

	Technical drawings – General principles of presentation Part 30: Basic conventions for views (ISO 128-30 : 2001)	DIN ISO 128-30
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ICS 01.100.01

Technische Zeichnungen – Allgemeine Grundlagen der Darstellung –
Teil 30: Grundregeln für Ansichten (ISO 128-30 : 2001)

This standard, together with
DIN ISO 128-34, May 2002
edition, and DIN ISO 5456-2,
April 1998 edition, supersedes
DIN 6-1, December 1986
edition.

This standard incorporates International Standard

ISO 128-30 Technical drawings – General principles of presentation – Part 30: Basic conventions for views.

A comma is used as the decimal marker.

National foreword

This standard has been prepared by ISO/TC 10 'Technical product documentation', SC 1 'Basic conventions'.

The responsible German body involved in its preparation was the *Normenausschuss Technische Grundlagen* (Fundamentals in Technology Standards Committee), Technical Committee *Technisches Zeichnen*.

The DIN Standards corresponding to the International Standards referred to in clause 2 of the ISO Standard are as follows:

ISO Standard	DIN Standard
ISO 128-24	DIN ISO 128-24
ISO 3098-0	DIN EN ISO 3098-0
ISO 5456-2	DIN ISO 5456-2
ISO 6428	DIN ISO 6428
ISO 10209-1	DIN 199-1
ISO 10209-2	DIN ISO 10209-2
ISO 81714-1	DIN EN ISO 81714-1

Amendments

DIN 6-1, December 1986 edition, has been superseded by the specifications of DIN ISO 128-30, DIN ISO 128-34, and DIN ISO 5456-2.

Previous editions

DIN 36: 1922-10; DIN 6: 1922x-11, 1956-10, 1968-03; DIN 6-1: 1986-12.

National Annex NA

Standards referred to

(and not included in **Normative references** and **Bibliography**)

DIN 199-1	Terminology associated with drawings and item lists – Drawings
DIN EN ISO 3098-0	Technical product documentation – Lettering – Part 0: General requirements (ISO 3098-0 : 1997)
DIN EN ISO 81714-1	Design of graphical symbols for use in the technical documentation of products – Part 1: Basic rules (ISO 81714-1 : 1999)
DIN ISO 5456-2	Technical drawings – Projection methods – Part 2: Orthographic representations (ISO 5456-2 : 1996)
DIN ISO 6428	Technical drawings – Requirements for microcopying (ISO 6428 : 1982)

ISO Standard comprises 9 pages.

Technical drawings – General principles of presentation

Part 30: Basic conventions for views

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 3.

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 part of ISO 128 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 128-30 was prepared by Technical Committee ISO/TC 10, *Technical product documentation*, Subcommittee SC 1, *Basic conventions*.

This first edition is based on ISO 128:1982, clause 2 of which it cancels and replaces.

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

- *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*

The following part is under preparation: *Part 1: Introduction and index*.

Annexes A ,B and C form a normative part of this part of ISO 128.

Introduction

According to the replaced clause 2 of ISO 128:1982 three different methods of presenting views are allowed. In this part of ISO 128, the method of using reference arrows has been selected as the preferred one. The first angle projection method (formerly referred to as method E) and the third angle projection method (formerly referred to as method A) are still to be regarded as normative. Annexes A and B of this part of ISO 128 give basic information on the first and third angle projection methods; ISO 5456-2 specifies the rules in detail.

1 Scope

This part of ISO 128 specifies the general principles for presenting views, applicable to all kinds of technical drawings (mechanical, electrical, architectural, civil engineering, etc.), following the orthographic projection methods specified in ISO 5456-2.

Attention has also been given in this part of ISO 128 to the requirements of reproduction, including microcopying in accordance with ISO 6428.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 128. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 128 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 128-24:1999, *Technical drawings — General principles of presentation — Part 24: Lines on mechanical engineering drawings*.

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

ISO 5456-2, *Technical drawings — Projection methods — Part 2: Orthographic representations*.

ISO 6428, *Technical drawings — Requirements for microcopying*.

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

ISO 10209-2, *Technical product documentation — Vocabulary — Part 2: Terms relating to projection methods*.

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

3 Terms and definitions

For the purposes of this part of ISO 128, the terms and definitions given in ISO 10209-1 and ISO 10209-2 apply.

4 General

The most informative view of an object shall be used as the front or principal figure, taking into consideration, for example, its functioning position, position of manufacturing or mounting.

Each view, with the exception of the front or principal figure (view, plan, principal figure), shall be given clear identification with a capital letter, repeated near the reference arrow needed to indicate the direction of viewing for the