



These Hi-Tech Tungsten Carbide Tipped Drill Bits are suitable for drilling a wide range of materials, which include hardened steel, cast iron glass, ceramics, and many others.

The drills are designed and manufactured to produce accurate hole sizes and will not be suitable for applications where a plastic plug is required to be inserted in to the hole.

The tungsten carbide tip is manufactured from high grade fine granulated powder and following the sintering process produces an extremely hard material which maintains the cutting tip geometry during repeated use

The tungsten carbide tip is automatically brazed to ensure that an even joint is achieved; other manufacturers braze by hand which can cause porosity and loss of strength in the brazed joint

The tungsten carbide tip is brazed to a chrome vanadium shank using copper as the brazing material; this will allow the drill tip to reach temperatures up to 1100 degrees centigrade during use. Other brazing method will use brass which will melt at a lower temperature of about 900 degrees centigrade

Packed Weight and Dimensions

Code	Description	Weight g	W mm	H mm	L mm
PD-02490	Artu Precision Drill: 3.0 x 70mm	6	23	3	130
PD-02492	Artu Precision Drill: 3.5 x 75mm	7	23	4	130
PD-02500	Artu Precision Drill: 4.0 x 80mm	9	23	4	130
PD-02502	Artu Precision Drill: 4.5 x 85mm	11	23	5	130
PD-02510	Artu Precision Drill: 5.0 x 90mm	13	23	5	130
PD-02512	Artu Precision Drill: 5.5 x 95mm	16	25	6	145
PD-02520	Artu Precision Drill: 6.0 x 100mm	20	25	6	145
PD-02530	Artu Precision Drill: 6.5 x 105mm	24	25	7	150
PD-02540	Artu Precision Drill: 7.0 x 110mm	27	25	7	150
PD-02542	Artu Precision Drill: 7.5 x 115mm	29	25	8	150
PD-02550	Artu Precision Drill: 8.0 x 120mm	35	25	8	165
PD-02552	Artu Precision Drill: 8.5 x 125mm	38	25	9	165
PD-02575	Artu Precision Drill: 9.0 x 130mm	49	35	9	215
PD-02578	Artu Precision Drill: 9.5 x 135mm	55	35	10	220
PD-02580	Artu Precision Drill: 10.0 x 140mm	56	35	10	220

Artu Precision Drills

General Information:

High tolerance on hole sizes
Tungsten Carbide Tipped Drills
For use on hardened and alloy steels
Used in the Aerospace Industry
Will outperform standard Jobber Drills and more expensive Cobalt drills on hard materials
Will drill materials up to 68 Rockwell hardness
Chrome vanadium steel shank for flexibility and toughness
Carbide drill tip manufactured in Europe
High quality German brazing paste
Brazed under hydrogen gas protection to prevent oxidation
Drill tolerance minus 0.05mm

Sharpening:

Use diamond or silicon carbide grinding wheels or silicon carbide/aluminium oxide sharpening stones.
These drills are suitable for producing precision holes in hard materials and should not be used with percussion drills

Drilling Speeds:

Materials	Drilling Speed RPM
Steel 35 – 68 HRC	2000+
Cast Iron	2000+
Glass and Ceramics	300-600