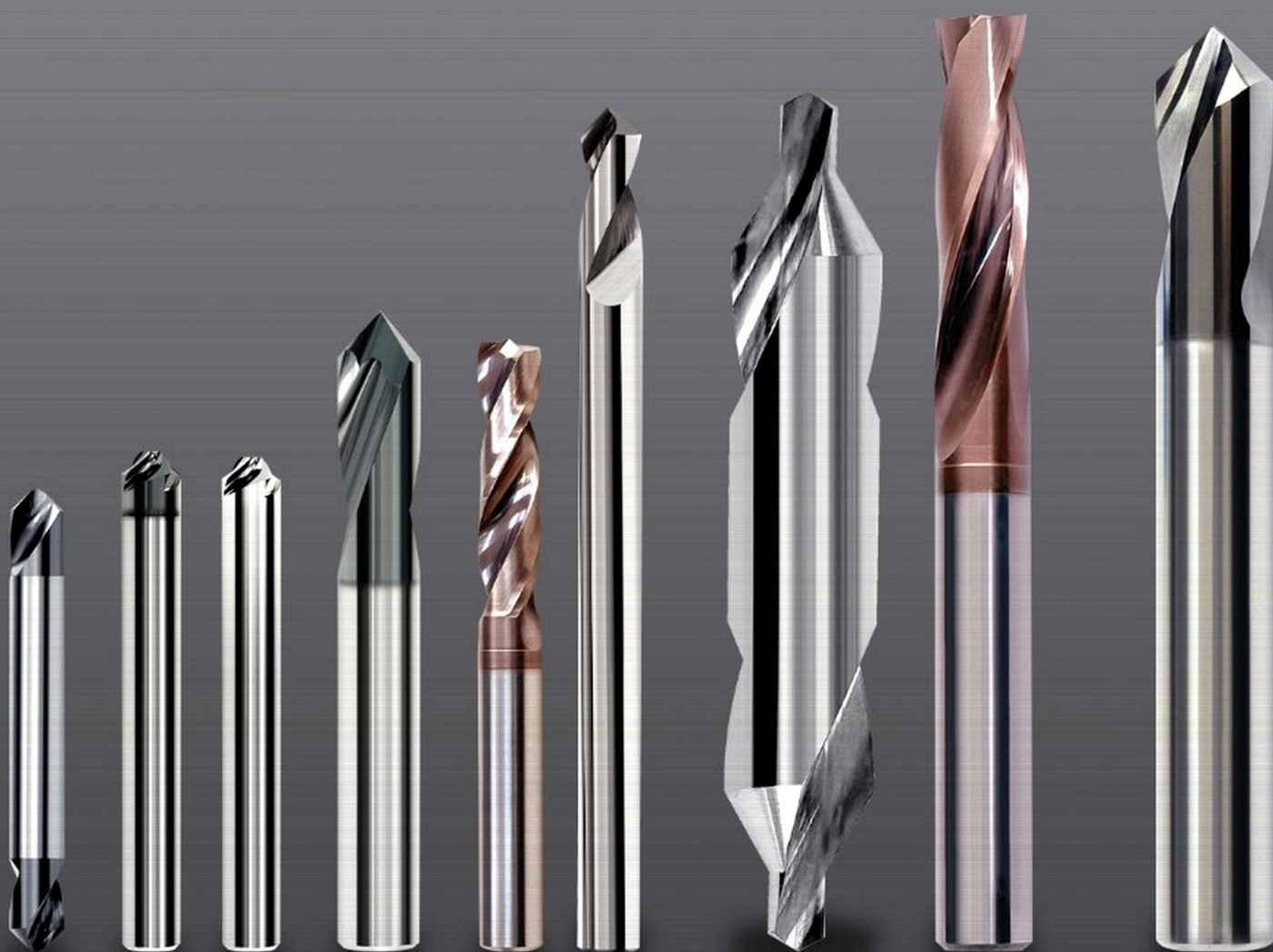
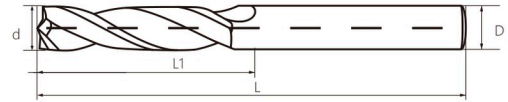


