
**Technical drawings — General principles
of presentation —**

**Part 1:
Introduction and index**

*Dessins techniques — Principes généraux de représentation —
Partie 1: Introduction et index*



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 128-1 was prepared by Technical Committee ISO/TC 10, *Technical product documentation*, Subcommittee SC 1, *Basic conventions*.

ISO 128 consists of the following parts, under the general title *Technical drawings — General principles of presentation*:

- *Part 1: Introduction and index*
- *Part 20: Basic conventions for lines*
- *Part 21: Preparation of lines by CAD systems*
- *Part 22: Basic conventions and applications for leader lines and reference lines*
- *Part 23: Lines on construction drawings*
- *Part 24: Lines on mechanical engineering drawings*
- *Part 25: Lines on shipbuilding drawings*
- *Part 30: Basic conventions for views*
- *Part 34: Views on mechanical engineering drawings*
- *Part 40: Basic conventions for cuts and sections*
- *Part 44: Sections on mechanical engineering drawings*
- *Part 50: Basic conventions for representing areas on cuts and sections*

Technical drawings — General principles of presentation —

Part 1: Introduction and index

1 Scope

This part of ISO 128 gives general rules for the execution of technical drawings, as well as presenting the structure of, and an index for, the other parts of ISO 128. In all, ISO 128 specifies the graphical representation of objects on technical drawings with the aim of facilitating the international exchange of information on drawings and ensuring their uniformity in a comprehensive system relating to several technical functions. This part of ISO 128 is applicable to all kinds of technical drawings, including, for example, those used in mechanical engineering and construction (architectural, civil engineering, shipbuilding, etc.). It is applicable to both manual and computer-based drawings. It is not applicable to three-dimensional CAD models.

2 Normative references

The following referenced documents are indispensable for the application 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 31-1, *Quantities and units — Part 1: Space and time*

ISO 129 (all parts), *Technical drawings — Indication of dimensions and tolerances*

ISO 286-1, *ISO system of limits and fits — Part 1: Bases of tolerances, deviations and fits*

ISO 1000, *SI units and recommendations for the use of their multiples and of certain other units*

ISO 1101¹⁾, *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 2553, *Welded, brazed and soldered joints — Symbolic representation on drawings*

ISO 2692²⁾, *Technical drawings — Geometrical tolerancing — Maximum material principle*

ISO 2768-1, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

1) To be published. (Revision of ISO 1101:1983)

2) To be published. (Revision of ISO 2692:1988)

ISO 128-1:2003(E)

ISO 2768-2, *General tolerances — Part 2: Geometrical tolerances for features without individual tolerance indications*

ISO 3040, *Technical drawings — Dimensioning and tolerancing — Cones*

ISO 3098-0, *Technical product documentation — Lettering — Part 0: General requirements*

ISO 5455, *Technical drawings — Scales*

ISO 5457, *Technical product documentation — Sizes and layout of drawing sheets*

ISO 5458, *Geometrical Product Specifications (GPS) — Geometrical tolerancing — Positional tolerancing*

ISO 5459, *Technical drawings — Geometrical tolerancing — Datums and datum-systems for geometrical tolerances*

ISO 6284, *Construction drawings — Indication of limit deviations*

ISO 6428, *Technical drawings — Requirements for microcopying*

ISO 6433, *Technical drawings — Item references*

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

ISO 7200³⁾, *Technical drawings — Title blocks*

ISO 7573:1983, *Technical drawings — Item lists*

ISO 8015, *Technical drawings — Fundamental tolerancing principle*

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

ISO 8785, *Geometrical Product Specification (GPS) — Surface imperfections — Terms, definitions and parameters*

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

ISO 10135, *Technical drawings — Simplified representation of moulded, cast and forged parts*

ISO 10209-1, *Technical product documentation — Vocabulary — Part 1: Terms relating to technical drawings: General and types of drawings*

ISO 11091, *Construction drawings — Landscape drawing practice*

ISO 13715, *Technical drawings — Edges of undefined shape — Vocabulary and indications*

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

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*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 10209-1 apply.

3) To be published. (Revision of ISO 7200:1984)