

STN	Technická dokumentácia výrobku (TPD) Všeobecné zásady zobrazovania Časť 1: Úvod a základné požiadavky (ISO 128-1: 2020)	STN EN ISO 128-1 01 3121
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Technical product documentation (TPD) - General principles of representation - Part 1: Introduction and fundamental requirements (ISO 128-1:2020)

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. 11/20

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English Version

Technical product documentation (TPD) - General principles of representation - Part 1: Introduction and fundamental requirements (ISO 128-1:2020)

Documentation technique de produits (TPD) -
Principes généraux de représentation - Partie 1:
Introduction et exigences fondamentales (ISO 128-
1:2020)

Technische Produktdokumentation (TPD) - Allgemeine
Grundlagen der Darstellung - Teil 1: Einleitung und
grundlegende Anforderungen (ISO 128-1:2020)

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EN ISO 128-1:2020 (E)

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European foreword

This document (EN ISO 128-1:2020) has been prepared by Technical Committee ISO/TC 10 "Technical product documentation" in collaboration with Technical Committee CEN/SS F01 "Technical drawings" the secretariat of which is held by CCMC.

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of an identical text or by endorsement, at the latest by December 2020, and conflicting national standards shall be withdrawn at the latest by December 2020.

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.

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Endorsement notice

The text of ISO 128-1:2020 has been approved by CEN as EN ISO 128-1:2020 without any modification.

INTERNATIONAL STANDARD

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Technical product documentation (TPD) — General principles of representation —

Part 1: Introduction and fundamental requirements

*Documentation technique de produits (TPD) — Principes généraux de
représentation —*

Partie 1: Introduction et exigences fondamentales



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ISO 128-1:2020(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).

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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 10, *Technical product documentation*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/SS F01, *Technical drawings*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 128-1:2003), which has been technically revised. The main changes to the previous edition are as follows:

- the index has been moved to ISO 128-100;
- references have been updated to point to the revised parts of the ISO 128 series.

A list of all parts in the ISO 128 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.

Technical product documentation (TPD) — General principles of representation —

Part 1: Introduction and fundamental requirements

1 Scope

This document gives general rules for the execution of technical drawings (2D and 3D), as well as presenting the structure of the other parts of the ISO 128 series. This document is applicable to technical drawing in the fields of mechanical engineering, construction, architecture and shipbuilding. It is applicable to both manual and computer-based technical drawings.

For the purpose of this document the term “technical drawing” shall be interpreted in the broadest possible sense, encompassing the total package of documentation specifying the product (workpiece, subassembly, assembly).

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 129 (all parts), *Technical product documentation (TPD) — Presentation of dimensions and tolerances*
- ISO 286-1, *Geometrical product specifications (GPS) — ISO code system for tolerances on linear sizes — Part 1: Basis of tolerances, deviations and fits*
- ISO 1101, *Geometrical product specifications (GPS) — Geometrical tolerancing — Tolerances of form, orientation, location and run-out*
- ISO 1302, *Geometrical Product Specifications (GPS) — Indication of surface texture in technical product documentation*
- ISO 2538-2, *Geometrical product specifications (GPS) — Wedges — Part 2: Dimensioning and tolerancing*
- ISO 2553, *Welding and allied processes — Symbolic representation on drawings — Welded joints*
- ISO 2692, *Geometrical Product Specifications (GPS) — Geometrical tolerancing — Maximum material requirement (MMR), least material requirement (LMR) and reciprocity requirement (RPR)*
- ISO 3040, *Geometrical product specifications (GPS) — Dimensioning and tolerancing — Cones*
- ISO 3098-1, *Technical product documentation — Lettering — Part 1: General requirements*
- ISO 5457, *Technical product documentation — Sizes and layout of drawing sheets*
- ISO 5458, *Geometrical product specifications (GPS) — Geometrical tolerancing — Pattern and combined geometrical specification*
- ISO 5459, *Geometrical product specifications (GPS) — Geometrical tolerancing — Datums and datum systems*
- ISO 6284, *Construction drawings — Indication of limit deviations*
- ISO 6428, *Technical drawings — Requirements for microcopying*

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ISO 6433, *Technical product documentation — Part references*

ISO 7083, *Technical drawings — Symbols for geometrical tolerancing — Proportions and dimensions*

ISO 7200, *Technical product documentation — Data fields in title blocks and document headers*

ISO 7573, *Technical product documentation — Parts lists*

ISO 8015, *Geometrical product specifications (GPS) — Fundamentals — Concepts, principles and rules*

ISO 8560, *Technical drawings — Construction drawings — Representation of modular sizes, lines and grids*

ISO 9431, *Construction drawings — Spaces for drawing and for text, and title blocks on drawing sheets*

ISO 10135, *Geometrical product specifications (GPS) — Drawing indications for moulded parts in technical product documentation (TPD)*

ISO 10209, *Technical product documentation — Vocabulary — Terms relating to technical drawings, product definition and related documentation*

ISO 13715, *Technical product documentation — Edges of undefined shape — Indication and dimensioning*

ISO 14405-1, *Geometrical product specifications (GPS) — Dimensional tolerancing — Part 1: Linear sizes*

ISO 14405-2, *Geometrical product specifications (GPS) — Dimensional tolerancing — Part 2: Dimensions other than linear or angular sizes*

ISO 14405-3, *Geometrical product specifications (GPS) — Dimensional tolerancing — Part 3: Angular sizes*

ISO 15785, *Technical drawings — Symbolic presentation and indication of adhesive, fold and pressed joints*

ISO 15787, *Technical product documentation — Heat-treated ferrous parts — Presentation and indications*

ISO 16016, *Technical product documentation — Protection notices for restricting the use of documents and products*

ISO 25178-1, *Geometrical product specifications (GPS) — Surface texture: Areal — Part 1: Indication of surface texture*

ISO 80000-1, *Quantities and units — Part 1: General*

ISO 80000-3, *Quantities and units — Part 3: Space and time*

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