



330-202-7671

- Buyers of standing timber
- Hardwood millwork & moulding
- General Woodworking Machinery

Fine Hardwood Lumber & Millwork

DECIMALS		MILLIMETERS		DECIMALS		MILLIMETERS		MM	INCHES	MM	INCHES	
	$\frac{1}{64}$	0.015625	0.397	$\frac{33}{64}$	0.515625	13.097		.1	.0039	46	1.8110	
$\frac{1}{32}$	$\frac{2}{64}$	.03125	0.794	$\frac{17}{32}$	.53125	13.494		.2	.0079	47	1.8504	
	$\frac{3}{64}$	.046875	1.191		$\frac{35}{64}$	.546875	13.891		.3	.0118	48	1.8898
$\frac{1}{16}$	$\frac{4}{64}$	.0625	1.588		$\frac{9}{16}$	.5625	14.288		.4	.0157	49	1.9291
	$\frac{5}{64}$	.078125	1.984		$\frac{37}{64}$	.578125	14.684		.5	.0197	50	1.9685
$\frac{3}{32}$	$\frac{6}{64}$	.09375	2.381		$\frac{19}{32}$	.59375	15.081		.6	.0236	51	2.0079
	$\frac{7}{64}$	.109375	2.778		$\frac{39}{64}$	.609375	15.478		.7	.0276	52	2.0472
$\frac{1}{8}$	$\frac{8}{64}$	.1250	3.175		$\frac{41}{64}$	.640625	16.272		.8	.0315	53	2.0866
	$\frac{9}{64}$	.140625	3.572		$\frac{21}{32}$	.65625	16.669		.9	.0354	54	2.1260
$\frac{3}{16}$	$\frac{10}{64}$	.15625	3.969		$\frac{43}{64}$	.671875	17.066		1	.0394	55	2.1654
	$\frac{11}{64}$	.171875	4.366		$\frac{11}{16}$	.6875	17.463		2	.0433	56	2.2047
	$\frac{12}{64}$	.1875	4.763		$\frac{23}{32}$	.71875	18.256		3	.0472	57	2.2441
$\frac{5}{16}$	$\frac{13}{64}$	.203125	5.159		$\frac{45}{64}$	.703125	17.859		4	.0511	58	2.2835
	$\frac{14}{64}$	.21875	5.556		$\frac{47}{64}$	.734375	18.653		5	.0551	59	2.3228
$\frac{1}{4}$	$\frac{15}{64}$	.234375	5.953		$\frac{49}{64}$	.765625	19.447		6	.0590	60	2.3622
	$\frac{16}{64}$	.2500	6.350		$\frac{25}{32}$	.78125	19.844		7	.0629	61	2.4016
	$\frac{17}{64}$	.265625	6.747		$\frac{51}{64}$	.796875	20.241		8	.0669	62	2.4409
$\frac{3}{8}$	$\frac{18}{64}$	.28125	7.144		$\frac{13}{16}$	.8125	20.638		9	.0708	63	2.4803
	$\frac{19}{64}$	.296875	7.541		$\frac{27}{32}$	.84375	21.431		10	.0748	64	2.5197
	$\frac{20}{64}$	.3125	7.938		$\frac{55}{64}$	.859375	21.828		11	.0787	65	2.5591
	$\frac{21}{64}$	.328125	8.334		$\frac{57}{64}$	.890625	22.622		12	.0826	66	2.5984
$\frac{5}{16}$	$\frac{22}{64}$	.34375	8.731		$\frac{29}{32}$	.90625	23.019		13	.0865	67	2.6378
	$\frac{23}{64}$	.359375	9.128		$\frac{59}{64}$	.921875	23.416		14	.0905	68	2.6772
	$\frac{24}{64}$	.3750	9.525		$\frac{15}{16}$	.9375	23.813		15	.0944	69	2.7165
$\frac{3}{8}$	$\frac{25}{64}$	.390625	9.922		$\frac{61}{64}$	.953125	24.209		16	.0983	70	2.7559
	$\frac{26}{64}$	.40625	10.319		$\frac{27}{32}$	.84375	21.431		17	.1022	71	2.7953
	$\frac{27}{64}$	.421875	10.716		$\frac{7}{8}$	.8750	22.225		18	.1061	72	2.8346
	$\frac{28}{64}$	.4375	11.113		$\frac{59}{64}$	.921875	23.416		19	.1100	73	2.8740
$\frac{7}{16}$	$\frac{29}{64}$	.453125	11.509		$\frac{31}{32}$	.96875	24.606		20	.1139	74	2.9134
	$\frac{30}{64}$	.46875	11.906		$\frac{63}{64}$	.984375	25.003		21	.1178	75	2.9528
	$\frac{31}{64}$	.484375	12.303		$\frac{1}{2}$	1.000	25.400		22	.1217	76	2.9921
$\frac{1}{2}$.5000	12.700						23	.1256	77	3.0315

