



NSAI
Standards

Irish Standard
I.S. EN ISO 128-1:2020

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

I.S. EN ISO 128-1:2020

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NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

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National Foreword

I.S. EN ISO 128-1:2020 is the adopted Irish version of the European Document EN ISO 128-1:2020, Technical product documentation (TPD) - General principles of representation - Part 1: Introduction and fundamental requirements (ISO 128-1:2020)

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EUROPEAN STANDARD

EN ISO 128-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2020

ICS 01.100.01

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)

This European Standard was approved by CEN on 18 May 2020.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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

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of an identical text or by endorsement, at the latest by December 2020, and conflicting national standards shall be withdrawn at the latest by December 2020.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

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**INTERNATIONAL
STANDARD**

**ISO
128-1**

Second edition
2020-05

**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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CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
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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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