

English Machine Screws Data #1 through 1/2-inch

Table terms:

screw ID is the common name for the screw; **P** is the screw thread pitch in threads/inch. **Q** is the major thread diameter; **Series** is Unified National Coarse or Unified National Fine.

clearance drill is the drill size that will produce a hole through which the screw will fit without interference.

tap drill is the drill size that will produce a hole which can be threaded to produce 75% thread contact (standard)

English Machine Screw Nomenclature (sample):

“5/16-24x7/8-in. UNF,” indicates a screw in series UNF with Q=5/16-in., P=24 threads/in., and the total length of the screw shank=7/8-inch.

screw ID	P	Series	Q	clearance	tap
				drill	drill
#1	64	UNC		47	53
#1	72	UNF		47	53
#2	56	UNC		42	50
#2	64	UNF		42	50
#3	48	UNC		36	47
#3	56	UNF		36	45
#4	40	UNC		31	43
#4	48	UNF		31	43
#5	40	UNC		29	38
#5	44	UNF		29	37
#6	32	UNC		25	36
#6	40	UNF		25	33
#8	32	UNC		16	29
#8	36	UNF		16	29
#10	24	UNC		13/64	25
#10	32	UNF		13/64	21
#12	24	UNC		7/32	16
#12	28	UNF		7/32	14
1/4	20	UNC	0.250	17/64	7
1/4	28	UNF	0.250	17/64	3
5/16	18	UNC	0.3125	21/64	F
5/16	24	UNF	0.3125	21/64	I
3/8	16	UNC	0.375	25/64	5/16
3/8	24	UNF	0.375	25/64	Q
7/16	14	UNC	0.4375	29/64	U
7/16	20	UNF	0.4375	29/64	25/64
1/2	13	UNC	0.500	33/64	27/64
1/2	20	UNF	0.500	33/64	29/64

end of table