1 mm = .03937"

1" = 25.4 mm

S4S, Hardwood Lumber, & Mouldings

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MOTOR FULL LOAD CURRENTS

3 Phase A.C. Induction Type-
Squirrel Cage and Wound Rotor

HP	200V	230V	460V
1	4.15	3.6	1.8
1½	6	5.2	2.6
2	7.8	6.8	3.4
3	11	9.6	4.8
5	17.5	15.2	7.6
7½	25	22	11
10	32	28	14
15	48	42	21
20	62	54	27
25	78	68	34
30	92	80	40
50	150	130	65
75	221	192	96
100	285	248	124
125	358	312	156
150	415	360	180
200	550	480	240

Over 200 HP approx.
Amperes/HP 2.75 2.40 1.20

FULL LOAD CURRENTS

Three Phase Transformers
Voltage (Line to Line)

KVA	208	240	480
Rating			
3	8.3	7.2	3.6
6	16.6	14.4	7.2
9	25	21.6	10.8
15	41.6	36.0	18.0
30	83	72	36
45	125	108	54
75	208	180	90
100	278	241	120
150	416	360	180
225	625	542	271
300	830	720	360
500	1390	1200	600
750	2080	1800	900
1000	2775	2400	1200
1500	4150	3600	1800
2000	5550	4800	2400

For other KVA ratings or voltages:

$$\text{Amperes} = \frac{\text{KVA} \times 1000}{\text{Volts} \times 1.732}$$

CONVERSION FACTORS

General Formula: $A \times C = B$; also $B \div C = A$

A	B	C
To Convert From	To	Multiply By
LENGTH		
inch	millimeter	25.4
microinch	micrometer	0.0254
inch	micrometer	25 400.0
MASS		
pound	kilogram	0.453 592
ounce	gram	28.349 52
AREA		
square inch	square millimeter	645.16
square inch	square meter	0.000 645
VOLUME		
cubic inch	cubic millimeter	16 387.06
cubic inch	cubic meter	0.000 0164
HORSEPOWER		
kilowatt (kw)	Horsepower (HP)	1.341

AIR VOLUME IN DUCTS

Air Volume in ducts in cubic feet per minute

Velocity FPM	3500	4000	4500	5000
Duct				
3	170	195	220	245
4	305	350	395	440
5	475	545	615	680
6	685	785	885	980
7	935	1070	1205	1335
8	1220	1395	1570	1745
9	1545	1765	1990	2210
10	1910	2180	2455	2725
12	2750	3140	3535	3925
14	3740	4275	4810	5345
16	4885	5585	6285	6980
18	6185	7070	7950	8835
20	7635	8725	9815	10910
22	9240	10560	11880	13200
24	10995	12656	14135	15710
26	12900	14740	16580	18420
28	14960	17100	19230	21310
30	17170	19625	22080	24530
32	19541	22330	25120	27910

Different materials need to be moved at different velocities so as to prevent the material from falling out of the air stream. For example: wood chips and saw dust flow well at 4500 FPM.

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