



Halogen Lighting Products Corporation

Excellence in Machine and Industrial Lighting

Inch Fraction / Decimal & Millimeter Equivalents

Inches	Decimals	Millimeters	Inches	Decimals	Millimeters	Millimeters	Inches	Millimeters	Inches	
	$\frac{1}{64}$ 0.015625	— 0.397		$\frac{33}{64}$ 0.515625	— 13.097		0.1	— 0.0039	46	— 1.8110
	$\frac{1}{32}$ 0.03125	— 0.794		$\frac{17}{32}$ 0.53125	— 13.494		0.2	— 0.0079	47	— 1.8504
	$\frac{3}{64}$ 0.046875	— 1.191		$\frac{35}{64}$ 0.546875	— 13.891		0.3	— 0.0118	48	— 1.8898
$\frac{1}{16}$	0.0625	— 1.588	$\frac{9}{16}$	0.5625	— 14.288		0.4	— 0.0157	49	— 1.9291
	$\frac{5}{64}$ 0.078125	— 1.984		$\frac{37}{64}$ 0.578125	— 14.684		0.5	— 0.0197	50	— 1.9685
	$\frac{3}{32}$ 0.09375	— 2.381		$\frac{19}{32}$ 0.59375	— 15.081		0.6	— 0.0236	51	— 2.0079
	$\frac{7}{64}$ 0.109375	— 2.778		$\frac{39}{64}$ 0.609375	— 15.478		0.7	— 0.0276	52	— 2.0472
$\frac{1}{8}$	0.1250	— 3.175	$\frac{5}{8}$	0.6250	— 15.875		0.8	— 0.0315	53	— 2.0866
	$\frac{9}{64}$ 0.140625	— 3.572		$\frac{41}{64}$ 0.640625	— 16.272		0.9	— 0.0354	54	— 2.1260
	$\frac{5}{32}$ 0.15625	— 3.969		$\frac{21}{32}$ 0.65625	— 16.669		1	— 0.0394	55	— 2.1654
	$\frac{11}{64}$ 0.171875	— 4.366		$\frac{43}{64}$ 0.671875	— 17.066		2	— 0.0787	56	— 2.2047
$\frac{3}{16}$	0.1875	— 4.763	$\frac{11}{16}$	0.6875	— 17.463		3	— 0.1181	57	— 2.2441
	$\frac{13}{64}$ 0.203125	— 5.159		$\frac{45}{64}$ 0.703125	— 17.859		4	— 0.1575	58	— 2.2835
	$\frac{7}{32}$ 0.21875	— 5.556		$\frac{23}{32}$ 0.71875	— 18.256		5	— 0.1969	59	— 2.3228
	$\frac{15}{64}$ 0.234375	— 5.953		$\frac{47}{64}$ 0.734375	— 18.653		6	— 0.2362	60	— 2.3622
$\frac{1}{4}$	0.2500	— 6.350	$\frac{3}{4}$	0.7500	— 19.050		7	— 0.2756	61	— 2.4016
	$\frac{17}{64}$ 0.265625	— 6.747		$\frac{49}{64}$ 0.765625	— 19.447		8	— 0.3150	62	— 2.4409
	$\frac{9}{32}$ 0.28125	— 7.144		$\frac{25}{32}$ 0.78125	— 19.844		9	— 0.3543	63	— 2.4803
	$\frac{19}{64}$ 0.296875	— 7.541		$\frac{51}{64}$ 0.796875	— 20.241		10	— 0.3937	64	— 2.5197
$\frac{5}{16}$	0.3125	— 7.938	$\frac{13}{16}$	0.8125	— 20.638		11	— 0.4331	65	— 2.5591
	$\frac{21}{64}$ 0.328125	— 8.334		$\frac{45}{64}$ 0.828125	— 21.034		12	— 0.4724	66	— 2.5984
	$\frac{11}{32}$ 0.34375	— 8.731		$\frac{27}{32}$ 0.84375	— 21.431		13	— 0.5118	67	— 2.6378
	$\frac{23}{64}$ 0.359375	— 9.128		$\frac{55}{64}$ 0.859375	— 21.828		14	— 0.5512	68	— 2.6772
$\frac{3}{8}$	0.3750	— 9.525	$\frac{7}{8}$	0.8750	— 22.225		15	— 0.5906	69	— 2.7165
	$\frac{25}{64}$ 0.390625	— 9.922		$\frac{57}{64}$ 0.890625	— 22.622		16	— 0.6299	70	— 2.7559
	$\frac{13}{32}$ 0.40625	— 10.319		$\frac{29}{32}$ 0.90625	— 23.019		17	— 0.6693	71	— 2.7953
	$\frac{27}{64}$ 0.421875	— 10.716		$\frac{59}{64}$ 0.921875	— 23.416		18	— 0.7087	72	— 2.8346
$\frac{7}{16}$	0.4375	— 11.113	$\frac{15}{16}$	0.9375	— 23.813		19	— 0.7480	73	— 2.8740
	$\frac{29}{64}$ 0.453125	— 11.509		$\frac{61}{64}$ 0.953125	— 24.209		20	— 0.7874	74	— 2.9134
	$\frac{15}{32}$ 0.46875	— 11.906		$\frac{31}{32}$ 0.96875	— 24.606		21	— 0.8268	75	— 2.9528
	$\frac{31}{64}$ 0.484375	— 12.303		$\frac{63}{64}$ 0.984375	— 25.003		22	— 0.8661	76	— 2.9921
$\frac{1}{2}$	0.5000	— 12.700	1	1.000	— 25.400		23	— 0.9055	77	— 3.0315
							24	— 0.9449	78	— 3.0709
							25	— 0.9843	79	— 3.1102
							26	— 1.0236	80	— 3.1496
							27	— 1.0630	81	— 3.1890
							28	— 1.1024	82	— 3.2283
							29	— 1.1417	83	— 3.2677
							30	— 1.1811	84	— 3.3071
							31	— 1.2205	85	— 3.3465
							32	— 1.2598	86	— 3.3858
							33	— 1.2992	87	— 3.4252
							34	— 1.3386	88	— 3.4646
							35	— 1.3780	89	— 3.5039
							36	— 1.4173	90	— 3.5433
							37	— 1.4567	91	— 3.5827
							38	— 1.4961	92	— 3.6220
							39	— 1.5354	93	— 3.6614
							40	— 1.5748	94	— 3.7008
							41	— 1.6142	95	— 3.7402
							42	— 1.6535	96	— 3.7795
							43	— 1.6929	97	— 3.8189
							44	— 1.7323	98	— 3.8583
							45	— 1.7717	99	— 3.8976
									100	— 3.9370

