

Metric Threads

Size	Major Dia	Pitch	P/4	P/8	P/16	Major Radius External	Minor Radius External	Minor Dia External	Minor Dia Internal	Minor Radius Internal	Thread Depth	Thread Height
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1.0x0.2	1	0.2	0.05	0.025	0.0125	0.5	0.391747	0.783494	0.783	0.3915	0.108253	0.17321
1.1x0.2	1.1	0.2	0.05	0.025	0.0125	0.55	0.441747	0.883494	0.883	0.4415	0.108253	0.17321
1.2x0.2	1.2	0.2	0.05	0.025	0.0125	0.6	0.491747	0.983494	0.983	0.4915	0.108253	0.17321
1.4x0.2	1.4	0.2	0.05	0.025	0.0125	0.7	0.591747	1.183494	1.183	0.5915	0.108253	0.17321
1.6x0.2	1.6	0.2	0.05	0.025	0.0125	0.8	0.691747	1.383494	1.383	0.6915	0.108253	0.17321
1.6x0.35	1.6	0.35	0.0875	0.04375	0.021875	0.8	0.610557	1.221114	1.221	0.6105	0.189443	0.30311
1.8x0.2	1.8	0.2	0.05	0.025	0.0125	0.9	0.791747	1.583494	1.583	0.7915	0.108253	0.17321
2x0.25	2	0.25	0.0625	0.03125	0.015625	1	0.864684	1.729367	1.729	0.8645	0.135316	0.21651
2x0.4	2	0.4	0.1	0.05	0.025	1	0.783494	1.566987	1.567	0.78349	0.216506	0.34641
2.2x0.25	2.2	0.25	0.0625	0.03125	0.015625	1.1	0.964684	1.929367	1.929	0.9645	0.135316	0.21651
2.5x0.35	2.5	0.35	0.0875	0.04375	0.021875	1.25	1.060557	2.121114	2.121	1.0605	0.53025	0.26513
2.5x0.45	2.5	0.45	0.1125	0.05625	0.028125	1.25	1.00643	2.012861	2.012861	1.00643	0.503215	0.25161
3x0.35	3	0.35	0.0875	0.04375	0.021875	1.5	1.310557	2.621114	2.621	1.3105	0.189443	0.30311
3x0.5	3	0.5	0.125	0.0625	0.03125	1.5	1.229367	2.458734	2.458734	1.22937	0.270633	0.43301
3.5x0.35	3.5	0.35	0.0875	0.04375	0.021875	1.75	1.560557	3.121114	3.121	1.5605	0.189443	0.30311
3.5x0.6	3.5	0.6	0.15	0.075	0.0375	1.75	1.42524	2.850481	2.850481	1.42524	0.324759	0.51962
4x0.5	4	0.5	0.125	0.0625	0.03125	2	1.729367	3.458734	3.459	1.7295	0.270633	0.43301
4x0.7	4	0.7	0.175	0.0875	0.04375	2	1.621114	3.242228	3.242228	1.62111	0.378886	0.60622
4.5x0.5	4.5	0.5	0.125	0.0625	0.03125	2.25	1.979367	3.958734	3.959	1.9795	0.270633	0.43301
5x0.5	5	0.5	0.125	0.0625	0.03125	2.5	2.229367	4.458734	4.459	2.2295	0.270633	0.43301
5x0.8	5	0.8	0.2	0.1	0.05	2.5	2.066987	4.133974	4.133974	2.06699	0.433013	0.69282
5.5x0.5	5.5	0.5	0.125	0.0625	0.03125	2.75	2.479367	4.958734	4.959	2.4795	0.270633	0.43301
6x0.75	6	0.75	0.1875	0.09375	0.046875	3	2.594051	5.188101	5.188	2.594	0.405949	0.64952
6x1	6	1	0.25	0.125	0.0625	3	2.458734	4.917468	4.917468	2.45873	0.541266	0.86603
7x0.75	7	0.75	0.1875	0.09375	0.046875	3.5	3.094051	6.188101	6.188	3.094	0.405949	0.64952
8x0.75	8	0.75	0.1875	0.09375	0.046875	4	3.594051	7.188101	7.188	3.594	0.405949	0.64952
8x1.0	8	1	0.25	0.125	0.0625	4	3.458734	6.917468	6.917	3.4585	0.541266	0.86603
8x1.25	8	1.25	0.3125	0.15625	0.078125	4	3.323418	6.646835	6.646835	3.32342	0.676582	1.08253
9x0.75	9	0.75	0.1875	0.09375	0.046875	4.5	4.094051	8.188101	8.188	4.094	0.405949	0.64952
9x 1	9	1	0.25	0.125	0.0625	4.5	3.958734	7.917468	7.917	3.9585	0.541266	0.86603
10x0.75	10	0.75	0.1875	0.09375	0.046875	5	4.594051	9.188101	9.188	4.594	0.405949	0.64952
10x1	10	1	0.25	0.125	0.0625	5	4.458734	8.917468	8.917	4.4585	0.541266	0.86603

