American Standard Acme Screw Thread Dimensions

h = Basic depth of thread
h′ = Depth of thread with clearance
K = Tap drill
    Basic minor diameter of nut
Fc = Width of flat at crest of thread
Fr = Width of flat at bottom of space

n = Number of threads per inch
p = Pitch of thread
Kr = Minor diameter of screw
D = Major diameter of screw
T = Major diameter of tap
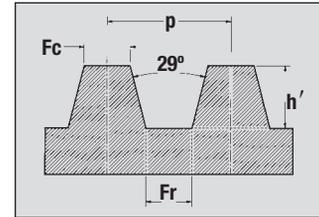
FOR 10 OR LESS THREADS PER INCH

$$h' = \frac{P}{2} \text{ plus } .010$$

$$Fr = \frac{.3707}{n} \text{ minus } .0052$$

$$T = D \text{ plus } .020$$

FOR MORE THAN 10 THREADS PER INCH

$$h' = \frac{P}{2} \text{ plus } .005$$

$$Fr = \frac{.3707}{n} \text{ minus } .0026$$

$$T = D \text{ plus } .010$$

$$p = \frac{1}{n} \qquad Fc = \frac{.3707}{n}$$

$$K = D \text{ minus } p \qquad Kr = D \text{ minus } 2h'$$

Threads per inch (n)	Depth of Thread with Clearance (h′)	Flat at Top of Thread (Fc)	Flat at Bottom of Space (Fr)	Space at Top of Thread	Thickness at Root of Thread
1	.5100	.3707	.3655	.6293	.6345
1 1/3	.3850	.2780	.2728	.4720	.4772
2	.2600	.1854	.1802	.3146	.3198
3	.1767	.1236	.1184	.2097	.2149
4	.1350	.0927	.0875	.1573	.1625
5	.1100	.0741	.0689	.1259	.1311
6	.0933	.0618	.0566	.1049	.1101
7	.0814	.0530	.0478	.0899	.0951
8	.0725	.0463	.0411	.0787	.0839
9	.0655	.0412	.0360	.0699	.0751
10	.0600	.0371	.0319	.0629	.0681
12	.0467	.0309	.0283	.0524	.0550
14	.0407	.0265	.0239	.0449	.0475
16	.0363	.0232	.0206	.0393	.0419