FLAT DRILL
SPOT DRILL
CENTER DRILL
CHAMFER CUTTER
2027~



BPB Solid Carbide Flat-Bottom Spot Drill



Unit:mm

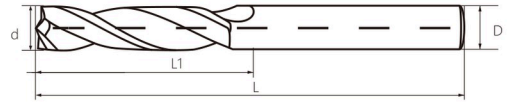
Code	Dia. d	Shank D	Flute L1	Overall L
BPB-1×6×50×4×2F	1.0	4	6	50
BPB-1.1×6×50×4×2F	1.1	4	6	50
BPB-1.2×6×50×4×2F	1.2	4	6	50
BPB-1.3×6×50×4×2F	1.3	4	6	50
BPB-1.4×6×50×4×2F	1.4	4	6	50
BPB-1.5×10×50×4×2F	1.5	4	6	50
BPB-1.6×10×50×4×2F	1.6	4	10	50
BPB-1.7×10×50×4×2F	1.7	4	10	50
BPB-1.8×10×50×4×2F	1.8	4	10	50
BPB-1.9×10×50×4×2F	1.9	4	10	50
BPB-2×14×50×4×2F	2.0	4	14	50
BPB-2.1×14×50×4×2F	2.1	4	14	50
BPB-2.2×14×50×4×2F	2.2	4	14	50
BPB-2.3×14×50×4×2F	2.3	4	14	50
BPB-2.4×14×50×4×2F	2.4	4	14	50
BPB-2.5×14×50×4×2F	2.5	4	14	50
BPB-2.6×14×50×4×2F	2.6	4	14	50
BPB-2.7×14×50×4×2F	2.7	4	14	50
BPB-2.8×14×50×4×2F	2.8	4	14	50
BPB-2.9×14×50×4×2F	2.9	4	14	50
BPB-3×17×50×4×2F	3.0	4	17	50
BPB-3.1×17×50×4×2F	3.1	4	17	50
BPB-3.2×17×50×4×2F	3.2	4	17	50
BPB-3.3×17×50×4×2F	3.3	4	17	50
BPB-3.4×17×50×4×2F	3.4	4	17	50
BPB-3.5×17×50×4×2F	3.5	4	17	50
BPB-3.6×17×50×4×2F	3.6	4	17	50
BPB-3.7×17×50×4×2F	3.7	4	17	50
BPB-3.8×17×50×4×2F	3.8	4	17	50
BPB-3.9×17×50×4×2F	3.9	4	17	50
BPB-4×17×50×4×2F	4.0	4	17	50
BPB-4.1×23×65×6×2F	4.1	6	23	65
BPB-4.2×23×65×6×2F	4.2	6	23	65
BPB-4.3×23×65×6×2F	4.3	6	23	65
BPB-4.4×23×65×6×2F	4.4	6	23	65
BPB-4.5×23×65×6×2F	4.5	6	23	65
BPB-4.6×23×65×6×2F	4.6	6	23	65
BPB-4.7×23×65×6×2F	4.7	6	23	65
BPB-4.8×23×65×6×2F	4.8	6	23	65
BPB-4.9×23×65×6×2F	4.9	6	23	65
BPB-5×23×65×6×2F	5.0	6	23	65
BPB-5.1×27×65×6×2F	5.1	6	27	65
BPB-5.2×27×65×6×2F	5.2	6	27	65
BPB-5.3×27×65×6×2F	5.3	6	27	65
BPB-5.4×27×65×6×2F	5.4	6	27	65