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Size	Major Dia	Pitch	<u>P/4</u>	<u>P/8</u>	<u>P/16</u>	Major Radius External	Minor Radius External	Minor Dia External	Minor Dia Internal	Minor Radius Internal	Thread Depth	Thread Height
10x1.25	10	1.25	0.3125	0.15625	0.078125	5	4.323418	8.646835	8.647	4.3235	0.676582	1.08253
10x1.5	10	1.5	0.375	0.1875	0.09375	5	4.188101	8.376202	8.376202	4.1881	0.811898	1.29904
11x0.75	11	0.75	0.1875	0.09375	0.046875	5.5	5.094051	10.1881	10.188	5.094	0.405949	0.64952
11x1	11	1	0.25	0.125	0.0625	5.5	4.958734	9.917468	9.917	4.9585	0.541266	0.86603
12x1	12	1	0.25	0.125	0.0625	6	5.458734	10.91747	10.917	5.4585	0.541266	0.86603
12x1.25	12	1.25	0.3125	0.15625	0.078125	6	5.323418	10.64684	10.647	5.3235	0.676582	1.08253
12x1.5	12	1.5	0.375	0.1875	0.09375	6	5.188101	10.3762	10.376	5.188	0.811898	1.29904
12x1.75	12	1.75	0.4375	0.21875	0.109375	6	5.052785	10.10557	10.10557	5.05278	0.947215	1.51554
14x1.0	14	1	0.25	0.125	0.0625	7	6.458734	12.91747	12.917	6.4585	0.541266	0.86603
14x1.25	14	1.25	0.3125	0.15625	0.078125	7	6.323418	12.64684	12.647	6.3235	0.676582	1.08253
14x1.5	14	1.5	0.375	0.1875	0.09375	7	6.188101	12.3762	12.376	6.188	0.811898	1.29904
14x2	14	2	0.5	0.25	0.125	7	5.917468	11.83494	11.83494	5.91747	1.082531	1.73205
15x1	15	1	0.25	0.125	0.0625	7.5	6.958734	13.91747	13.917	6.9585	0.541266	0.86603
15x1.5	15	1.5	0.375	0.1875	0.09375	7.5	6.688101	13.3762	13.376	6.688	0.811898	1.29904
16x1	16	1	0.25	0.125	0.0625	8	7.458734	14.91747	14.917	7.4585	0.541266	0.86603
16x1.5	16	1.5	0.375	0.1875	0.09375	8	7.188101	14.3762	14.376	7.188	0.811898	1.29904
16x2	16	2	0.5	0.25	0.125	8	6.917468	13.83494	13.83494	6.91747	1.082531	1.73205
17x1.0	17	1	0.25	0.125	0.0625	8.5	7.958734	15.91747	15.917	7.9585	0.541266	0.86603
17x1.5	17	1.5	0.375	0.1875	0.09375	8.5	7.688101	15.3762	15.376	7.688	0.811898	1.29904
18x1.0	18	1	0.25	0.125	0.0625	9	8.458734	16.91747	16.917	8.4585	0.541266	0.86603
18x1.5	18	1.5	0.375	0.1875	0.09375	9	8.188101	16.3762	16.376	8.188	0.811898	1.29904
18x2.0	18	2	0.5	0.25	0.125	9	7.917468	15.83494	15.835	7.9175	1.082531	1.73205
18x2.5	18	2.5	0.625	0.3125	0.15625	9	7.646835	15.29367	15.29367	7.64684	1.353164	2.16506
20x1.0	20	1	0.25	0.125	0.0625	10	9.458734	18.91747	18.917	9.4585	0.541266	0.86603
20x1.5	20	1.5	0.375	0.1875	0.09375	10	9.188101	18.3762	18.376	9.188	0.811898	1.29904
20x2.0	20	2	0.5	0.25	0.125	10	8.917468	17.83494	17.835	8.9175	1.082531	1.73205
20x2.5	20	2.5	0.625	0.3125	0.15625	10	8.646835	17.29367	17.29367	8.64684	1.353164	2.16506
22x1.0	22	1	0.25	0.125	0.0625	11	10.45873	20.91747	20.917	10.4585	0.541266	0.86603
22x1.5	22	1.5	0.375	0.1875	0.09375	11	10.1881	20.3762	20.376	10.188	0.811898	1.29904
22x2.0	22	2	0.5	0.25	0.125	11	9.917468	19.83494	19.835	9.9175	1.082531	1.73205
22x2.5	22	2.5	0.625	0.3125	0.15625	11	9.646835	19.29367	19.29367	9.64684	1.353164	2.16506
24x1.0	24	1	0.25	0.125	0.0625	12	11.45873	22.91747	22.917	11.4585	0.541266	0.86603
24x1.5	24	1.5	0.375	0.1875	0.09375	12	11.1881	22.3762	22.376	11.188	0.811898	1.29904

