## Comparison Table of Metric, American and British Sizes for Spanner Openings and Thread Diameters (Nominal Size = Size to be ordered)

Metric Sizes									American Sizes												British Sizes				
Spanner Openings Ø-Thread									Spanr	ner Open	ings				Ø-Thre	ad			Ø-Thread		Spanner- Openings				
				metric sizes ISO R272 to DIN 1968								ISO R 272 1962		Unified A Standard			American Standard B 18.2 1972								
Mominal Size	minimum size – mm to DIN 475/2	maximum size – mm to DIN 475/2, row 1	maximum size – mm to DIN 475/2, row 2	standard hexagon	small hexagon	large hexagon	standard hexagon	small hexagon	Nominal Size	decimal – inch	decimal – metric	Bolts	Nots	normal series BS 1768	heavy series BS 1769	finished thick series	regular square series	heavy series	finished and regular bolt gaseries, hex. head cap screws		MAKE Nominal Size	BS 916, BS 1083	decimal – inch	decimal – metric	
3 3,2	3,02 3,22 3,52	3,08 3,28 3,60		1,2 1,4 1,6 1,7		_	1,6		1/8	.1250	3,18	No. 2					_		4 67		10 BA 9 BA		.11 <i>7</i>	2,97 3,33	
3,5 4 4,5	4,02 4,52	4,12 4,62		2 2,3			2		5/32 3/16	.1563	3,97 4,76	No. 3, 4, 5	No. 0, 1 No. 2, 3								8 BA 7 BA		.152	3,86 4,37	
5,5 6	5,02 5,52 6,03	5,12 5,62 6,15		2,5 2,6 3 3,5			3		7/32 15/64	.2031 .2188 .2344	5,16 5,56 5,95										6 BA 5 BA 4 BA		.193 .220 .248	4,90 5,59 6,30	
7	7,03	7,15		4			4		1/4 17/64 9/32	.2500 .2656 .2813	6,35 6,75 7,14	No. 6, 8	No. 4						No. 10		3 BA 3/32	3/32	.256 .282 .297	7,16 7,54	
9	9,03	9,15	9,18	5	6		5		5/16 11/32 3/8	.3125 .3438 .3750	7,94 8,73 9,52	No. 10, 12	No. 5, 6 No. 8 No. 10								1/8 1 BA	3/16	.324 .340 .365	8,23 8,64 9,27	
10	10,04	10,19	10,24	6 7	8		6 7		13/32 7/16	.4062 .4375	10,32	1/4	No.12 1/4	1/4		1/4	1/4	1,	1/4		0 BA 3/16	1/4	.413	10,49	
12 13	12,04 13,04 14,05	12,24 13,24 14,27	12,30 13,30 14,35	8	10		8	10	1/2 17/32 9/16	.5000 .5313	12,70 13,49 14,29	5/16 3/8	5/16 3/8	5/16 3/8		5/16 3/8	5/16	5/16	5/16 3/8		1/4	5/16	.525	13,33	
15 16	15,05 16,05 17,05	15,27 16,27 17,30	15,35 16,35 17,40	(motor cars)	12		10	12	19/32 5/8 21/32	.5938 .6250	15,08 15,87 16,67	7/16		7/16			3/8		7/16		5/16	3/8	.600	15,24	
18 19	18,05 19,06	18,30 19,36	18,40 19,46	12	16		12		11/16 3/4	.6875 .7500	17,46 19,05	1/2	7/16 1/2	1/2		7/16 1/2	7/16	3/8 7/16	1/2		3/8	7/16	.710	18,03	
20 20,8 21	20,06 20,86 21,06	20,36 21,16 21,36	20,46 21,26 21,46						25/32 13/16 7/8	.7813 .8125 .8750	19,84 20,64 22,22	9/16	9/16	9/16	1/2	9/16	1/2 9/16	1/2	9/16	1/2	7/16	1/2	.820	20,83	
22 23 24	22,06 23,06 24,06	22,36 23,36 24,36	22,46 23,46 24,46	14 16	20	12	14 16	16 18	15/16 31/32 1	.9375 .9688 1.0000	23,81 24,61 25,40	5/8	5/8	5/8		5/8	5/8	9/16	5/8		1/2	9/16	.920	23,37	
25 26 27	25,06 26,08 27,08	25,36 26,48 27,48	25,46 26,58 27,58	18		16	18	20	1.1/16	1.0625	26,99				5/8			5/8		5/8	9/16 5/8	5/8 11/ <sub>16</sub>	1.010 1.100	25,65 27,94	
28 29 30	28,08 29,08 30,08	28,48 29,48 30,48	28,58 29,58 30,58	20	24		20	22	1.1/8 1.3/16 1.1/4	1.1250 1.1875 1.2500	28,57 30,16 31,75	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	11/16	3/4	1.200	30,48	
32 33 36	32,08 33,08 36,10	32,48 33,48 36,60	32,58 33,58 36,70	22 24	30	20 22	22		1.5/16 1.3/8 1.7/16	1.3125 1.3750 1.4375	33,34 34,92 36,51	7/8	7/8	7/8	7/8	7/8	7/8	<sup>7</sup> /8	7/8	7/8	3/4 13/16	7/8 15/16	1.300 1.390	33,02 35,31	
