

INTERNATIONAL STANDARD

ISO
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Technical drawings — General principles of presentation —

Part 21:

Preparation of lines by CAD systems

*Dessins techniques — Principes généraux de représentation —
Partie 21: Préparation des traits par systèmes de CAO*



Reference number
ISO 128-21:1997(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.

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.

International Standard ISO 128-21 was prepared by Technical Committee ISO/TC 10, *Technical drawings, product definition and related documentation*, Subcommittee SC 1, *Basic conventions*.

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 23: *Lines on construction drawings*

Further parts of ISO 128 are planned, covering other general principles of presentation including those for the application of lines within drawings of various technical fields.

Annex A of this part of ISO 128 is for information only.

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Introduction

Today the appearance of non-continuous lines on technical drawings prepared by computer-aided design (CAD) systems varies considerably between different systems. For that reason the standardized rules established by this International Standard, in addition to those in ISO 128-20, are intended as an aid for the consistent appearance of line elements calculated by computers and drawn by plotters.

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Technical drawings — General principles of presentation —

Part 21:

Preparation of lines by CAD systems

1 Scope

This part of ISO 128 specifies procedures for the calculation of the most important basic types of non-continuous lines according to ISO 128-20 and their line elements.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 128. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 128 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 128-20:1996, *Technical drawings — General principles of presentation — Part 20: Basic conventions for lines*.

ISO 5455:1979, *Technical drawings — Scales*.

3 Definitions

For the purposes of this part of ISO 128 the definitions given in ISO 128-20 apply.

4 Calculation of line elements

4.1 Line type No. 02 (dashed line)

See figure 1 for the configuration of this type of line.