

FRACTION-DECIMAL CONVERSION CHART

	<u>INCHES</u>	<u>MILLIMETERS</u>		<u>INCHES</u>	<u>MILLIMETERS</u>
$\frac{1}{32}$	$\frac{1}{64}$.015625	.3969	$\frac{17}{32}$	$\frac{33}{64}$.515625	13.096
$\frac{1}{16}$	$\frac{3}{64}$.046875	.7938	$\frac{9}{16}$	$\frac{35}{64}$.546875	13.493
$\frac{3}{32}$	$\frac{5}{64}$.078125	1.1906	$\frac{19}{32}$	$\frac{37}{64}$.578125	13.890
$\frac{1}{8}$	$\frac{7}{64}$.109375	1.5875	$\frac{39}{64}$	$\frac{39}{64}$.609375	14.287
$\frac{5}{32}$	$\frac{9}{64}$.140625	1.9844	$\frac{5}{8}$	$\frac{41}{64}$.640625	14.684
$\frac{3}{16}$	$\frac{11}{64}$.171875	2.3813	$\frac{21}{32}$	$\frac{43}{64}$.671875	15.081
$\frac{7}{32}$	$\frac{13}{64}$.203125	2.7781	$\frac{11}{16}$	$\frac{45}{64}$.703125	15.478
$\frac{1}{4}$	$\frac{15}{64}$.234375	3.1750	$\frac{23}{32}$	$\frac{47}{64}$.734375	15.875
$\frac{9}{32}$	$\frac{17}{64}$.265625	3.5719	$\frac{3}{4}$	$\frac{49}{64}$.765625	16.271
$\frac{5}{16}$	$\frac{19}{64}$.296875	3.9688	$\frac{25}{32}$	$\frac{51}{64}$.796875	16.668
$\frac{11}{32}$	$\frac{21}{64}$.328125	4.3656	$\frac{13}{16}$	$\frac{53}{64}$.828125	17.065
$\frac{3}{8}$	$\frac{23}{64}$.359375	4.7625	$\frac{27}{32}$	$\frac{55}{64}$.859375	17.462
$\frac{13}{32}$	$\frac{25}{64}$.390625	5.1594	$\frac{7}{8}$	$\frac{57}{64}$.890625	17.859
$\frac{7}{16}$	$\frac{27}{64}$.421875	5.5563	$\frac{29}{32}$	$\frac{59}{64}$.921875	18.256
$\frac{15}{32}$	$\frac{29}{64}$.453125	5.9531	$\frac{15}{16}$	$\frac{61}{64}$.953125	18.653
$\frac{1}{2}$	$\frac{31}{64}$.484375	6.3500	$\frac{31}{32}$	$\frac{63}{64}$.984375	19.050
		6.7469	$\frac{1$		19.447
		7.1438			19.843
		7.5406			20.240
		7.9375			20.6375
		8.3344			21.0345
		8.7313			21.431
		9.1282			21.8282
		9.5250			22.2251
		9.9219			22.6220
		10.3188			23.0188
		10.7157			23.4157
		11.1125			23.8126
		11.5094			24.2095
		11.9063			24.6063
		12.3032			25.0032
		12.7001			25.4001

COMMON FORMULAS

$$\text{HP} = \frac{T \times \text{RPM}}{63025}$$

$$\text{FPM} = 0.2618 \times D \times \text{RPM}$$

$$T = \frac{\text{HP} \times 63025}{\text{RPM}}$$

$$\text{RPM} = \frac{\text{FPM} \times 3.820}{D}$$

HP = Horsepower

T = Torque in in-lb

RPM = Revolutions per minute

D = Diameter in inches

FPM = Feet per minute

KW = Kilowatt

MM = Millimeter

CONVERSIONS

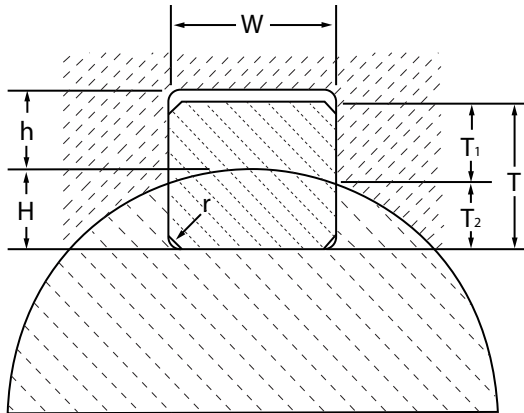
$$\text{HP} = \text{kW} \times 1.34$$

$$\text{kW} = \text{HP} \times 0.746$$

$$\text{INCH} = \text{MM} \div 25.4$$

$$\text{MM} = \text{INCH} \times 25.4$$

KEYWAY AND KEY SIZE DIMENSIONS



Keyway and Key Size Dimension Reference

English Standard Keyway and Key Sizes

Shaft Diameter (in)		Keyway (in)*		Key (in)	
From	To	Width (W)	Depth (T ₁)	Width (W)	Depth (T)
5/16	7/16	3/32	3/64	3/32	3/32
1/2	9/16	1/8	1/16	1/8	1/8
5/8	7/8	3/16	3/32	3/16	3/16
15/16	1-1/4	1/4	1/8	1/4	1/4
1-5/16	1-3/8	5/16	5/32	5/16	5/16
1-7/16	1-3/4	3/8	3/16	3/8	3/8
1-13/16	2-1/4	1/2	1/4	1/2	1/2
2-5/16	2-3/4	5/8	5/16	5/8	5/8
2-13/16	3-1/4	3/4	3/8	3/4	3/4
3-5/16	3-3/4	7/8	7/16	7/8	7/8
3-13/16	4-1/2	1	1/2	1	1
4-9/16	5-1/2	1-1/4	5/8	1-1/4	1-1/4
5-9/16	6-1/2	1-1/2	3/4	1-1/2	1-1/2
6-9/16	7-1/2	1-3/4	3/4	1-3/4	1-1/2
7-9/16	9	2	3/4	2	1-1/2

* Common dimension specification

Standard Key and Keyway Sizing

English Dimensions:	Metric Dimensions:
Keyway: W x T ₁	Keyway: W x h
Key: W x T	Key: W x T

Metric Standard Parallel Keyway and Key Sizes

Shaft Diameter (mm)		Keyway (mm)		Key (mm)*	
From	To	Width (W)	Depth (h)	Width (W)	Depth (T)
6	8	2	1.0	2	2
9	10	3	1.4	3	3
11	12	4	1.8	4	4
13	17	5	2.3	5	5
18	22	6	2.8	6	6
23	30	8	3.3	8	7
31	38	10	3.3	10	8
39	44	12	3.3	12	8
45	50	14	3.8	14	9
51	58	16	4.3	16	10
59	65	18	4.4	18	11
66	75	20	4.9	20	12
76	86	22	5.4	22	14
86	96	25	5.4	25	14
96	110	28	6.4	28	16
111	130	32	7.4	32	18
131	150	36	8.4	36	20
151	170	40	9.4	40	22
171	200	45	10.4	45	25
201	230	50	11.4	50	28
231	260	56	12.4	56	32
261	290	63	12.4	63	32
291	330	70	14.4	70	36
331	380	80	15.4	80	40
381	440	90	17.4	90	45
441	500	100	19.5	100	50

* Common dimension specification

**PURVEYORS
OF THE
FINEST IN:**

**Mechanical Power
Transmission**

Bearings

Belting

**Electronic Motion
Control**

Fluid Power

Material Handling