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## Technical drawings — Edges of undefined shape — Vocabulary and indications

*Dessins techniques — Arêtes de forme non définie — Vocabulaire et indications sur les dessins*



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

International Standard ISO 13715 was prepared by Technical Committee ISO/TC 10, *Technical drawings, product definition and related documentation*, Subcommittee SC 6, *Mechanical engineering documentation*.

This second edition cancels and replaces the first edition (ISO 13715:1994), which has been technically revised.

Annex A forms a normative part of this International Standard. Annexes B and C are for information only.

## Introduction

In technical drawings, the ideal geometric shape is represented without any deviation and, in general, without consideration of the states of the edges. Nevertheless, for many purposes (the functioning of a part, or out of safety considerations, for example) particular states of edges need to be indicated. Such states include those of external edges free from burr, sharp edges or those with a burr of limited size, and internal edges with a passing. In principle, all the edges of a part should be produced in their requisite states. In practice, unless those states are specified in the technical drawing or related documentation, the part will be delivered direct from the machine without the required treatment.

This International Standard is aimed at enabling this situation to be avoided, through specification of guidelines for the indication and graphic representation of the states of edges in technical drawings.

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# Technical drawings — Edges of undefined shape — Vocabulary and indications

## 1 Scope

This International Standard defines the terms defining the states of edges and specifies rules for representing states of edges of undefined shape in technical drawings.

The proportions and dimensions of the graphical symbols to be used are also specified.

In cases where the geometrically defined shape of an edge ( $1 \times 45^\circ$ , for example) is required, the general dimensioning principles given in ISO 129-1 apply.

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

ISO 128-22, *Technical drawings — General principles of presentation — Part 22: Basic conventions and applications for leader lines and reference lines*.

ISO 129-1—<sup>1)</sup>, *Technical drawings — Indication of dimensions and tolerances — Part 1: General principles*.

ISO 3098-0:1997, *Technical product documentation — Lettering — Part 0: General requirements*.

ISO 81714-1:1999, *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 International Standard, the following terms and definitions apply.

### 3.1

#### **edge**

intersection of two surfaces

NOTE See annex C for further information.

1) To be published. (Partial revision of ISO 129:1985)