BPB Solid Carbide Flat-Bottom Spot Drill

Unit:mm

Code	Dia. d	Shank D	Flute L1	Overall L
BPB-5.5×27×65×6×2F	5.5	6	27	65
BPB-5.6×27×65×6×2F	5.6	6	27	65
BPB-5.7×27×65×6×2F	5.7	6	27	65
BPB-5.8×27×65×6×2F	5.8	6	27	65
BPB-5.9×27×65×6×2F	5.9	6	27	65
BPB-6×27×65×6×2F	6.0	6	27	65
BPB-6.1×32×75×8×2F	6.1	8	32	75
BPB-6.2×32×75×8×2F	6.2	8	32	75
BPB-6.3×32×75×8×2F	6.3	8	32	75
BPB-6.4×32×75×8×2F	6.4	8	32	75
BPB-6.5×32×75×8×2F	6.5	8	32	75
BPB-6.6×32×75×8×2F	6.6	8	32	75
BPB-6.7×32×75×8×2F	6.7	8	32	75
BPB-6.8×32×75×8×2F	6.8	8	32	75
BPB-6.9×32×75×8×2F	6.9	8	32	75
BPB-7×32×75×8×2F	7.0	8	32	75
BPB-7.1×36×75×8×2F	7.1	8	36	75
BPB-7.2×36×75×8×2F	7.2	8	36	75
BPB-7.3×36×75×8×2F	7.3	8	36	75
BPB-7.4×36×75×8×2F	7.4	8	36	75
BPB-7.5×36×75×8×2F	7.5	8	36	75
BPB-7.6×36×75×8×2F	7.6	8	36	75
BPB-7.7×36×75×8×2F	7.7	8	36	75
BPB-7.8×36×75×8×2F	7.8	8	36	75
BPB-7.9×36×75×8×2F	7.9	8	36	75
BPB-8×36×75×8×2F	8.0	8	36	75
BPB-8.1×41×85×10×2F	8.1	10	41	85
BPB-8.2×41×85×10×2F	8.2	10	41	85
BPB-8.3×41×85×10×2F	8.3	10	41	85
BPB-8.4×41×85×10×2F	8.4	10	41	85
BPB-8.5×41×85×10×2F	8.5	10	41	85
BPB-8.6×41×85×10×2F	8.6	10	41	85
BPB-8.7×41×85×10×2F	8.7	10	41	85
BPB-8.8×41×85×10×2F	8.8	10	41	85
BPB-8.9×41×85×10×2F	8.9	10	41	85
BPB-9×41×85×10×2F	9.0	10	41	85
BPB-9.1×45×85×10×2F	9.1	10	45	85
BPB-9.2×45×85×10×2F	9.2	10	45	85
BPB-9.3×45×85×10×2F	9.3	10	45	85
BPB-9.4×45×85×10×2F	9.4	10	45	85
BPB-9.5×45×85×10×2F	9.5	10	45	85
BPB-9.6×45×85×10×2F	9.6	10	45	85
BPB-9.7×45×85×10×2F	9.7	10	45	85
BPB-9.8×45×85×10×2F	9.8	10	45	85
BPB-9.9×45×85×10×2F	9.9	10	45	85
BPB-10×45×85×10×2F	10.0	10	45	85
BPB-10.1×50×95×12×2F	10.1	12	50	95
BPB-10.2×50×95×12×2F	10.2	12	50	95
BPB-10.3×50×95×12×2F	10.3	12	50	95
BPB-10.4×50×95×12×2F	10.4	12	50	95
BPB-10.5×50×95×12×2F	10.5	12	50	95
BPB-10.6×50×95×12×2F	10.6	12	50	95
BPB-10.7×50×95×12×2F	10.7	12	50	95
BPB-10.8×50×95×12×2F	10.8	12	50	95

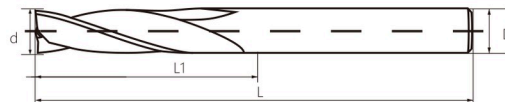
BPB Solid Carbide Flat-Bottom Spot Drill



Unit:mm

Code	Dia. d	Shank D	Flute L1	Overall L
BPB-10.9×50×95×12×2F	10.9	12	50	95
BPB-11×50×95×12×2F	11.0	12	50	95
BPB-11.1×54×95×12×2F	11.1	12	54	95
BPB-11.2×54×95×12×2F	11.2	12	54	95
BPB-11.3×54×95×12×2F	11.3	12	54	95
BPB-11.4×54×95×12×2F	11.4	12	54	95
BPB-11.5×54×95×12×2F	11.5	12	54	95
BPB-11.6×54×95×12×2F	11.6	12	54	95
BPB-11.7×54×95×12×2F	11.7	12	54	95
BPB-11.8×54×95×12×2F	11.8	12	54	95
BPB-11.9×54×95×12×2F	11.9	12	54	95
BPB-12×54×95×12×2F	12.0	12	54	95

