: Plocha. Časť 603: Menovité vlastnosti bezdotykových prístrojov (interferometrické fázové posunutie mikroskopie) (ISO 25178-603: 2013).	STN EN ISO 25178-603
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Geometrical product specifications (GPS) - Surface texture: Areal - Part 603: Nominal characteristics of non-contact (phase-shifting interferometric microscopy) instruments (ISO 25178-603:2013)

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

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/13

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Geometrical product specifications (GPS) - Surface texture:
Areal - Part 603: Nominal characteristics of non-contact (phase-
shifting interferometric microscopy) instruments (ISO 25178-
603:2013)

Spécification géométrique des produits (GPS) - État de
surface: Surfacique - Partie 603: Caractéristiques
nominales des instruments sans contact (microscopes
interférométriques à glissement de franges) (ISO 25178-
603:2013)

Geometrische Produktspezifikation (GPS) -
Oberflächenbeschaffenheit: Flächenhaft - Teil 603:
Merkmale von berührungslos messenden Geräten
(phasenschiebende interferometrische Mikroskopie) (ISO
25178-603:2013)

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Foreword

This document (EN ISO 25178-603:2013) 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of an identical text or by endorsement, at the latest by April 2014, and conflicting national standards shall be withdrawn at the latest by April 2014.

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Endorsement notice

The text of ISO 25178-603:2013 has been approved by CEN as EN ISO 25178-603:2013 without any modification.

**Geometrical product specifications
(GPS) — Surface texture: Areal —**

Part 603:

**Nominal characteristics of non-contact
(phase-shifting interferometric
microscopy) instruments**

*Spécification géométrique des produits (GPS) — État de surface:
Surfacique —*

*Partie 603: Caractéristiques nominales des instruments sans contact
(microscopes interférométriques à glissement de franges)*





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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. www.iso.org/directives

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

ISO 25178 consists of the following parts, under the general title *Geometrical product specification (GPS) — Surface texture: Areal*:

- *Part 1: Areal surface texture drawing indication*
- *Part 2: Terms, definitions and surface texture parameters*
- *Part 3: Specification operators*
- *Part 6: Classification of methods for measuring surface texture*
- *Part 70: Material measures*
- *Part 71: Software measurement standards*
- *Part 601: Nominal characteristics of contact (stylus) instruments*
- *Part 602: Nominal characteristics of non-contact (confocal chromatic probe) instruments*
- *Part 603: Nominal characteristics of non-contact (phase-shifting interferometric microscopy) instruments*
- *Part 604: Nominal characteristics of non-contact (coherence scanning interferometric microscopy) instruments*
- *Part 605: Nominal characteristics of non-contact (point autofocus probe) instruments*
- *Part 606: Nominal characteristics of non-contact (focus variation microscopy) instruments*
- *Part 701: Calibration and measurement standards for contact (stylus) instruments*
- *Part 702 Calibration of non-contact (confocal chromatic probe) instruments*

— *Part 703: Calibration and measurement standards for non-contact (interferometric) instruments*

The following part is under preparation: *Part 72: XML file format x3p*

Introduction

This part of ISO 25178 is a Geometrical Product Specification standard and is to be regarded as a general GPS standard (see ISO/TR 14638). It influences the chain link 5 of the chain of standards on areal surface texture.

This part of ISO 25178 describes the metrological characteristics of phase-shifting interferometric (PSI) profile and areal surface texture measuring microscopes, designed for the measurement of surface topography maps. For more detailed information on the phase-shifting interferometry technique, see [Annex A](#) and [Annex B](#).

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.

NOTE Portions of this document, particularly the informative clauses, may describe patented systems and methods. This information is provided only to assist users in understanding the operating principles of phase-shifting interferometry. This document is not intended to establish priority for any intellectual property, nor does it imply a license to any proprietary technologies that may be described herein.

Geometrical product specifications (GPS) — Surface texture: Areal —

Part 603: Nominal characteristics of non-contact (phase-shifting interferometric microscopy) instruments

1 Scope

This part of ISO 25178 describes the metrological characteristics of phase-shifting interferometric (PSI) profile and areal surface texture measuring microscopes.

koniec náhľadu – text ďalej pokračuje v platenej verzii STN