LINEAR MEASURE CONVERSIONS

MILLIMETERS TO INCHES

mm.	inches	mm.	inches	mm.	inches
,1 =	.0039	10 =	.3937	45 =	1.77165
,2 =	.0078	11 =	.43307	50 =	1.9685
,3 =	.0118	12 =	.4724	55 =	2.16535
,4 =	.0157	13 =	.5118	60 =	2.3622
,5 =	.01968	14 =	.55118	65 =	2.55905
,6 =	.0236	15 =	.59055	70 =	2.7559
,7 =	.02755	16 =	.6299	75 =	2.95265
,8 =	.0315	17 =	.66929	80 =	3.1496
,9 =	.0354	18 =	.70866	85 =	3.34645
1, =	.03937	19 =	.7480	90 =	3.5433
2, =	.0787	20 =	.7874	95 =	3.74015
3, =	.1181	21 =	.82677	100 =	3.9370
4, =	.15748	22 =	.8661	200 =	7.874
5, =	.19685	23 =	.9055	250 =	9.8425
6, =	.2362	24 =	.94488	300 =	11.811
7, =	.27559	25 =	.98425	400 =	15.748
8, =	.31496	30 =	1.1811	500 =	19.685
9, =	.3543	35 =	1.37795	750 =	29.5275
		40 =	1.5748	1000 =	39.370

INCHES TO MILLIMETERS

1/16" = 1,6 mm	1" = 25,4 mm
1/8" = 3,2 mm	2" = 50,8 mm
3/16" = 4,8 mm	3" = 76,2 mm
1/4" = 6,4 mm	4" = 101,6 mm
5/16" = 7,9 mm	5" = 127, mm
3/8" = 9,5 mm	6" = 152,4 mm
7/16" = 11,1 mm	7" = 177,8 mm
1/2" = 12,7 mm	8" = 203,2 mm
9/16" = 14,3 mm	9" = 228,6 mm
5/8" = 15,9 mm	10" = 254, mm
11/16" = 17,5 mm	11" = 279,4 mm
3/4" = 19,1 mm	12" = 304,8 mm
13/16" = 20,6 mm	24" = 610 mm
7/8" = 22,2 mm	36" = 914 mm
15/16" = 23,8 mm	48" = 1219 mm

To determine a millimeter size not listed, add the components of the desired size, for example:

70,0 mm = 2.7559"
2,0 mm = 0.0787"
0,5 mm = 0.01968"
72,5 mm = 2.85428"

SHAFT SURFACE SPEED CONVERSION CHARTS (RPM to FPM)

Shaft Diam. inch	Shaft Diam. mm	RPM 100	300	500	1000	1500	1750	2000	2500	3000	3600	4000	4500	5000
½	12,7	13	39	65	131	196	229	262	327	393	471	524	590	655
¾	19,1	19	58	98	196	294	344	392	490	588	707	784	882	980
1	25,4	26	78	131	262	392	458	524	655	785	942	1047	1178	1309
1¼	31,75	32	98	163	327	490	573	654	817	981	1178	1309	1472	1636
1½	38,1	39	118	195	393	589	687	785	976	1178	1414	1570	1717	1953
1¾	44,45	45	137	229	458	687	821	916	1145	1374	1649	1832	2061	2290
2	50,8	52	157	261	524	785	916	1057	1309	1571	1885	2094	2356	2618
2½	64,5	65	196	327	655	982	1145	1309	1636	1963	2356	2618	2945	3271
3	76,2	78	235	392	785	1178	1374	1571	1962	2355	2827	3141	3533	3925
3½	88,9	91	275	458	916	1374	1604	1833	2290	2749	3299	3663	4121	4579
4	101,6	104	314	523	1047	1570	1833	2094	2618	3141	3770	4186	4710	5233
5	127,0	131	393	654	1309	1963	2291	2618	3272	3925	4712	5233	5890	6545
6	152,4	157	471	785	1570	2356	2749	3141	3925	4710	5655	6280	7070	7850
7	177,8	183	549	916	1832	2748	3207	3663	4579	5945				
8	203,2	209	628	1047	2094	3141	3665	4187	5233					
9	228,6	235	706	1178	2356	3533	4114	4710	5887					
10	254,0	261	785	1309	2618	3925	4582	5233						

To convert FPM in the chart above to M/S, multiply the FPM figure by 0.0051. This is the shaft surface speed in meters per second.

NOTE: To determine the shaft surface speed for diameters or rotational speeds for a specific case not shown, use one of the two formulas below:

$$\text{Feet/Min.} = \frac{\text{Shaft Diam. (inches)} \times \text{Rev./Min.}}{4}$$

$$\text{Meters/Sec.} = \frac{\text{Shaft Diam. (mm)} \times \text{Rev./Min.}}{18750}$$

TEMPERATURE CONVERSION FORMULAS

$$°F = \frac{9°C}{5} + 32$$

$$°C = \frac{5\,(°F - 32)}{9}$$