

Wrench Size Chart - across flats and hex keys, metric and inch

Across flats s (wrench size) for hex bolts and nuts to ISO 4014 / 4017 / 4032 with the older DIN 931 / 933 / 934 value where it differed; hex key sizes for socket head cap screws ISO 4762 and ASME B18.3; inch hex cap screws ASME B18.2.1.

EKINSUN LTD - heads and nuts machined to any across-flats, MOQ 1 - <https://www.ekinsun.com/custom-fasteners/wrench-size-chart/>

Metric: across flats ISO / DIN and hex key (mm)

Thread	ISO s	DIN s	Hex key	Thread	ISO s	DIN s	Hex key
M1.6	3.2	-	1.5	M22	34	32	17
M2	4	-	1.5	M24	36	-	19
M2.5	5	-	2	M27	41	-	19
M3	5.5	-	2.5	M30	46	-	22
M4	7	-	3	M33	50	-	24
M5	8	-	4	M36	55	-	27
M6	10	-	5	M39	60	-	-
M8	13	-	6	M42	65	-	-
M10	16	17	8	M45	70	-	-
M12	18	19	10	M48	75	-	-
M14	21	22	12	M52	80	-	-
M16	24	-	14	M56	85	-	-
M18	27	-	14	M60	90	-	-
M20	30	-	17	M64	95	-	-

Inch: across flats and hex key

Size	Across flats	mm	Hex key	mm
#4	-	-	3/32	2.38
#6	-	-	7/64	2.78
#8	-	-	9/64	3.57
#10	-	-	5/32	3.97
1/4	7/16	11.11	3/16	4.76
5/16	1/2	12.70	1/4	6.35
3/8	9/16	14.29	5/16	7.94
7/16	5/8	15.88	3/8	9.53
1/2	3/4	19.05	3/8	9.53
9/16	13/16	20.64	-	-
5/8	15/16	23.81	1/2	12.70
3/4	1-1/8	28.58	5/8	15.88
7/8	1-5/16	33.34	3/4	19.05
1	1-1/2	38.10	3/4	19.05
1-1/8	1-11/16	42.86	-	-
1-1/4	1-7/8	47.63	-	-
1-3/8	2-1/16	52.39	-	-
1-1/2	2-1/4	57.15	-	-

Metric <-> SAE wrench swaps

Metric	SAE	SAE in mm	Gap mm
8 mm	5/16 in	7.94	0.06
10 mm	3/8 in	9.53	0.47
11 mm	7/16 in	11.11	0.11
13 mm	1/2 in	12.70	0.30
14 mm	9/16 in	14.29	0.29
16 mm	5/8 in	15.88	0.12
17 mm	11/16 in	17.46	0.46
19 mm	3/4 in	19.05	0.05
21 mm	13/16 in	20.64	0.36
22 mm	7/8 in	22.23	0.23
24 mm	15/16 in	23.81	0.19
27 mm	1-1/16 in	26.99	0.01

30 mm	1-3/16 in	30.16	0.16
32 mm	1-1/4 in	31.75	0.25
36 mm	1-7/16 in	36.51	0.51

Rule for swaps: within 0.15 mm the wrenches are interchangeable; at 0.3 mm the wrench rounds the corners under torque; beyond that it does not fit. DIN -> ISO changes: M10 17 -> 16, M12 19 -> 18, M14 22 -> 21, M22 32 -> 34. The current edition of each standard governs.