Metric Threads

Size	Major Dia	Pitch	<u>P/4</u>	<u>P/8</u>	<u>P/16</u>	Major Radius External	Minor Radius External	Minor Dia External	Minor Dia Internal	Minor Radius Internal	Thread Depth	Thread Height
24x3	24	3	0.75	0.375	0.1875	12	10.3762	20.7524	20.7524	10.3762	1.623797	2.59808
25x1.0	25	1	0.25	0.125	0.0625	12.5	11.95873	23.91747	23.917	11.9585	0.541266	0.86603
25x1.5	25	1.5	0.375	0.1875	0.09375	12.5	11.6881	23.3762	23.376	11.688	0.811898	1.29904
25x2.0	25	2	0.5	0.25	0.125	12.5	11.41747	22.83494	22.835	11.4175	1.082531	1.73205
27x1.0	27	1	0.25	0.125	0.0625	13.5	12.95873	25.91747	25.917	12.9585	0.541266	0.86603
27x1.5	27	1.5	0.375	0.1875	0.09375	13.5	12.6881	25.3762	25.376	12.688	0.811898	1.29904
27x2.0	27	2	0.5	0.25	0.125	13.5	12.41747	24.83494	24.835	12.4175	1.082531	1.73205
27x3	27	3	0.75	0.375	0.1875	13.5	11.8762	23.7524	23.7524	11.8762	1.623797	2.59808
28x1.0	28	1	0.25	0.125	0.0625	14	13.45873	26.91747	26.917	13.4585	0.541266	0.86603
28x1.5	28	1.5	0.375	0.1875	0.09375	14	13.1881	26.3762	26.376	13.188	0.811898	1.29904
28x2.0	28	2	0.5	0.25	0.125	14	12.91747	25.83494	25.835	12.9175	1.082531	1.73205
30x3.5	30	3.5	0.875	0.4375	0.21875	15	13.10557	26.21114	26.21114	13.1056	1.89443	3.03109
33x3.5	33	3.5	0.875	0.4375	0.21875	16.5	14.60557	29.21114	29.21114	14.6056	1.89443	3.03109
36x4	36	4	1	0.5	0.25	18	15.83494	31.66987	31.66987	15.8349	2.165063	3.4641
42x4.5	42	4.5	1.125	0.5625	0.28125	21	18.5643	37.12861	37.12861	18.5643	2.435695	3.89711
45x4.5	45	4.5	1.125	0.5625	0.28125	22.5	20.0643	40.12861	40.12861	20.0643	2.435695	3.89711
48x5	48	5	1.25	0.625	0.3125	24	21.29367	42.58734	42.58734	21.2937	2.706328	4.33013
52x5	52	5	1.25	0.625	0.3125	26	23.29367	46.58734	46.58734	23.2937	2.706328	4.33013
56x5.5	56	5.5	1.375	0.6875	0.34375	28	25.02304	50.04607	50.04607	25.023	2.976961	4.76314
60x5.5	60	5.5	1.375	0.6875	0.34375	30	27.02304	54.04607	54.04607	27.023	2.976961	4.76314
64x6	64	6	1.5	0.75	0.375	32	28.7524	57.50481	57.50481	28.7524	3.247594	5.19615
72x6	72	6	1.5	0.75	0.375	36	32.7524	65.50481	65.50481	32.7524	3.247594	5.19615
80x6	80	6	1.5	0.75	0.375	40	36.7524	73.50481	73.50481	36.7524	3.247594	5.19615
90x6	90	6	1.5	0.75	0.375	45	41.7524	83.50481	83.50481	41.7524	3.247594	5.19615
100x6	100	6	1.5	0.75	0.375	50	46.7524	93.50481	93.50481	46.7524	3.247594	5.19615

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