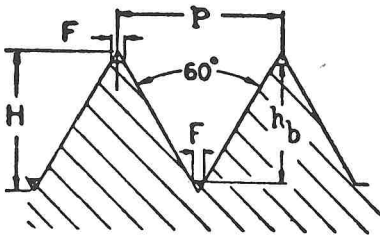


BASIC THREAD DIMENSIONS AND TAP DRILL INFORMATION

Machine Screw Sizes—Unified & American National Form



Formula

$$p = \text{Pitch} = \frac{1}{\text{No. thds. per inch}}$$

$$h_b = \text{Height} = p \times .649519$$

$$F = \text{Flat} = \frac{p}{8}$$

$$H = \text{Thd. 'V' Height} = p \times .866025$$

1	2	3	4	5	6	7
					Tap Drill	
Nominal Size	Basic* Major Diameter Inches	Basic* Pitch Diameter Inches	Basic Minor Diameter Inches	Maximum* Minor Diameter Class 3B Internal Thread	Size Drill to Produce Approx. 75% Basic Thd. Engagement	Decimal† Equivalent of Drill
0—80	.0600	.0519	.0438	.0514	3/64	.0469
1—64	.0730	.0629	.0527	.0623	53	.0595
72	.0730	.0640	.0550	.0635	53	.0595
2—56	.0860	.0744	.0628	.0737	50	.0700
64	.0860	.0759	.0657	.0753	50	.0700
3—48	.0990	.0855	.0719	.0845	47	.0785
56	.0990	.0874	.0758	.0865	45	.0820
4—32	.1120	.0917	.0714	.0895	45	.0820
36	.1120	.0940	.0759	.0919	44	.0860
40	.1120	.0958	.0795	.0939	43	.0890
48	.1120	.0985	.0849	.0968	42	.0935
5—40	.1250	.1088	.0925	.1062	38	.1015
44	.1250	.1102	.0955	.1079	37	.1040
6—32	.1380	.1177	.0974	.1140	36	.1065
36	.1380	.1200	.1019	.1165	34	.1110
40	.1380	.1218	.1055	.1186	33	.1130
8—32	.1640	.1437	.1234	.1389	29	.1360
36	.1640	.1460	.1279	.1416	29	.1360
40	.1640	.1478	.1315	.1437	28	.1405
10—24	.1900	.1629	.1359	.1555	25	.1495
28	.1900	.1668	.1436	.1604	23	.1540
30	.1900	.1684	.1467	.1624	22	.1570
32	.1900	.1697	.1494	.1641	21	.1590
12—24	.2160	.1889	.1619	.1807	16	.1770
28	.2160	.1928	.1696	.1857	14	.1820
32	.2160	.1957	.1754	.1895	13	.1850
14—20	.2420	.2095	.1770	.1987	10	.1935
24	.2420	.2149	.1879	.2059	7	.2010

*Figures shown in columns 2, 3 and 5 are correct for Unified Thread Form as computed in USA STD. B1.1.-1960.

† 75% thread is rarely needed in small diameters. Use of a larger drill will reduce tap breakage.