

INTERNATIONAL STANDARD

ISO
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Screwdrivers for slotted-head screws —

Part 2:

General requirements, lengths of blades and
marking of hand-operated screwdrivers

Tournevis pour vis à tête fendue —

*Partie 2: Spécifications générales, longueurs des lames et marquage des
tournevis à main*



Reference number
ISO 2380-2:1992(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 2380-2 was prepared by Technical Committee ISO/TC 29, *Small tools*, Sub-Committee SC 10, *Spanners and wrenches*.

ISO 2380 consists of the following parts, under the general title *Screwdrivers for slotted-head screws*:

- *Part 1: Tips for hand- and machine-operated screwdrivers*
- *Part 2: General requirements, lengths of blades and marking of hand-operated screwdrivers*

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Screwdrivers for slotted-head screws —

Part 2:

General requirements, lengths of blades and marking of hand-operated screwdrivers

1 Scope

This part of ISO 2380 specifies the general requirements, lengths of blades and marking of hand-operated screwdrivers for slotted-head screws as specified in ISO 4759-1.

Requirements for the blade tips are given in ISO 2380-1.

NOTE 1 Screwdrivers for slotted-head screws are listed under number 101 in ISO 1703:1983, *Assembly tools for screws and nuts — Nomenclature*.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 2380. 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 2380 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 272:1982, *Fasteners — Hexagon products — Widths across flats*.

ISO 2380-1:1989, *Screwdrivers for slotted-head screws — Part 1: Tips for hand- and machine-operated screwdrivers*.

ISO 4759-1:1978, *Tolerances for fasteners — Part 1: Bolts, screws and nuts with thread diameters between 1,6 (inclusive) and 150 mm (inclusive) and product grades A, B and C*.

3 General requirements

The material, shape and finish of the handle shall be suitable for the normal conditions of use.

The handle and the blade shall not be rough nor have faults which could cause accidents during use of the screwdriver.

The torque requirement of the blade-to-handle connection shall be as specified in ISO 2380-1.

4 Blade lengths

The blade lengths are specified in table 1 in relation to the tip dimensions of the screwdrivers (see figure 1). Four series of lengths are provided.

NOTE 2 Figures 1 and 2 are given as examples and are not intended to influence the manufacturer's design.

For tips of dimensions 1 mm × 5,5 mm and above, the screwdriver may have a hexagonal driver near the handle (see figure 2): the width across flats s and the respective tolerances shall be in conformity with ISO 272 and ISO 4759-1. The dimension h_{\min} is determined using the formula

$$h_{\min} = 0,5 s$$

5 Marking

The marking of dimensions a and b and the trademark shall be legible and indelible under normal conditions of use. Indication of the blade length is optional, but when given it shall be the nominal dimension shown in table 1.

Table 1 — Screwdriver blades for slotted-head screws

Dimensions in millimetres

| a | b | l $\begin{smallmatrix} +5 \\ 0 \end{smallmatrix}$ | | | |
|-----|-----|--|-----|-----|-----|
| | | Series | | | |
| | | A | B | C | D |
| 0,4 | 2 | | 40 | | |
| | 2,5 | | 50 | 75 | 100 |
| 0,5 | 3 | | 50 | 75 | 100 |
| 0,6 | 3,5 | 25 (35) | 75 | 100 | 125 |
| 0,8 | 4 | 25 (35) | 75 | 100 | 125 |
| 1 | 5,5 | 25 (35) | 100 | 125 | 150 |
| | 6,5 | 25 (35) | 100 | 125 | 150 |
| 1,2 | 8 | 25 (35) | 125 | 150 | 175 |
| | 8 | | 125 | 150 | 175 |
| 1,6 | 10 | | 150 | 175 | 200 |
| | 12 | | 150 | 200 | 250 |
| 2,5 | 14 | | 200 | 250 | 300 |

NOTE — Dimensions in brackets are non-preferred.

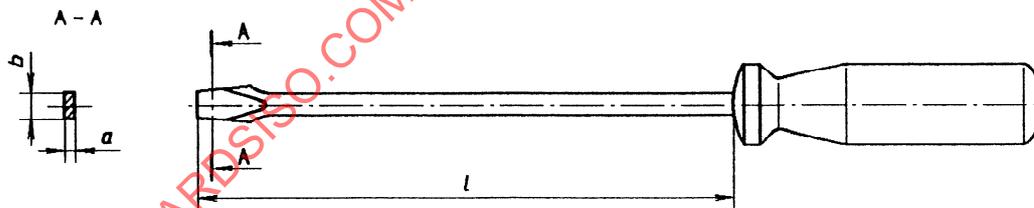


Figure 1

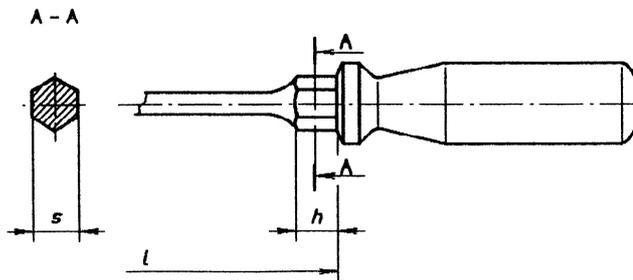


Figure 2

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