THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT

Drills and reamers

One data sheet per type.

The family

Type	Kind	In short
Brad point drill	Wood drill	Lip and spur: the spur centres, the corners cut the rim first
Bullet reamer	Reamer	Three or four flutes, production use
Carbide twist drill	Twist drill	Hard, abrasion-proof and brittle
Clothes pin or fish-tail point drill	Composite drill	Slices the fibres before pulling them out
Cobalt alloy drill	Twist drill	Thicker web, taper at the end of the shank
Diamond-coated drill	Twist drill	For hard, abrasive fibre
Diamond-coated hole saw	Large-hole cutter	For large holes in composite
Expansion reamer	Reamer	Named by the Handbook as expansive, not described further
Extension drill	Long drill	6 to 12 in, spring-tempered shank, notched point
Flat flute or four-flute drill	Composite drill	Special drills for hard fibre
Fly cutter	Large-hole cutter	For large holes in composite, drill press only
Forstner bit	Wood drill	Precise, flat-bottomed bore
HSS drill, 118° point	Twist drill	The general point, 59° either side of centre
HSS drill, 135° split point	Twist drill	The standard twist drill for aluminium
HSS twist drill, jobber length	Twist drill	Two flutes, standard length
HSS twist drill, short shank	Twist drill	Two flutes, short shank for tight spots
Klenk drill	Composite drill	Sickle-shaped: pulls the fibre, then shears it
Piloted reamer	Reamer	End reduced for accurate alignment
Precision step drill	Step drill	Pilot nose plus a larger body
Step reamer	Reamer	Aligning step matches the core drill
Stepped cone drill (Unibit)	Step drill	Cuts 1/8 to 1/2 in by 1/32 in steps
Straight reamer	Reamer	Standard reamer, cuts at the end
Threaded shank drill	Twist drill	Screws into a right angle drill head
Three- and four-flute enlarging drill	Enlarging drill	Enlarges a hole, does not originate one

Notes

- **Inch values are official.** Aviation is designed and worked in inches. Millimetres are converted and are not official; where one is shown, the metric drill is the nearest alternative, not the official drill.

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/drills/

Reference data. The aircraft manufacturer's documentation (SRM / IPC) takes precedence.

THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT