

Assignment of spanner sizes to screws

Spanner opening SW		Nominal size of wrench, mm	Metric sizes																Nominal Size of Wrench	American sizes							
			Thread diameters																	Thread diameters · American standard ANSI							
			DIN ISO 272				ISO R 272 1968		German standard DIN				French standard		Swedish standard					Nuts				Bolts and screws			
Minimum dimension mm ¹⁾	Maximum dimension mm ²⁾	Standard hexagon	Large hexagon	Screw with flange	Nut with flange	Normal hexagon	Small hexagon	Normal hexagon ²⁾	Large hexagon ³⁾	Small hexagon ⁴⁾	Screw with flange ⁵⁾	Nut with flange ⁶⁾	NFE 27-111-1930 ⁹⁾	Metric, large ⁸⁾ SWS 1412	Metric, small ⁸⁾ SWS 1414	Whitworth, large ⁸⁾ SWS 1413	Whitworth, small ⁸⁾ SWS 1415	a Normal (No)	b Square (No)	c Heavy (No)	d Machine Screw Nuts (No)	e Normal (No)	f Heavy (No)	g Machine Screws (No)	h Square Head Set Screws (No)		
3.22	3.28	3.2	1.6			1.6		1.6																			
3.23	3.35																										
3.52	3.60	3.5																									
4.01	4.14													2.5													
4.02	4.12	4	2			2		2								2.3					0.1						
4.52	4.62	4.5														2.6											
4.83	4.95																										
5.02	5.12	5	2.5			2.5		2.5					3			3						2.3			3-4-5	10	
5.21	5.33																										
5.52	5.62	5.5	3			3		3																			
5.59	5.72																										
6.00	6.13																										
6.03	6.15	6						3.5					3.5	3		3.5						4			6-8	1/4	
6.40	6.53																										
6.82	6.97																										
7.03	7.15	7	4		5	4		4					4-4,5	3.5	4												
7.19	7.32																										
7.62	7.77																										
8.03	8.18																										
8.03	8.15	8	5		6	5	5	5		6	5	5	5	4	5												
8.41	8.56																										
8.81	8.97																										
9.03	9.15	9						(5)7					5.5	5								8					
9.60	9.75																										
10.04	10.19	10	6		8	6	6	6		8	6	6	6		6							10	1/4*		1/4	3/8	
10.39	10.55																										
11.04	11.19	11	7				7		7					6	7		1/4									7/16	
11.18	11.33																										
11.99	12.14																										
12.04	12.24	12						8					7		8												
12.80	12.95																										
13.04	13.24	13	8		10	8	8		8	10	8	8				1/4	5/16										
13.60	13.77																										
14.05	14.27	14						10	(8)7				8	8													
14.38	14.55																										
15.05	15.27	15			12	10						10	10		10	5/16	3/8										
15.18	15.36																										
15.98	16.15																										
16.05	16.27	16	10	SPM10 M14				10		12	12		9														
16.77	16.95																										
17.05	17.30	17					10	12	(10)	(12)			10	10													
17.58	17.75																										
18.05	18.30	18	12	SPM12	14	12				12	16	14	12		12	3/8	7/16										
19.06	19.36	19					12	14	(12)	(16)			11														
19.18	19.38																										
19.97	20.17																										
20.06	20.36	20																									
20.78	20.98																										
20.86	21.16	20.8		SPM14 M18																							
21.06	21.36	21	14	12	16	14			14	12		16	14	12		14	7/16	1/2									
22.06	22.36	22					14	16	(14)	12					12	14											
22.35	22.56																										
23.06	23.36	23												14			1/2					1/2			7/8		
23.98	24.21																										
24.06	24.36	24	16	14		16	16	18	16		20	16				16		5/8				5/8					
24.76	24.99																										
25.06	25.36	25																									
25.55	25.78																										
26.08	26.48	26		SPM18									16														
27.08	27.48	27	18	16	20		18	20	18	16		20		16	18												
27.13	27.36																										
28.08	28.48	28														5/8	3/4					5/8					
28.75	29.01																										
29.08	29.48	29											18										3/4			1 1/8	
30.08	30.48	30	20	18		20	20	22	20		24	20				20											
30.34	30.59																										
31.93	32.18																										
32.08	32.48	32					22	24	(22)	20			20		18	20										1 1/4	
33.08	33.48	33															3/4	7/8									
33.53	33.81																										
34.08	34.48	34	22	20					22	20						24											
35.10	35.60												22														
35.13	35.41																										
36.10	36.60	36	24	22			24	27	24	22	30			22	24											1 3/8	