

STN	Geometrické špecifikácie výrobkov (GPS) Charakter povrchu: Profil Časť 1: Označovanie charakteru povrchu (ISO 21920-1: 2021)	STN EN ISO 21920-1 01 4445
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Geometrical product specifications (GPS) - Surface texture: Profile - Part 1: Indication of surface texture (ISO 21920-1:2021)

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) - Surface texture:
Profile - Part 1: Indication of surface texture (ISO 21920-
1:2021)**

Spécification géométrique des produits (GPS) - État de
surface: Méthode du profil - Partie 1: Indication des
états de surface (ISO 21920-1:2021)

Geometrische Produktspezifikation (GPS) -
Oberflächenbeschaffenheit: Profile - Teil 1: Angabe der
Oberflächenbeschaffenheit (ISO 21920-1:2021)

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

EN ISO 21920-1:2022 (E)

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European foreword

This document (EN ISO 21920-1:2022) 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of an identical text or by endorsement, at the latest by July 2022, and conflicting national standards shall be withdrawn at the latest by July 2022.

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

Part 1: Indication of surface texture

*Spécification géométrique des produits (GPS) — État de surface:
Méthode du profil —*

Partie 1: Indication des états de surface



Reference number
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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 of 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 www.iso.org/iso/foreword.html.

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 document cancels and replaces ISO 1302:2002, which has been technically revised. In addition to the change of number, the main changes to ISO 1302:2002 are as follows:

- New specification elements for indication are defined.
- The maximum tolerance acceptance rule is the default tolerance acceptance rule.

A list of all parts in the ISO 21920 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

ISO 21920-1:2021(E)

Introduction

This document is a geometrical product specification (GPS) standard and is to be regarded as a general GPS standard (see ISO 14638). It influences chain link A of the chains of standards on profile surface texture.

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 the specifications made in accordance with this document, unless otherwise indicated.

For more detailed information of the relation of this document to other standards and the GPS matrix model, see [Annex H](#), [Table H.1](#), and [Annex I](#).

This document covers the indication of profile surface texture.

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

Part 1: Indication of surface texture

1 Scope

This document specifies the rules for indication of surface texture by profile methods in technical product documentation by means of graphical symbols.

This document does not cover population requirements.

NOTE See ISO 18391 for population (batch) specifications.

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 21920-2, *Geometrical product specifications (GPS) — Surface texture: Profile — Part 2: Terms, definitions and surface texture parameters*

ISO 21920-3, *Geometrical product specifications (GPS) — Surface texture: Profile — Part 3: Specification operators*

ISO 81714-1, *Design of graphical symbols for use in the technical documentation of products — Part 1: Basic rules*

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