

## ARTU Profi-Line Tungsten Carbide Drills



Set: ABA-02815

These Hi-Tech Tungsten Carbide Drill Bits are suitable for drilling a wide range of materials, which include steel, glass, ceramics, masonry and wood, plus many others.

The tungsten carbide tip is manufactured from high grade fine granulated powder which when sintered produces an extremely hard material which will maintain the cutting tip geometry during repeated use

The tungsten carbide tip is attached to a chrome vanadium shank using copper as the brazing material; this allows the drill tip to reach up to 1100 degrees C during use. (this is a superior method to the usual system which uses brass as the brazing material and will only allow the drill tip to reach approx 900 degrees C during use before failure)

Drill tip geometry utilises a special negative rake which results in no drifting during initial drilling and is impact drill resistant

## Individual Drills

## Packed Weight and Dimensions

Code	Diameter mm	Length mm	Pack Quantity	Weight g	W mm	H mm	L mm
PL-02490	3.0	70	1	6	23	3	130
PL-02492	3.5	75	1	7	23	4	130
PL-02500	4.0	80	1	9	23	4	130
PL-02502	4.5	85	1	11	23	5	130
PL-02510	5.0	90	1	13	23	5	130
PL-02512	5.5	95	1	16	25	6	145
PL-02520	6.0	100	1	20	25	6	145
PL-02530	6.5	105	1	24	25	7	150
PL-02540	7.0	110	1	27	25	7	150
PL-02542	7.5	115	1	29	25	8	150
PL-02550	8.0	120	1	35	25	8	165
PL-02552	8.5	125	1	38	25	9	165
PL-02575	9.0	130	1	49	35	9	215
PL-02578	9.5	135	1	55	35	10	220
PL-02580	10.0	140	1	56	35	10	220

## Drill Sets

## Packed Weight and Dimensions

Code	Drills in Set	Case	Weight g	W mm	H mm	L mm
ABA-02759	4 Piece: 4, 5, 6 & 8mm	Plastic	105	50	20	190
ABA-02765	4 Piece: 5, 6, 6 & 8mm	Plastic	114	50	20	190
ABA-02785	5 Piece: 4, 5, 6, 8 & 10mm	Plastic	170	50	20	190
PL-01420	7 Piece: 4, 5, 6, 7, 8, 10 & 12mm	Plastic	324	100	20	205
ABA-02815	15 Piece: 3 – 10mm in 0.5mm steps	Metal	685	110	35	160

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<b>Material</b>	<b>Directions</b>	<b>RPM</b>
Concrete Slab Concrete Block Masonry and Brick	With or without percussion If you run into steel reinforcing bar in the concrete Continue drilling at a high speed without hammer action	1000
Granite / Stone	With percussion, not necessary to punch or score.	1000
Marble	With or without percussion, use moderate pressure Not necessary to punch or score	1000
Ceramic Tile	Without percussion, must use sharp drill bit, moderate pressure	1000
Baked Ceramic	Without percussion, must use sharp drill bit, slow speed plus liquid coolant	Slow
Glass / Crystal and Mirror	Without percussion, light pressure with liquid coolant. A manual hand drill is recommended or a variable speed drill on slow speed setting	Slow
Wood	Without percussion, any speed, hand drill or drill press	Variable
Plastic	Without percussion, any speed, hand drill or drill press	Variable
Cast Metals	Hand drill or drill press	2000
Hardened Steel	Drill press only	2000
Coolants	TURPENTINE, LIGHT OIL OR WATER	