

SLOVENSKI STANDARD SIST EN ISO 22081:2021

01-april-2021

Nadomešča:
SIST EN 22768-2:2000

Specifikacija geometrijskih veličin izdelka (GPS) - Geometrijsko toleriranje - Splošne geometrijske specifikacije in splošne specifikacije velikosti (ISO 22081:2021)

Geometrical product specifications (GPS) - Geometrical tolerancing - General geometrical specifications and general size specifications (ISO 22081:2021)

Geometrische Produktspezifikation (GPS) - Geometrische Tolerierung - Allgemeine geometrische und Maßspezifikationen (ISO 22081:2021)

Spécification géométrique des produits (GPS) - Tolérancement géométrique - Spécifications géométriques générales et spécifications de taille générales (ISO 22081:2021)

Ta slovenski standard je istoveten z: EN ISO 22081:2021

ICS:

17.040.40	Specifikacija geometrijskih veličin izdelka (GPS)	Geometrical Product Specification (GPS)
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SIST EN ISO 22081:2021

en,fr,de

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EUROPEAN STANDARD

EN ISO 22081

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2021

ICS 17.040.40

Supersedes EN 22768-2:1993

English Version

Geometrical product specifications (GPS) - Geometrical tolerancing - General geometrical specifications and general size specifications (ISO 22081:2021)

Spécification géométrique des produits (GPS) -
Tolérancement géométrique - Spécifications
géométriques générales et spécifications de taille
générales (ISO 22081:2021)

Geometrische Produktspezifikation (GPS) -
Geometrische Tolerierung - Allgemeine geometrische
und Maßspezifikationen (ISO 22081:2021)

This European Standard was approved by CEN on 21 January 2021.

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COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword.....	3

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European foreword

This document (EN ISO 22081:2021) 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 2021, and conflicting national standards shall be withdrawn at the latest by August 2021.

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 22768-2:1993.

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Endorsement notice

The text of ISO 22081:2021 has been approved by CEN as EN ISO 22081:2021 without any modification.

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INTERNATIONAL
STANDARD

ISO
22081

First edition
2021-02

**Geometrical product specifications
(GPS) — Geometrical tolerancing —
General geometrical specifications
and general size specifications**

*Spécification géométrique des produits (GPS) — Tolérancement
géométrique — Spécifications géométriques générales et
spécifications de taille générales*

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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Basic principles	2
4.1 General.....	2
4.2 Basic rule.....	2
4.3 Indication in a technical product documentation (TPD).....	3
5 General geometrical specification	3
5.1 Rule for indicating the general geometrical specification.....	3
5.2 Rule for the applicability of the general geometrical specification.....	4
5.3 Rules for the datum system.....	6
6 General size specifications	7
6.1 Rule for indicating general size specifications.....	7
6.2 Rule for the applicability of general size specifications.....	7
Annex A (informative) Example of indication with reference to a table in the TPD	9
Annex B (informative) Examples	10
Annex C (informative) Relation to the GPS matrix model	13
Bibliography	14

SIST EN ISO 22081:2021

<https://standards.iteh.ai/catalog/standards/sist/9e441fc1-55ca-46af-bad3-607e61af8070/sist-en-iso-22081-2021>

ISO 22081:2021(E)

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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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

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 first edition cancels and replaces ISO 2768-2:1989, which has been technically revised.

The main changes to ISO 2768-2:1989 are as follows:

- tools have been added to specify a general geometrical specification and a general size specification;
- the rules for application of general geometrical specification and general size specification have been clarified.

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.

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 links A, B and C of the chain of standards on size, distance, form, orientation and location.

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 C](#).

This document deals with general geometrical specification and general size specifications, which can be used to reduce the number of individual specification indications in technical product documentation (TPD). Many geometrical features have individual specifications which are similar or identical. As an alternative, general geometrical specifications, general size specifications or both may be applied.

All figures in this document for the 2D drawing indications have been drawn in first-angle projection with dimensions and tolerances in millimetres. It should be understood that third-angle projection and other units of measurement could have been used equally well without prejudice to the principles established.

The figures in this document represent either 2D drawing views or 3D axonometric views and are intended to illustrate how a specification can be fully indicated with visible annotation. For possibilities of illustrating a specification where elements of the specification may be available through a query function or other interrogation of information on the 3D CAD model, and rules for attaching specifications to 3D CAD models, see ISO 16792.

All figures are not complete and should not be seen as a way to fully specify a part. Theoretically exact dimensions (TED) which are not indicated are assumed to be obtained from the 3D CAD model.