

INTERNATIONAL
STANDARD

ISO
16018

First edition
1999-07-15

**Technical drawings — Numerically
controlled draughting machines —
Draughting media and tools for vector
plotters**

*Dessins techniques — Machines à dessiner à commande numérique —
Supports et outils de traçage pour traceurs de vecteurs*



Reference number
ISO 16018:1999(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.

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.

International Standard ISO 16018 was prepared by Technical Committee ISO/TC 10, *Technical drawings, product definition and related documentation*, Subcommittee SC 9, *Media equipment for drawing and related documentation*.

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Printed in Switzerland

Technical drawings — Numerically controlled draughting machines — Draughting media and tools for vector plotters

1 Scope

This International Standard gives recommendations on the selection of combinations of draughting tools and media for vector plotters. It is only applicable to the draughting tools and media covered herein.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard 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 9177-2:1989, *Mechanical pencils — Part 2: Black leads — Classification and dimensions.*

ISO 9957-1:1992, *Fluid draughting media — Part 1: Water-based India ink — Requirements and test conditions.*

ISO 9957-2:1995, *Fluid draughting media — Part 2: Water-based non-India ink — Requirements and test conditions.*

ISO 9958-1:1992, *Draughting media for technical drawings — Draughting film with polyester base — Part 1: Requirements and marking.*

ISO 9961:1992, *Draughting media for technical drawings — Natural tracing paper.*

ISO 12756:1998, *Drawing and writing instruments — Ball point pens and roller ball pens — Vocabulary.*

3 Terms and definitions

For the purposes of this International Standard, the following terms and definitions apply.

3.1 Output form

3.1.1

plot

graphic image created by a numerically controlled draughting machine on draughting media

3.1.2

check plot

plot for verification of completeness and absence of mistakes with no special requirements with respect to line quality