

# Decimal Equivalents & Conversions



To Convert Inches to Millimeters: Multiply by 25.4; Example: (0.50 in \* 25.4 = 12.7 mm)  
 To Convert Millimeters to Inches: Multiply by 0.0394; Example: (5.5 mm \* 0.0394 = 0.2167 in)



DRILL SIZE	DECIMAL	DRILL SIZE	DECIMAL	DRILL SIZE	DECIMAL	DRILL SIZE	DECIMAL	DRILL SIZE	DECIMAL	DRILL SIZE	DECIMAL
0.1 mm	0.0039	55	0.0520	9/64	0.1406	15/64	0.2344	V	0.3770	43/64	0.6719
0.2 mm	0.0079	54	0.0550	27	0.1440	6.0 mm	0.2362	W	0.3860	11/16	0.6875
0.3 mm	0.0118	1.5 mm	0.0591	26	0.1470	B	0.2380	25/64	0.3906	17.5 mm	0.6890
80	0.0135	53	0.0595	25	0.1495	C	0.2420	10.0 mm	0.3937	45/64	0.7031
79	0.0145	1/16	0.0625	24	0.1520	D	0.2460	X	0.3970	18.0 mm	0.7087
1/64	0.0156	52	0.0635	23	0.1540	1/4	0.2500	Y	0.4040	23/32	0.7188
0.4 mm	0.0157	51	0.0670	5/32	0.1562	E	0.2500	13/32	0.4062	18.5 mm	0.7283
78	0.0160	50	0.0700	22	0.1570	6.5 mm	0.2559	Z	0.4130	47/64	0.7344
77	0.0180	49	0.0730	4.0 mm	0.1575	F	0.2570	10.5 mm	0.4134	19.0 mm	0.7480
0.5 mm	0.0197	48	0.0760	21	0.1590	G	0.2610	27/64	0.4219	3/4	0.7500
76	0.0200	5/64	0.0781	20	0.1610	17/64	0.2656	11.0 mm	0.4331	49/64	0.7656
75	0.0210	47	0.0785	19	0.1660	H	0.2660	7/16	0.4375	19.5 mm	0.7677
74	0.0225	2.0 mm	0.0787	18	0.1695	I	0.2720	11.5 mm	0.4528	25/32	0.7812
0.6 mm	0.0236	46	0.0810	11/64	0.1719	7.0 mm	0.2756	29/64	0.4531	20.0 mm	0.7874
73	0.0240	45	0.0820	17	0.1730	J	0.2770	15/32	0.4688	51/64	0.7969
72	0.0250	44	0.0860	16	0.1770	K	0.2810	12.0 mm	0.4724	20.5 mm	0.8071
71	0.0260	43	0.0890	4.5 mm	0.1775	9/32	0.2812	31/64	0.4844	13/16	0.8125
0.7 mm	0.0276	42	0.0935	15	0.1800	L	0.2900	12.5 mm	0.4921	21.0 mm	0.8268
70	0.0280	3/32	0.0938	14	0.1820	M	0.2950	1/2	0.5000	53/64	0.8281
69	0.0292	41	0.0960	13	0.1850	7.5 mm	0.2953	13.0 mm	0.5118	27/32	0.8438
68	0.0310	40	0.0980	3/16	0.1875	19/64	0.2969	33/64	0.5156	21.5 mm	0.8465
1/32	0.0312	2.5 mm	0.0984	12	0.1890	N	0.3020	17/32	0.5313	55/64	0.8594
0.8 mm	0.0315	39	0.0995	11	0.1910	5/16	0.3125	13.5 mm	0.5315	22.0 mm	0.8661
67	0.0320	38	0.1015	10	0.1935	8.0 mm	0.3150	35/64	0.5469	7/8	0.8750
66	0.0330	37	0.1040	9	0.1960	O	0.3160	14.0 mm	0.5512	22.5 mm	0.8858
65	0.0350	36	0.1065	5.0 mm	0.1969	P	0.3230	9/16	0.5625	57/64	0.8906
0.9 mm	0.0354	7/64	0.1094	8	0.1990	21/64	0.3281	14.5 mm	0.5709	23.0 mm	0.9055
64	0.0360	35	0.1100	7	0.2010	Q	0.3320	37/64	0.5781	29/32	0.9062
63	0.0370	34	0.1110	13/64	0.2031	8.5 mm	0.3346	15.0 mm	0.5906	59/64	0.9219
62	0.0380	33	0.1130	6	0.2040	R	0.3390	19/32	0.5938	23.5 mm	0.9252
61	0.0390	32	0.1160	5	0.2055	11/32	0.3438	39/64	0.6094	15/16	0.9375
1.0 mm	0.0394	3.0 mm	0.1181	4	0.2090	S	0.3480	15.5 mm	0.6102	24.0 mm	0.9449
60	0.0400	31	0.1200	3	0.2130	9.0 mm	0.3543	5/8	0.6250	61/64	0.9531
59	0.0410	1/8	0.1250	5.5 mm	0.2165	T	0.3580	16.0 mm	0.6299	24.5 mm	0.9646
58	0.0420	30	0.1285	7/32	0.2188	23/64	0.3594	41/64	0.6406	31/32	0.9688
57	0.0430	29	0.1360	2	0.2210	U	0.3680	16.5 mm	0.6496	25.0 mm	0.9843
56	0.0465	3.5 mm	0.1378	1	0.2280	9.5 mm	0.3740	21/32	0.6562	63/64	0.9844
3/64	0.0469	28	0.1405	A	0.2340	3/8	0.3750	17.0 mm	0.6693	1	1.0000