FBD Solid Carbide Flat-Bottom Drill



Unit:mm

Code	Dia. d	Shank D	Flute L1	Overall L
FBD-0.5×4×50×3×2F	0.5	3	4	50
FBD-0.6×4×50×3×2F	0.6	3	4	50
FBD-0.7×4×50×3×2F	0.7	3	4	50
FBD-0.8×4×50×3×2F	0.8	3	4	50
FBD-0.9×4×50×3×2F	0.9	3	4	50
FBD-1×4×50×3×2F	1	3	4	50
FBD-1.1×6×50×3×2F	1.1	3	6	50
FBD-1.2×6×50×3×2F	1.2	3	6	50
FBD-1.3×6×50×3×2F	1.3	3	6	50
FBD-1.4×6×50×3×2F	1.4	3	6	50
FBD-1.5×6×50×3×2F	1.5	3	6	50
FBD-1.6×10×50×3×2F	1.6	3	10	50
FBD-1.7×10×50×3×2F	1.7	3	10	50
FBD-1.8×10×50×3×2F	1.8	3	10	50
FBD-1.9×10×50×3×2F	1.9	3	10	50
FBD-2×14×50×4×2F	2	4	14	50
FBD-2.1×14×50×4×2F	2.1	4	14	50
FBD-2.2×14×50×4×2F	2.2	4	14	50
FBD-2.3×14×50×4×2F	2.3	4	14	50
FBD-2.4×14×50×4×2F	2.4	4	14	50
FBD-2.5×14×50×4×2F	2.5	4	14	50
FBD-2.6×14×50×4×2F	2.6	4	14	50
FBD-2.7×14×50×4×2F	2.7	4	14	50
FBD-2.8×14×50×4×2F	2.8	4	14	50
FBD-2.9×14×50×4×2F	2.9	4	14	50
FBD-3×17×50×4×2F	3	4	17	50
FBD-3.1×17×50×4×2F	3.1	4	17	50
FBD-3.2×17×50×4×2F	3.2	4	17	50
FBD-3.3×17×50×4×2F	3.3	4	17	50
FBD-3.4×17×50×4×2F	3.4	4	17	50
FBD-3.5×17×50×4×2F	3.5	4	17	50
FBD-3.6×17×50×4×2F	3.6	4	17	50
FBD-3.7×17×50×4×2F	3.7	4	17	50
FBD-3.8×17×50×4×2F	3.8	4	17	50
FBD-3.9×17×50×4×2F	3.9	4	17	50
FBD-4×17×50×4×2F	4	4	17	50
FBD-4.1×23×65×6×2F	4.1	6	23	65
FBD-4.2×23×65×6×2F	4.2	6	23	65
FBD-4.3×23×65×6×2F	4.3	6	23	65
FBD-4.4×23×65×6×2F	4.4	6	23	65
FBD-4.5×23×65×6×2F	4.5	6	23	65
FBD-4.6×23×65×6×2F	4.6	6	27	65
FBD-4.7×23×65×6×2F	4.7	6	23	65
FBD-4.8×23×65×6×2F	4.8	6	23	65
FBD-4.9×23×65×6×2F	4.9	6	23	65



FBD Solid Carbide Flat-Bottom Drill

Unit:mm

Code	Dia. d	Shank D	Flute L1	Overall L
FBD-5×23×65×6×2F	5	6	23	65
FBD-5.1×27×65×6×2F	5.1	6	27	65
FBD-5.2×27×65×6×2F	5.2	6	27	65
FBD-5.3×27×65×6×2F	5.3	6	27	65
FBD-5.4×27×65×6×2F	5.4	6	27	65
FBD-5.5×27×65×6×2F	5.5	6	27	65
FBD-5.6×27×65×6×2F	5.6	6	27	65
FBD-5.7×27×65×6×2F	5.7	6	27	65
FBD-5.8×27×65×6×2F	5.8	6	27	65
FBD-5.9×27×65×6×2F	5.9	6	27	65
FBD-6×27×65×6×2F	6	6	27	65
FBD-6.1×32×75×8×2F	6.1	8	32	75
FBD-6.2×32×75×8×2F	6.2	8	32	75
FBD-6.3×32×75×8×2F	6.3	8	32	75
FBD-6.4×32×75×8×2F	6.4	8	32	75
FBD-6.5×32×75×8×2F	6.5	8	32	75
FBD-6.6×32×75×8×2F	6.6	8	32	75
FBD-6.7×32×75×8×2F	6.7	8	32	75
FBD-6.8×32×75×8×2F	6.8	8	32	75
FBD-6.9×32×75×8×2F	6.9	8	32	75
FBD-7×32×75×8×2F	7	8	32	75
FBD-7.1×36×75×8×2F	7.1	8	36	75
FBD-7.2×36×75×8×2F	7.2	8	36	75
FBD-7.3×36×75×8×2F	7.3	8	36	75
FBD-7.4×36×75×8×2F	7.4	8	36	75
FBD-7.5×36×75×8×2F	7.5	8	36	75
FBD-7.6×36×75×8×2F	7.6	8	36	75
FBD-7.7×36×75×8×2F	7.7	8	36	75
FBD-7.8×36×75×8×2F	7.8	8	36	75
FBD-7.9×36×75×8×2F	7.9	8	36	75
FBD-8×36×75×8×2F	8	8	36	75
FBD-8.1×41×85×10×2F	8.1	10	41	85
FBD-8.2×41×85×10×2F	8.2	10	41	85
FBD-8.3×41×85×10×2F	8.3	10	41	85
FBD-8.4×41×85×10×2F	8.4	10	41	85
FBD-8.5×41×85×10×2F	8.5	10	41	85
FBD-8.6×41×85×10×2F	8.6	10	41	85
FBD-8.7×41×85×10×2F	8.7	10	41	85
FBD-8.8×41×85×10×2F	8.8	10	41	85
FBD-8.9×41×85×10×2F	8.9	10	41	85
FBD-9×41×85×10×2F	9	10	41	85
FBD-9.1×45×85×10×2F	9.1	10	45	85
FBD-9.2×45×85×10×2F	9.2	10	45	85
FBD-9.3×45×85×10×2F	9.3	10	45	85
FBD-9.4×45×85×10×2F	9.4	10	45	85
FBD-9.5×45×85×10×2F	9.5	10	45	85
FBD-9.6×45×85×10×2F	9.6	10	45	85
FBD-9.7×45×85×10×2F	9.7	10	45	85
FBD-9.8×45×85×10×2F	9.8	10	45	85
FBD-9.9×45×85×10×2F	9.9	10	45	85
FBD-10×45×85×10×2F	10	10	45	85
FBD-10.1×50×95×12×2F	10.1	12	50	95
FBD-10.2×50×95×12×2F	10.2	12	50	95
FBD-10.3×50×95×12×2F	10.3	12	50	95

