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# International Standard



# 1085

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

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## 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*

Second edition — 1986-10-15

ITh STANDARD PREVIEW  
(standards.iteh.ai)

[ISO 1085:1986](https://standards.iteh.ai/catalog/standards/sist/9620027c-52fe-4798-bfde-a5f34501e15a/iso-1085-1986)

<https://standards.iteh.ai/catalog/standards/sist/9620027c-52fe-4798-bfde-a5f34501e15a/iso-1085-1986>

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UDC 621.883.13 : 621.882.17

Ref. No. ISO 1085-1986 (E)

Descriptors : tools, assembly tools, hand tools, wrenches, dimensions.

## 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 1085 was prepared by Technical Committee ISO/TC 29, *Small tools*.

This second edition cancels and replaces the first edition (ISO 1085-1974), of which it constitutes a technical revision. <https://standards.iteh.ai/catalog/standards/sist/9620027c-52fe-4798-bfde-a5f34501e15a/iso-1085-1986>

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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

## 1 Scope and field of application

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 recommended pairings of widths across flats from ISO 272.

It also gives in an annex a table of other pairings and inch pairings, not related to the widths across flats of ISO 272, still widely used but less recommended.

## 2 Reference

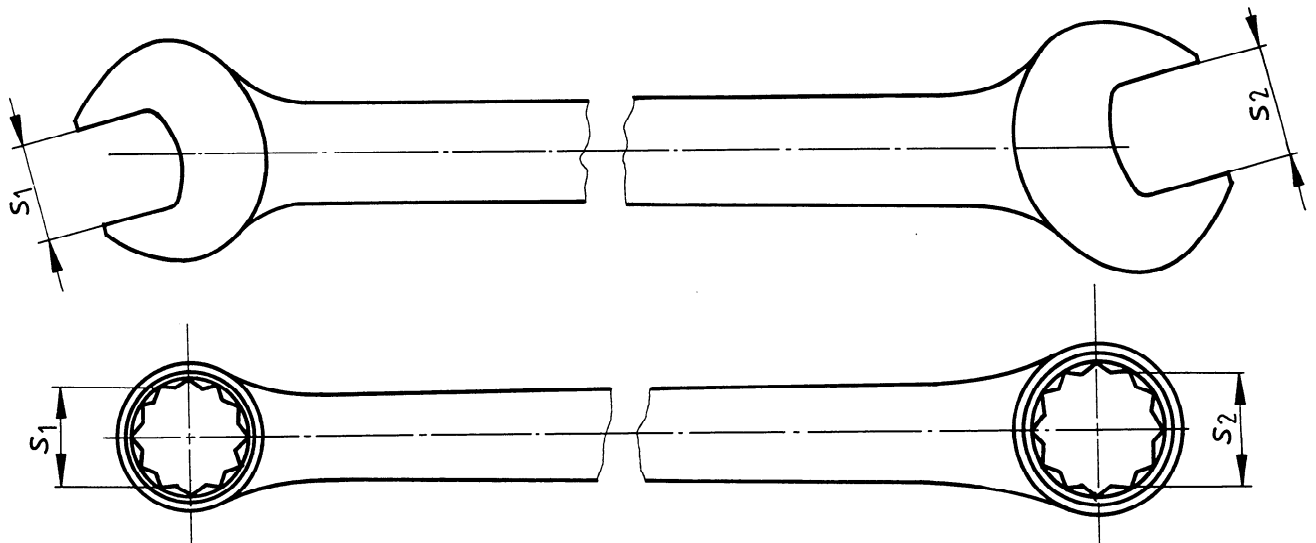
ISO 272, *Fasteners – Hexagon products – Widths across flats.*

## 3 Recommended 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 *
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

\* Recommended pairings newly included.



## Annex

### Pairings not related to the widths across flats of ISO 272

#### A.1 Less recommended pairings that are still widely used

Dimensions in millimetres

$s_1 \times s_2$
6 × 7
8 × 9
9 × 11
12 × 13
13 × 14
13 × 16
13 × 17*
14 × 15
15 × 18
16 × 17
17 × 19*
18 × 19
19 × 22*
20 × 22
21 × 22
21 × 23
22 × 24*
24 × 30
25 × 28
27 × 32
30 × 32*
32 × 34
32 × 36*

\* Pairings that were recommended standardized in the first edition of this International Standard.

#### A.2 Inch pairings

Dimensions in inches

$s_1 \times s_2$
1/4 × 5/16
3/16 × 1/4 *
5/16 × 11/32*
5/16 × 3/8 *
3/8 × 7/16*
7/16 × 1/2 *
7/16 × 9/16*
1/2 × 9/16*
9/16 × 5/8 *
3/4 × 13/16
5/8 × 11/16*
5/8 × 3/4 *
11/16 × 3/4 *
11/16 × 13/16*
3/4 × 7/8 *
13/16 × 7/8 *
7/8 × 15/16*
7/8 × 1
15/16 × 1
15/16 × 1 1/16
15/16 × 1 1/8 *
1 × 1 1/16
1 × 1 1/8
1 1/16 × 1 1/8
1 1/16 × 1 1/4
1 1/8 × 1 5/16*
1 1/4 × 1 5/16
1 1/4 × 1 3/8
1 1/4 × 1 7/16
1 5/16 × 1 1/2 *
1 7/16 × 1 1/2
1 7/16 × 1 5/8
1 1/2 × 1 11/16
1 11/16 × 1 7/8 *
1 13/16 × 2

\* Pairings that were recommended standardized in the first edition of this International Standard.