
**Assembly tools for screws and nuts —
Double-ended wrenches — Size pairing**

*Outils de manœuvre pour vis et écrous — Clés doubles de serrage —
Appariement des ouvertures*

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ISO 1085:1999

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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.

International Standard ISO 1085 was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 10, *Assembly tools for screws and nuts, pliers and nippers*.

This third edition cancels and replaces the second edition (ISO 1085:1986), which has been technically revised.

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Assembly tools for screws and nuts — Double-ended wrenches — Size pairing

1 Scope

This International Standard specifies the size pairing of double-ended wrenches. It applies not only to flat wrenches for nuts but also to all wrenches with two fixed ends for screws and nuts, such as socket wrenches.

This International Standard specifies preferred pairings of widths across flats in accordance with ISO 272 (see Table 1).

It also gives in Table 2 other pairings still widely used but non-preferred.

2 Normative reference

The following normative document contains 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 edition of the normative document 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 272, *Fasteners — Hexagon products — Widths across flats*.

3 Preferred pairings

See Figure 1 and Table 1.

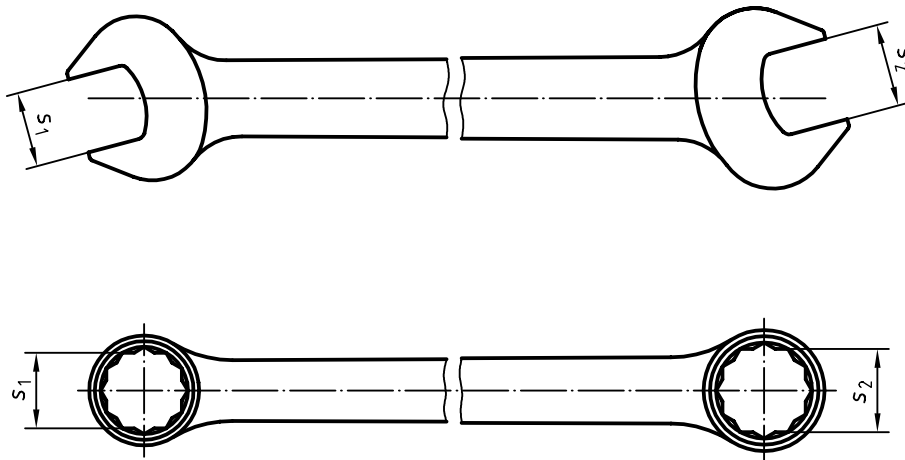


Figure 1 — Double-ended wrenches

Table 1 — Double-ended wrenches preferred pairings

Dimensions in millimetres

$s_1 \times s_2$
3,2 × 4
4 × 5
5 × 5,5
5,5 × 7
7 × 8
8 × 10
10 × 11
10 × 13
11 × 13
13 × 15
13 × 16
15 × 16
16 × 18
18 × 21
21 × 24
24 × 27
27 × 30
30 × 34
34 × 36
36 × 41
41 × 46
46 × 50
50 × 55
55 × 60

4 Non-preferred pairings

See Figure 1 and Table 2.

Table 2 — Non-preferred pairings that are still widely used

Dimensions in millimetres

$s_1 \times s_2$
6 × 7
8 × 9
12 × 13
12 × 14
13 × 14
13 × 17
14 × 15
14 × 17
15 × 18
16 × 17
17 × 19
18 × 19
19 × 22
19 × 24
20 × 22
21 × 22
21 × 23
22 × 24
24 × 26
24 × 30
25 × 28
27 × 29
27 × 32
30 × 32
30 × 36
32 × 34
32 × 36

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