

Cutting Tools

DRILLING

The basic twist drill is a general-purpose tool capable of producing holes in materials, normally manufactured in High Speed Steel (HSS):

Flute

the flute of a drill transports swarf away from the cutting edge, the efficiency of which depends on a number of factors including the helix angle, flute volume, surface finish and the types of chip produced

Point Angle

the standard point angle is 118°. To reduce cutting forces or for more accurate hole production applications, variants of point angle, split point, point thinned and other special geometry's are used

Drill Lengths

Stub drills have a short flute length, half that of a jobber drill. They are rigid and robust - advantageous for drill stability - and used extensively where tooling space is restricted. Normally capable of drilling holes up to 2.5xdrill diameter

Jobber Drills have a design capable of drilling hole depths up to 4xdiameter meeting most engineering applications

Long Series Drills are used when drilling depths greater than 4xdiameter. Longer than the standard Jobber drill, they are used for long reach applications and for deeper holes by interrupted drilling ("pecking"). Capable of drilling holes up to 10xdiameter

A120 HSS Stub Drill



Special Split Point ensures easy starting and accurate drill location
Ideal for use in portable drills, turret and automatic lathes
Size Range: 0.5 - 25.0mm (1/32"-1.1/4")

For more difficult machining applications in hard and abrasive Materials, this drill is available in High Speed Cobalt (A117) and (R022, R120 & R520)

Also available in sets:

A095 - supplied in a heavy duty metal case



A096 - Supplied in cylindrical case



A098 Drillboy - supplied in case incorporating handy drill size selector



A002 HSS TiN Coated Jobber Drill



The 'Industry Standard' Jobber Drill, only available from Dormer Tools Features special 'P.S Point' which boosts productivity by increasing ease of penetration, improving hole size and enabling greater positional accuracy Titanium Nitride (TiN) tip coating resists wear and reduces friction - allowing increased cutting speeds
Size Range: 1.0-16.0mm (3/64" - 5/8")

For more difficult machining applications in hard and abrasive materials, this drill is available in High Speed Cobalt (A777) and Carbide (R002, Carbide R100 & R510)

TAPPING

The correct choice of tap to suit a particular application is fundamental to the success of that operation:

Straight Flute Taps

The most commonly used type of tap. Suitable for use on most materials, designed for the production of through and blind holes. These are generally supplied in one of three Chamfer leads - Taper, Second and Bottom.

E500 HSS Metric Coarse Straight Flute Tap



Extremely versatile - can tap through or blind holes in most materials
Can be used by hand or in a machine
Available as singles or in sets of 3 (including Taper, Second & Bottom taps)
Size range: 1mm-56mm
Full range also available in Metric Fine, UNC, UNF, BSW and BSPF Thread Forms

Spiral Flute Taps

Primarily used for tapping blind holes, with swarf drawn out of the hole, preventing build up in the flutes and possible chipping or breakage.

E507 HSS Metric Coarse Spiral Flute Tap



Suitable for machine tapping of blind holes in most materials
Helical flute directs swarf back out of the hole along the flute
Available in Blue or Bright finish
Size range: 2mm-24mm

Spiral Point Taps

Also known as gun-nosed taps, the spiral point drives the swarf ahead of the tap. Used where through hole tapping is conducted. May also be used in blind hole applications where there is adequate space to accommodate swarf.

E509 HSS Metric Coarse Spiral Point Tap



Designed for machine tapping through holes in most materials
Narrow flutes aid the flow of lubricant
Available in Blue or Bright finish
Size range: 1.6 - 24mm

Cutting Tools

RAWL

SDS Plus



For heavy duty drilling applications in structural concrete and engineering brick. Ideal where rapid spoil removal is essential.

DRILL LENGTH (mm)	AVAILABLE IN DIA. (mm)
110	4, 5, 5.5, 6, 6.5, 6, 8, 10
150	13, 14, 15, 16
160	5, 5.5, 6, 6.5, 6, 7, 8, 9, 10, 11, 12
200	14, 16, 17, 18, 19, 20
210	5, 5.5, 6, 6.5, 6, 7, 8, 9, 10, 11, 12
250	12, 13, 14, 15, 18, 20, 22, 24, 25, 26
260	8, 10, 11
300	12, 13, 14, 16, 18, 20
310	10, 11
350	13
360	10
450	7, 8, 10, 12, 12, 14, 15, 16, 18, 19, 20, 22, 24, 25, 26
600	10, 12, 14, 16, 18, 20, 25
800	16
1000	10, 12, 14, 16, 18, 20, 22, 25
SDS Extension Sleeves	14-16, 20-25

Flat Wood Bits



Designed for use with rotary action power drills. Ideal for hard or soft woods, chipboard etc.

DIA. (mm)
6.5, 8, 10, 13, 14, 16, 18, 20, 22, 25, 28, 32,
+ extension sleeve

Auger Wood Bits



Precision drilling of deep holes in all types of wood.

DIA. (mm)
6.5, 8, 10, 11, 13, 16, 20, 22, 25, 32,

Impactor Plus Masonry Bits



The professional's choice for concrete, engineering brick and other hard masonry -eg. light-weight block, ceramic tiles etc. Heavy-duty professional's masonry drill bit for use with rotary hammer action drills.

DRILL LENGTH (mm)	AVAILABLE IN DIA. (mm)
85	4.5
100	5, 5.5, 6, 6.5, 7
120	8, 10
150	5, 5.5, 6, 6.5, 7, 8, 10, 12, 13, 14, 15, 16
160	18, 19, 20, 22, 25
200	8, 10, 12
300	7, 8, 10, 12, 14, 16, 20, 22, 25
400	10, 12, 13, 14, 16, 18, 20, 25
Extension Sleeves	14-16, 19-25

Hole Saws & Accessories



Suitable for cutting holes in mild steel, brass, cast iron, wood and plastics. Compatible with all major hole saw and arbor brands.

DRILL LENGTH (mm)	AVAILABLE IN DIA. (mm)
Hole Saw	16, 17, 19, 20, 21, 22, 24, 25, 27, 29, 30, 32, 33, 35, 38, 40, 41, 44, 46, 48, 51, 54, 57, 60, 64, 67, 70, 73, 76, 79, 83, 89, 95, 102, 105, 111, 114, 121, 127, 140, 152
Pilot Drill	72, 102
Arbors (Hex mm)	6.25 8 11
Fits Hole Saws (mm)	16-30 16-30 32-152
Arbors (SDS Plus mm)	8 11
Fits Hole Saws (mm)	16-30 32-152
Electricians Hole Saw Kit	Robust moulded case containing 20, 25, 32, 38, 44 and 51mm Hole Saws plus 8mm (5/16") and 11mm (7/16") Hex Arbors
Plumbers Hole Saw Kit	Robust moulded case containing 19, 22, 29, 38, 44 and 57mm Hole Saw plus 8mm (5/16") and 11mm (7/16") Hex Arbors