1 mm = 0.03937"

.001" = 0.0254 mm

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Inch/Metric Tap Drill Sizes & Decimal Equivalents

Decimal Inch			Decimal Inch			Decimal Inch		
Drill Size	Equivalent	Tap Size	Drill Size	Equivalent	Tap Size	Drill Size	Equivalent	Tap Size
80	0.0135		10	0.1935		59	0.9219	1 - 12
79	0.0145		9	0.1960		64	0.9375	1 - 14
64	0.0156		8	0.1990		61	0.9531	
78	0.0160		7	0.2010	1/4 - 20	64	0.9688	
77	0.0180		64	0.2031		31	0.9844	1 1/8 - 7
76	0.0200		6	0.2040		32	1.0000	
75	0.0210		5	0.2055		64	1.0469	1 1/8 - 12
74	0.0225		4	0.2090		1 3/64	1.1094	1 1/4 - 7
73	0.0240		3	0.2130	1/4 - 28	1 1/64	1.1250	
72	0.0250		7	0.2188		1 1/32	1.1719	1 1/4 - 12
71	0.0260		32	0.2210		1 1/8	1.2188	1 3/8 - 6
70	0.0280		2	0.2280		1 1/4	1.2500	
69	0.0292		1	0.2340		1 1/2	1.2969	1 3/8 - 12
68	0.0310		A	0.2344		1 1/32	1.3438	1 1/2 - 6
32	0.0312		64	0.2380		1 3/8	1.3750	
67	0.0320		B	0.2420		1 1/2	1.4219	1 1/2 - 12
66	0.0330		C	0.2500				
65	0.0350		1/4	0.2570	8/16 - 18			
64	0.0360		F	0.2610				
63	0.0370		G	0.2656				
62	0.0380		17	0.2660				
61	0.0390		64	0.2720				
60	0.0400		H	0.2770				
59	0.0410		I	0.2810				
58	0.0420		J	0.2812				
57	0.0430		9	0.2900				
56	0.0465		32	0.2950				
3	0.0469	0 - 80	19	0.2969				
64	0.0520		64	0.2999				
55	0.0550		N	0.3020				
54	0.0550	1 - 64, 72	5	0.3125	3/8 - 16			
53	0.0595		16	0.3160				
1	0.0625		O	0.3230				
16	0.0635		21	0.3281				
52	0.0670		64	0.3320				
51	0.0700	2 - 56, 64	Q	0.3390	3/8 - 24			
50	0.0730		R	0.3438				
49	0.0760		11	0.3480				
48	0.0781		32	0.3580				
5	0.0785	3 - 48	23	0.3594				
64	0.0810		64	0.3680				
46	0.0820	3 - 56	3	0.3750	7/16 - 14			
45	0.0860		8	0.3770				
44	0.0890		V	0.3860				
43	0.0935	4 - 40	25	0.3906				
42	0.0938	4 - 48	64	0.3970	7/16 - 20			
3	0.0960		X	0.4040				
32	0.0980		13	0.4062				
41	0.0995		32	0.4130				
40	0.1015	5 - 40	27	0.4219				
39	0.1040	5 - 44	64	0.4299	1/2 - 13			
38	0.1065	6 - 32	7	0.4375				
37	0.1094		29	0.4531	1/2 - 20			
36	0.1100		64	0.4688				
7	0.1110		15	0.4844				
64	0.1130		31	0.4844	9/16 - 12			
35	0.1160		32	0.5000				
34	0.1160	6 - 40	64	0.5156	9/16 - 18			
33	0.1200		1	0.5312	5/8 - 11			
32	0.1250		17	0.5469				
31	0.1285		35	0.5625				
1	0.1360	8 - 32, 36	64	0.5781	5/8 - 18			
8	0.1405		37	0.5938				
29	0.1406		19	0.6094				
28	0.1440		39	0.6250				
9	0.1470		64	0.6406				
64	0.1495	10 - 24	41	0.6562	3/4 - 10			
27	0.1520		21	0.6719				
26	0.1540		43	0.6875	3/4 - 16			
25	0.1562		32	0.7031				
24	0.1570		64	0.7188				
23	0.1590		45	0.7344				
5	0.1610	10 - 32	23	0.7500				
32	0.1660		47	0.7656	7/8 - 9			
22	0.1695		32	0.7812				
21	0.1719		49	0.7969				
20	0.1730		64	0.8125	7/8 - 14			
19	0.1770		13	0.8281				
18	0.1800		16	0.8438				
11	0.1820	12 - 24	53	0.8594				
64	0.1850	12 - 28	27	0.8750				
17	0.1875		32	0.8906	1 - 8			
16	0.1890		57	0.9062				
15	0.1910		8					
14			29					
13			32					
3								
16								
11								

