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ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION

R 1085

COMBINATIONS OF DOUBLE ENDED WRENCH GAPS

1st EDITION

June 1969

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BRIEF HISTORY

The ISO Recommendation R 1085, *Combinations of double ended wrench gaps,* was drawn up by Technical Committee ISO/TC 29, *Small tools,* the Secretariat of which is held by the Association Française de Normalisation (AFNOR).

Work on this question led to the adoption of a Draft ISO Recommendation.

In June 1968, this Draft ISO Recommendation (No. 1631) was circulated to all the ISO Member Bodies for enquiry. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Australia	Israel	Spain
Austria	Italy	Sweden
Belgium	Japan	Switzerland
Czechoslovakia	Korea, Rep. of	Thailand
Finland	Netherlands	Turkey
France	Norway	U.A.R.
Germany	Peru	United Kingdom
Hungary	Poland	U.S.S.R.
India	Portugal	Yugoslavia
Ireland	South Africa, Rep. of	

No Member Body opposed the approval of the Draft.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in June 1969, to accept it as an ISO RECOMMENDATION.

ISO Recommendation R 1085 June 1969

COMBINATIONS OF DOUBLE ENDED WRENCH GAPS

1. SCOPE

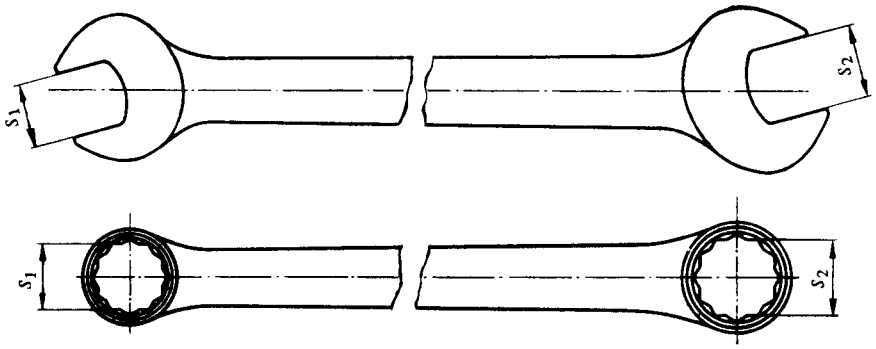
This ISO Recommendation relates to combinations of double ended wrench gaps. Its field of application covers not only flat wrenches for nuts but also all wrenches with two fixed ends for screws and nuts, such as socket wrenches for example.

It essentially includes two numerical tables, the first relating to wrench gaps in millimetres, the second to wrench gaps in inches according to ISO Recommendation R 272, *Hexagon bolts and nuts – Widths across flats, heights of heads, thicknesses of nuts.*

The combinations of wrench gaps are given according to two series, 1 and 2, equally recommended; both series supplement one another and all widths across flats of ISO Recommendation R 272 are represented in them.

It also provides in an annex for other combinations, less recommended though in common use, which include, at least to some extent, other wrench gaps than those resulting from the application of ISO Recommendation R 272.

2. RECOMMENDED COMBINATIONS OF WRENCH GAPS



Metric series

Dimensions in millimetres

$s_1 \times s_2$	
Series 1	Series 2
3.2 × 4	
	4 × 5
5 × 5.5	
	5.5 × 7
7 × 8	
	8 × 10
10 × 11	
	11 × 13
	12 × 14
13 × 17	
	17 × 19
19 × 22	
	22 × 24
24 × 27	
	27 × 30
30 × 32	
	32 × 36
36 × 41	
	41 × 46
46 × 50	
	50 × 55
55 × 60	

Inch series

Dimensions in inches

$s_1 \times s_2$	
Series 1	Series 2
	$\frac{1}{8} \times \frac{5}{32}$
$\frac{3}{16} \times \frac{1}{4}$	
$\frac{5}{16} \times \frac{11}{32}$	
$\frac{3}{8} \times \frac{7}{16}$	
	$\frac{7}{16} \times \frac{1}{2}$
$\frac{1}{2} \times \frac{9}{16}$	
	$\frac{9}{16} \times \frac{5}{8}$
$\frac{5}{8} \times \frac{11}{16}$	
	$\frac{5}{8} \times \frac{3}{4}$
	$\frac{11}{16} \times \frac{3}{4}$
$\frac{11}{16} \times \frac{13}{16}$	
$\frac{3}{4} \times \frac{7}{8}$	
	$\frac{13}{16} \times \frac{7}{8}$
$\frac{7}{8} \times \frac{15}{16}$	
	$\frac{15}{16} \times 1\frac{1}{8}$
$1\frac{1}{8} \times 1\frac{5}{16}$	
$1\frac{5}{16} \times 1\frac{1}{2}$	
$1\frac{11}{16} \times 1\frac{7}{8}$	
$2\frac{1}{16} \times 2\frac{1}{4}$	