



# Goodwrench Transmissions

POWERTRAIN CONTACT CENTER: 866-453-4123

## INCH TAP DRILL SIZES & DECIMAL EQUIVALENTS

Fraction or Drill Size	Decimal Equivalent	Tap Size	Fraction or Drill Size	Decimal Equivalent	Tap Size	Fraction or Drill Size	Decimal Equivalent	Tap Size
NUMBER SIZE DRILLS	80 .0135		39 .0995			A	.2340	LETTER SIZE DRILLS
	79 .0145		38 .1015		5-40	15/64	.2344	
1/64	.0156		37 .1040		5-44	B	.2380	
	78 .0160		36 .1065		6-32	C	.2420	
	77 .0180		7/64	.1094		D	.2460	
	76 .0200		35 .1100			1/4	E	.2500
	75 .0210		34 .1110			F	.2570	5/16-18
	74 .0225		33 .1130		6-40	G	.2610	
	73 .0240		32 .1160			17/64	.2656	
	72 .0250		31 .1200			H	.2660	
	71 .0260		1/8	.1250		I	.2720	5/16-24
	70 .0280		30 .1285			J	.2770	
	69 .0292		29 .1360		8-32,36	K	.2810	
	68 .0310		28 .1405			9/32	.2812	
1/32	.0312		9/64	.1406		L	.2900	
	67 .0320		27 .1440			M	.2950	
	66 .0330		26 .1470			19/64	.2969	
	65 .0350		25 .1495		10-24	N	.3020	
	64 .0360		24 .1520			5/16	.3125	3/8-16
	63 .0370		23 .1540			O	.3160	
	62 .0380		5/32	.1562		P	.3230	
	61 .0390		22 .1570			21/64	.3281	
	60 .0400		21 .1590		10-32	Q	.3320	3/8-24
	59 .0410		20 .1610			R	.3390	
	58 .0420		19 .1660			11/32	.3438	
	57 .0430		18 .1695			S	.3480	
	56 .0465		11/64	.1719		T	.3580	
3/64	.0469	0-80	17 .1730			23/64	.3594	
	55 .0520		16 .1770		12-24	U	.3680	7/16-14
	54 .0550		15 .1800			3/8	.3750	
	53 .0595	1-64, 72	14 .1820		12-28	V	.3770	
1/16	.0625		13 .1850			W	.3860	
	52 .0635		3/16	.1875		25/64	.3906	7/16-20
	51 .0670		12 .1890			X	.3970	
	50 .0700	2-56, 64	11 .1910			Y	.4040	
	49 .0730		10 .1935			13/32	.4062	
	48 .0760		9 .1960			Z	.4130	
5/64	.0781		8 .1990			27/64	.4219	1/2-13
	47 .0785	3-48	7 .2010		1/4-20	7/16	.4375	
	46 .0810		13/64	.2031		29/64	.4531	1/2-20
	45 .0820	3-56	6 .2040			15/32	.4688	
	44 .0860		5 .2055			31/64	.4844	9/16-12
	43 .0890	4-40	4 .2090			1/2	.5000	
	42 .0935	4-48	3 .2130		1/4-28	33/64	.5156	9/16-18
3/32	.0938		7/32	.2188		17/32	.5312	5/8-11
	41 .0960		2 .2210			35/64	.5469	
	40 .0980		1 .2280			9/16	.5625	



## INCH TAP DRILL SIZES & DECIMAL EQUIVALENTS

Fraction or Drill Size	Decimal Equivalent	Tap Size	COMPRESSION RATIO (C.R.):
37/64	.5781	5/8-18	<p>WHERE:</p> <p>C.R. = S.V. + C.V./C.V.</p> <p>S.V. = SWEEPED VOLUME FOR ONE CYLINDER = <math>\frac{3.1416 \times C.B. \times C.B. \times STROKE}{4}</math></p> <p>C.B. = CYLINDER BORE DIAMETER</p> <p>C.V. = CLEARANCE VOLUME FOR ONE CYLINDER = H.V. - E.D.V. + D.V. + G.V.</p> <p>H.V. = HEAD VOLUME (MEASURED)</p> <p>E.D.V. = EFFECTIVE DOME VOLUME = DOME VOLUME - VALVE RELIEF VOLUME</p> <p>D.V. = DECK CLEARANCE VOLUME (BELOW BLOCK IS POSITIVE, ABOVE BLOCK IS NEGATIVE) = <math>\frac{3.1416 \times C.B. \times C.B. \times DECK CLEARANCE}{4}</math></p> <p>G.V. = GASKET VOLUME = <math>\frac{3.1416 \times G.I. \times G.I. \times C.G.T.}{4}</math></p> <p>G.I. = GASKET INSIDE DIAMETER</p> <p>C.G.T. = COMPRESSED GASKET THICKNESS</p>
19/32	.5938		
39/64	.6094		
5/8	.6250		
41/64	.6406		
21/32	.6562	3/4-10	
43/64	.6719		
11/16	.6875	3/4-16	
45/64	.7031		
23/32	.7188		
47/64	.7344		
3/4	.7500		
49/64	.7656	7/8-9	
25/32	.7812		
51/64	.7969		
13/16	.8125	7/8-14	
53/64	.8281		
27/32	.8438		
55/64	.8594		
7/8	.8750	1-8	
57/64	.8906		
29/32	.9062		
59/64	.9219	1-12	
15/16	.9375		
61/64	.9531		
31/32	.9688		
63/64	.9844	1-1/8-7	
1	1.0000		
1-3/64	1.0469	1-1/8-12	
1-7/64	1.1094	1-1/4-7	
1-1/8	1.1250		
1-11/64	1.1719	1-1/4-12	
1-7/32	1.2188	1-3/8-6	
1-1/4	1.2500		
1-19/64	1.2969	1-3/8-12	
1-11/32	1.3438	1-1/2-6	
1-3/8	1.3750		
1-27/64	1.4219	1-1/2-12	
1-1/2	1.5000		
			<p>CYLINDER VOLUME:</p> <p><math>\frac{3.1416 \times BORE \times BORE \times STROKE}{4}</math></p>
			<p>CUBIC INCHES:</p> <p>.7854 x NO. OF CYLINDERS x STROKE x BORE x BORE</p>
			<p>HORSEPOWER:</p> <p><math>\frac{TORQUE \times RPM}{5252}</math></p>

## CONVERSION FACTORS

MULTIPLY	BY	TO OBTAIN	MULTIPLY	BY	TO OBTAIN
Centimeters	.3937	Inches	Grams	.03527	Ounces
Cubic Centimeters	.06102	Cubic Inches	Inches	2.540	Centimeters
Cubic Centimeters	.001	Liters	Inches	25.40	Millimeters
Cubic Inches	16.39	Cubic Centimeters	Liters	1000	Cubic Centimeters
Cubic Inches	.01639	Liters	Liters	61.02	Cubic Inches
Degrees Celsius	(°C x 9/5) + 32	Degrees Fahrenheit	Millimeters	.03937	Inches
Degrees Fahrenheit	(°F - 32) x 5/9	Degrees Celsius	Ounces	28.349527	Grams