Metric Tap Drill Sizes		
Metric Tap	Tap Drill (mm)	Decimal (inch)
M1.6 x 0.35	1.25	0.0492
M1.8 x 0.35	1.45	0.0571
M2 x 0.4	1.60	0.0630
M2.2 x 0.45	1.75	0.0689
M2.5 x 0.45	2.05	0.0807
M3 x 0.5	2.50	0.0984
M3.5 x 0.6	2.90	0.1142
M4 x 0.7	3.30	0.1299
M4.5 x 0.75	3.70	0.1457
M5 x 0.8	4.20	0.1654
M6 x 1	5.00	0.1968
M7 x 1	6.00	0.2362
M8 x 1.25	6.70	0.2638
M8 x 1	7.00	0.2756
M10 x 1.5	8.50	0.3346
M10 x 1.25	8.70	0.3425
M12 x 1.75	10.20	0.4016
M12 x 1.25	10.80	0.4252
M14 x 2	12.00	0.4724
M14 x 1.5	12.50	0.4921
M16 x 2	14.00	0.5512
M16 x 1.5	14.50	0.5709
M18 x 2.5	15.50	0.6102
M18 x 1.5	16.50	0.6496
M20 x 2.5	17.50	0.6890
M20 x 1.5	18.50	0.7283
M22 x 2.5	19.50	0.7677
M22 x 1.5	20.50	0.8071
M24 x 3	21.00	0.8268
M24 x 2	22.00	0.8661
M27 x 3	24.00	0.9449
M27 x 2	25.00	0.9843
M30 x 3.5	26.50	1.0433
M30 x 2	28.00	1.1024
M33 x 3.5	29.50	1.1614
M33 x 2	31.00	1.2205
M36 x 4	32.00	1.2598
M36 x 3	33.00	1.2992
M39 x 4	35.00	1.3780
M39 x 3	36.00	1.4173

Pipe Thread Sizes (NPS)			
Thread	Drill	Thread	Drill
1/8 - 27	1 1/32	1 1/2 - 11 1/2	1 3/4
1/4 - 18	7/16	2 - 11 1/2	2 7/32
3/8 - 18	3 7/64	2 1/2 - 8	2 2 1/32
1/2 - 14	2 3/32	3 - 8	3 1/4
3/4 - 14	5 5/64	3 1/2 - 8	3 3/4
1 - 11 1/2	1 5/32	4 - 8	4 1/4
1 1/4 - 11 1/2	1 1/2		