## STRAIGHT PIPE TAP & DRILL

NPS	
1/16-27	1/4
1/8-27	11/32
1/4-18	7/16
3/8-18	37/64
1/2-14	23/32
3/4-14	59/64
1-11-1/2	1-5/32
1-1/4-11-1/2	1-1/2
1-1/2-11-1/2	1-3/4
2-11-1/2	2-7/32

## SCREW THREAD INSERT (STI) TAP & DRILL

2-56	3/32	6-32	26	12-24	1	3/8-24	25/64
3-48	36	6-40	26	1/4-20	H	7/16-14	29/64
3-56	37	8-32	17	1/4-28	G	7/16-20	29/64
4-40	31	8-36	17	5/16-18	Q	1/2-13	33/64
4-48	3.0 mm	10-24	13/64	5/16-24	21/64	1/2-20	33/64
5-40	3.4 mm	10-32	7	3/8-16	X		

## TAPER PIPE TAP & DRILL

NPT	
1/16-27	D
1/8-27	R
1/4-18	7/16
3/8-18	37/64
1/2-14	45/64
3/4-14	59/64
1-11-1/2	1-5/32
1-1/4-11-1/2	1-1/2
1-1/2-11-1/2	1-47/64
2-11-1/2	2-7/32

## THREAD FORM TAP & DRILL

~65% Thread			
0-80	54	1/4-28	A
1-64	1.65 mm	5/16-18	7.3 mm
1-72	1.7 mm	5/16-24	M
2-56	5/64	3/8-16	S
2-64	2.0 mm	3/8-24	T
3-48	43	7/16-14	13/32
3-56	2.3 mm	7/16-20	10.5 mm
4-40	39	1/2-13	15/32
4-48	2.6 mm	1/2-20	31/64
5-40	33	9/16-12	17/32
5-44	2.9 mm	9/16-18	13.5 mm
6-32	1/8	5/8-11	15.0 mm
6-40	3.2 mm	5/8-18	19/32
8-32	25	3/4-10	45/64
8-36	24	3/4-16	23/32
10-24	11/64	7/8-9	0.823
10-32	16	7/8-14	27/32
12-24	5.0 mm	1-8	15/16
12-28	8	1-12	0.963
1/4-20	1		

## STANDARD TAP & DRILL

~75% Thread			
0-80	3/64	5/16-18	F
1-64	53	5/16-24	I
1-72	53	3/8-16	5/16
2-56	50	3/8-24	Q
2-64	50	7/16-14	U
3-48	47	7/16-20	W
3-56	46	1/2-12	27/64
4-40	43	1/2-13	27/64
4-48	42	1/2-20	29/64
5-40	39	9/16-12	31/64
5-44	38	9/16-18	33/64
6-32	36	5/8-11	17/32
6-40	33	5/8-18	37/64
8-32	29	3/4-10	21/32
8-36	29	3/4-16	11/16
10-24	25	7/8-9	49/64
10-32	21	7/8-14	13/16
12-24	17	1-8	7/8
12-28	15	1-12	59/64
1/4-20	7	1-14	15/16
1/4-28	3		

## METRIC TAP & DRILL

~65% Thread	
M1.6 x 0.35	1.25 mm
M2.0 x 0.40	1.60 mm
M2.5 x 0.45	2.05 mm
M3.0 x 0.50	2.50 mm
M3.5 x 0.60	2.90 mm
M4.0 x 0.70	3.30 mm
M4.5 x 0.75	3.75 mm
M5.0 x 0.80	4.20 mm
M6.0 x 1.00	5.00 mm
M7.0 x 1.00	6.00 mm
M8.0 x 1.25	6.75 mm
M10.0 x 1.50	8.50 mm
M12.0 x 1.75	Y
M14.0 x 2.00	12.00 mm
M16.0 x 2.00	14.00 mm
M18.0 x 2.50	15.50 mm
M20.0 x 2.50	17.50 mm

## METRIC THREAD FORM TAP & DRILL

~65% Thread	
M1.6 x 0.35	1.45 mm
M2.0 x 0.40	1.85 mm
M2.5 x 0.45	2.30 mm
M3.0 x 0.50	35
M3.5 x 0.60	30
M4.0 x 0.70	3.70 mm
M5.0 x 0.80	14
M6.0 x 1.00	5.50 mm
M8.0 x 1.25	7.40 mm
M10.0 x 1.50	9.30 mm
M12.0 x 1.75	7/16
M14.0 x 2.00	13.00 mm
M16.0 x 2.00	15.00 mm
M20.0 x 2.50	18.75 mm