

TOLERANCES FOR DRILLS

Drill Diameter Tolerances

Diameter Range (inches)	Plus (+) (inches)	Minus (-) (inches)
through 1/8	.0000	.0005
over 1/8 through 1/4	.0000	.0007
over 1/4 through 1/2	.0000	.0010
over 1/2 through 1	.0000	.0012
over 1 through 2	.0000	.0015
over 2 through 3-1/2	.0000	.0020

Drill Overall Length and Flute Length Tolerances

Diameter Range (inches)	Plus (+) (inches)	Minus (-) (inches)
#80 through 1/8	.1250	.0625
over 1/8 through 1/2	.1250	.1250
over 1/2 through 1	.2500	.1250
over 1 through 2	.2500	.2500
over 1 through 3-1/2	.3750	.3750

Drill Point Angle Tolerances

Diameter Range (inches)	Plus (+) (inches)	Minus (-) (inches)
1/16 through 1/2	118°	± 5°
over 1/2 through 1-1/2	.1250	± 3°
over 1-1/2 through 3-1/2	.2500	± 2°

Drill Lip Height Tolerances

Diameter Range (inches)	Plus (+) (inches)
1/16 through 1/8	.0020
over 1/8 through 1/4	.0030
over 1/4 through 1/2	.0040
over 1/2 through 1	.0050
over 1 through 3-1/2	.0060

