



SLOVENSKI STANDARD
SIST EN ISO 25178-601:2025

01-maj-2025

Specifikacija geometrijskih veličin izdelka - Tekstura površine: ploskovna - 601. del: Konstrukcije in značilnosti kontaktnih (s tipalom) instrumentov (ISO 25178-601:2025)

Geometrical product specifications (GPS) - Surface texture: Areal - Part 601: Design and characteristics of contact (stylus) instruments (ISO 25178-601:2025)

Geometrische Produktspezifikation (GPS) - Oberflächenbeschaffenheit: Flächenhaft - Teil 601: Aufbau und Merkmale von berührend messenden Geräten (mit Taster) (ISO 25178-601:2025)

Spécification géométrique des produits (GPS) - État de surface: Surfacique - Partie 601: Conception et caractéristiques des instruments à contact (à stylet) (ISO 25178-601:2025)

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Ta slovenski standard je istoveten z: EN ISO 25178-601:2025

ICS:

17.040.20	Lastnosti površin	Properties of surfaces
17.040.40	Specifikacija geometrijskih veličin izdelka (GPS)	Geometrical Product Specification (GPS)

SIST EN ISO 25178-601:2025

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NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 25178-601

February 2025

ICS 17.040.20

Supersedes EN ISO 25178-601:2010

English Version

**Geometrical product specifications (GPS) - Surface texture:
Areal - Part 601: Design and characteristics of contact
(stylus) instruments (ISO 25178-601:2025)**

Spécification géométrique des produits (GPS) - État de surface: Surfacique - Partie 601: Conception et caractéristiques des instruments à contact (palpeur) (ISO 25178-601:2025)

Geometrische Produktspezifikation (GPS) - Oberflächenbeschaffenheit: Flächenhaft - Teil 601: Aufbau und Merkmale von berührend messenden Geräten (mit Taster) (ISO 25178-601:2025)

This European Standard was approved by CEN on 21 February 2025.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN ISO 25178-601:2025 (E)

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European foreword

This document (EN ISO 25178-601:2025) 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 August 2025, and conflicting national standards shall be withdrawn at the latest by August 2025.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 25178-601:2010.

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Endorsement notice

The text of ISO 25178-601:2025 has been approved by CEN as EN ISO 25178-601:2025 without any modification.



**International
Standard**

ISO 25178-601

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

Part 601:

**Design and characteristics of
contact (stylus) instruments**

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

*Partie 601: Conception et caractéristiques des instruments à
contact (palpeur)*

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**Second edition
2025-02**

ISO 25178-601:2025(en)

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ISO 25178-601:2025(en)

Foreword

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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 document 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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This document was prepared by Technical Committee ISO/TC 213, *Dimensional and geometrical product specifications and verification*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 290, *Dimensional and geometrical product specification and verification*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 25178-601:2010), which has been technically revised, and cancels and replaces ISO 3274:1996, whose contents have been revised and incorporated into this document and others, see [Annex C](#) for more information.

The main changes are as follows:

- removal of information about the general metrological characteristics for the areal topography measuring method, which are specified in ISO 25178-600;
- removal of the terms and definitions now specified in ISO 25178-600;
- revision of all terms and definitions for clarity and consistency with other ISO standards documents;
- addition of [Clause 4](#) for instrument requirements, which summarizes normative features and characteristics;
- addition of an information flow concept diagram in [Clause 4](#);
- addition of [Clause 5](#) on metrological characteristics;
- addition of [Clause 6](#) on design features, which clarifies the types of instruments relevant to this document;
- revision of [Annex A](#) describing the principles of instruments addressed by this document;
- addition of [Annex B](#) on the metrological characteristics and influence quantities; replacement of the normative table of influence quantities with an informative description of common error sources and how these relate to the metrological characteristics in ISO 25178-600;