38 41 42	38,10 41,10 42,10	38,60 41,60 42,60	38,70 41,70 42,70	27		24	27	30	1.1/2 1.5/8 1.11/16	1.5000 1.6250 1.6875	38,10 41,28 42,86	1 11/8	1 1½	1 11/a	1	1 11/8	1 11/8	1	1 11/8	1	7/8 1	1	1.480 1.670	37,59 42,42	
46	46,10	46,60	46,70	30	36	27	30	33	1.3/4 1.13/16 1.7/8	1.7500 1.8125 1.8750	44,45 46,04 47,62	11/4	11/4	11/4	11/8	11/4	11/4	11/8	11/4	11/8	1.1/8	11/4	1.860	47,24	
50 54 55	50,10 54,10 55,12	50,60 54,60 55,72	50,70 54,70 55,92	33 36	42		33 36		2 2.1/16 2.3/16	2.0000 2.0625 2.1875	50,80 52,39 55,56	13/8	13/8	13/8	11/4	13/8	13/8	11/4	13/8	11/4	1.1/4	13/8	2.050	52,07	
58 60	58,12 60,12	58,72 60,72	58,92 60,92	39	72		39	3,	2.1/4 2.3/8	2.2500 2.3750	57,15 60,32	11/2	11/2	11/2	11/2	11/2	11/2	11/2	11/2	11/2	1.3/8	11/2	2.220	56,39	
63 65 67	63,12 65,12 67,12	63,72 65,72 67,72	63,92 65,92 67,92	42	48		42		2.7/16 2.9/16 2.5/8	2.5625 2.6250	61,91 65,09 66,67	13/4	13/4	13/4		15/8	15/8	15/e	15/8	15/8	1.1/2	15/8	2.410	61,21	
70 71 75	70,12 71,12 75,15	70,72 71,72 75,85	70,92 71,92 76,15	45 48	56		45		2.3/4 2.13/16 2.15/16	2.7500 2.8125 2.9375	69,85 71,44 74,61				13/4	17/8	17/8	13/4	17/8	13/4	1.3/4	2	2.760	70,10	
77 80	77,15 80,15	77,85 80,85	78,15 81,15	52	-		52		3.1/8	3.0000 3.1250	76,20 79,37	2	2	2	2	21/4	21/4	2	21/4	2	2	21/4	3.150	80,01	
85 90 95	95,15 95,15	85,85 90,85 95,85	86,15 91,15 96,15	56 60 64			56 60 64		3.3/8 3.1/2 3.3/4	3.3750 3.5000 3.7500	85,72 88,90 95,25					21/2	21/4	21/4	21/4	21/4		21/2	3.550	90,17	
100	100,15	100,85	101,15	68			68		3.7/8	3.8750	98,42							21/2		21/2		23/4	3.890	98,80	

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Metric Sizes							American Sizes											British Sizes						
Spanner Openings Ø-Thread						Spo	nner Op	nings		Ø-Thread										Span Oper				
			metric size to DIN			ISO R272 1968					ISO R 272 1962		Unified Standard		American Standard B 18.2 1972 Nuts   Bolts+Scr									
Nominal Size	minimum size – mm to DIN 475/2	maximum size – mm to DIN 475/2, row 1	maximum size – mm to DIN 475/2, row 2	standard hexagon	small hexagon	large hexagon	standard hexagon	small hexagon	Nominal Size	deainal – inch	decimal – metric	Bolts	Nuts	normal series BS 1768	heavy series BS 1769	finished thick series	regular square series	heavy series	finished and regular bolt series, hex. head cap screws	finished and heavy bolt series	M W W Nominal Size	BS 916, BS 1083	decimal – inch	decimal – metric
105 110 115	105,20 110,20 115,20	106,00 111,00 116,00	106,40 111,40 116,40	72 76 80			72 76 80		4.1/ 4.1/ 4.1/	4.250	0 107,95					2 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>4</sub>	23/4	2 <sup>3</sup> / <sub>4</sub>	23/4		3 31/4	4.180 4.530	106,17 115,06
120 125	120,20 125,20	121,00 126,00	121,40 126,40	85			85		4.5/ 4.7/ 5		0 123,82							3 31/4	31/4	3		31/2	4.850	123,19
130 135 140	130,20 135,20 140,20	131,00 136,00 141,00	131,40 136,40 141,40	90 95			90 95		5.1/ 5.3/ 5.5/	5.375	0 136,52							31/2 31/2 38/4	3½ 3¾			33/ <sub>4</sub>		131,57 140,97
145 150 155	145,20 150,25 155,25	146,00 151,25 156,25	146,40	100 105 110			100 105 110		5.3/ 6 6.1/	6.000	0 152,40							3 <sup>3</sup> / <sub>4</sub> 4 4	4			41/2	6.380	162,05
160 165 170	160,25 165,25 170,25	161,25 166,25 171,25					115																	
175 180 185	175,25 180,25 185,25	176,25 181,25 186,25					120 125 130															5	7.300	185,42
190 195 200	190,25 195,25 200,25	191,25 196,25 201,25					135 140																	
210 220 230	210,25 220,30 230,30	211,25 221,50 231,50					150															51/2	8.350	212,09