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First edition
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Technical drawings — Simplified representation of the assembly of parts with fasteners —

Part 1: General principles

*Dessins techniques — Représentation simplifiée d'assemblage de pièces
au moyen d'éléments de fixation —*

Partie 1: Principes généraux

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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.

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 5845-1 was prepared by Technical Committee ISO/TC 10, *Technical drawings, product definition and related documentation*, Subcommittee SC 6, *Mechanical engineering documentation*.

This first edition of ISO 5845-1 is a partial revision of ISO 5261:1981, clause 3 of which has been technically revised.

ISO 5845 consists of the following parts, under the general title *Technical drawings — Simplified representation of the assembly of parts with fasteners*:

- Part 1: *General principles*
- Part 2: *Rivets for aerospace equipment*

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Introduction

ISO 5845 has been devised to provide a universal means of communication among the various parties involved in the design and manufacture, in general, as well as the installation of fasteners.

The representation of fasteners on technical drawings should conform to one of the following two methods, which must meet requirements for microcopying and reproduction:

- a) conventional drawing of fasteners (according to ISO 128); this method is particularly suitable for drawings containing a small number of fasteners, or when the use of symbols may not provide complete understanding;
- b) symbolic representation; this method is best suited to drawings containing a large number of fasteners (see clauses 4 and 5).

Requirements within industries vary considerably; in recognition of this fact, ISO 5845 is presented in two parts. Part 1 is mainly devoted to structural metal work. Part 2 is mainly devoted to aerospace equipment. Both are recommended for application to other fields as well.

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Technical drawings — Simplified representation of the assembly of parts with fasteners —

Part 1: General principles

1 Scope

This part of ISO 5845 establishes general principles for the simplified representation of holes, bolts (screws), rivets, etc. on technical drawings.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 5845. 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 5845 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 128:1982, *Technical drawings — General principles of presentation.*

ISO 129:1985, *Technical drawings — Dimensioning — General principles, definitions, methods of execution and special indications.*

ISO 5845-2:1995, *Technical drawings — Simplified representation of the assembly of parts with fasteners — Part 2: Rivets for aerospace equipment.*

ISO 10209-1:1992, *Technical product documentation — Vocabulary — Part 1: Terms relating to technical drawings: general and types of drawings.*

ISO 10209-2:1993, *Technical product documentation — Vocabulary — Part 2: Terms relating to projection methods.*

3 Definitions

For the purposes of this part of ISO 5845, the definitions given in ISO 10209-1 and ISO 10209-2 apply.