
INTERNATIONAL STANDARD



3318

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

Assembly tools for screws and nuts — Open-end double-head engineers' wrenches, double-head box wrenches and combination wrenches — Maximum outside dimensions of heads

Outils de manœuvre pour vis et écrous — Clés à fourche doubles, polygonales doubles, et clés mixtes — Dimensions maximales d'encombrement des têtes

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

International Standard ISO 3318 was drawn up by Technical Committee ISO/TC 29, *Small tools*, and circulated to the Member Bodies in November 1973.

It has been approved by the Member Bodies of the following countries :

Austria	Hungary	South Africa, Rep. of
Belgium	India	Spain
Bulgaria	Ireland	Switzerland
Chile	Israel	Thailand
Czechoslovakia	Italy	Turkey
Egypt, Arab Rep. of	Mexico	U.S.S.R.
France	Netherlands	Yugoslavia
Germany	Romania	

The Member Bodies of the following countries expressed disapproval of the document on technical grounds :

Sweden
United Kingdom

Assembly tools for screws and nuts – Open-end double-head engineers’ wrenches, double-head box wrenches and combination wrenches – Maximum outside dimensions of heads

1 SCOPE AND FIELD OF APPLICATION

This International Standard lays down the maximum outside dimensions of heads for open-end double-head engineers’ wrenches, double-head box wrenches and combination wrenches, listed in ISO 1703, excluding wrench No. 12.

2 REFERENCES

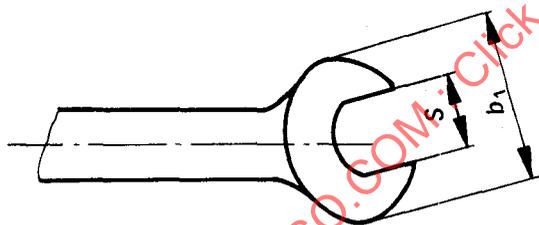
ISO 1085, *Combinations of double-ended wrench gaps.*

ISO 1703, *Assembly tools for screws and nuts – Nomenclature.*

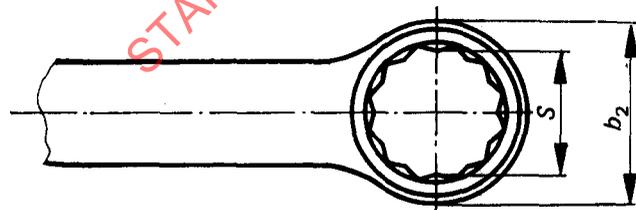
3 MAXIMUM OUTSIDE DIMENSIONS OF HEADS

Dimensions in millimetres

Open-end double-head engineers’ wrench



Double-head box wrench



S	b_1 max. [(2,1 S) + 7]	b_2 max. [(1,5 S) + 2]
2,5	12	6
3,2	14	7
4	15	8
5	18	10
5,5	19	10,5
6	20	11
7	22	12,5
8	24	14
9	26	15,5
10	28	17
11	30	18,5
12	32	20
13	34	21,5
14	36	23
17	43	27,5
19	47	30,5
22	53	35
24	57	38
27	64	42,5
30	70	47
32	74	50
36	83	56
41	93	63,5
46	104	71
50	112	77
55	123	84,5
60	133	92

NOTE – The drawings do not necessarily indicate the shape of the wrench heads.