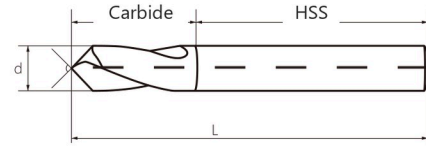
FBD Solid Carbide Flat-Bottom Drill

Unit:mm

Code	Dia. d	Shank D	Flute L1	Overall L
FBD-10.4×50×95×12×2F	10.4	12	50	95
FBD-10.5×50×95×12×2F	10.5	12	50	95
FBD-10.6×50×95×12×2F	10.6	12	50	95
FBD-10.7×50×95×12×2F	10.7	12	50	95
FBD-10.8×50×95×12×2F	10.8	12	50	95
FBD-10.9×50×95×12×2F	10.9	12	50	95
FBD-11×50×95×12×2F	11	12	50	95
FBD-11.1×54×95×12×2F	11.1	12	54	95
FBD-11.2×54×95×12×2F	11.2	12	54	95
FBD-11.3×54×95×12×2F	11.3	12	54	95
FBD-11.4×54×95×12×2F	11.4	12	54	95
FBD-11.5×54×95×12×2F	11.5	12	54	95
FBD-11.6×54×95×12×2F	11.6	12	54	95
FBD-11.7×54×95×12×2F	11.7	12	54	95
FBD-11.8×54×95×12×2F	11.8	12	54	95
FBD-11.9×54×95×12×2F	11.9	12	54	95
FBD-12×54×95×12×2F	12	12	54	95
FBD-12.1×57×100×14×2F	12.1	14	57	100
FBD-12.2×57×100×14×2F	12.2	14	57	100
FBD-12.3×57×100×14×2F	12.3	14	57	100
FBD-12.4×57×100×14×2F	12.4	14	57	100
FBD-12.5×57×100×14×2F	12.5	14	57	100
FBD-12.6×59×100×14×2F	12.6	14	59	100
FBD-12.7×59×100×14×2F	12.7	14	59	100
FBD-12.8×59×100×14×2F	12.8	14	59	100
FBD-12.9×59×100×14×2F	12.9	14	59	100
FBD-13×59×100×14×2F	13	14	59	100
FBD-13.1×61×105×14×2F	13.1	14	61	105
FBD-13.2×61×105×14×2F	13.2	14	61	105
FBD-13.3×61×105×14×2F	13.3	14	61	105
FBD-13.4×61×105×14×2F	13.4	14	61	105
FBD-13.5×61×105×14×2F	13.5	14	61	105
FBD-13.6×63×105×14×2F	13.6	14	63	105
FBD-13.7×63×105×14×2F	13.7	14	63	105
FBD-13.8×63×105×14×2F	13.8	14	63	105
FBD-13.9×63×105×14×2F	13.9	14	63	105
FBD-14×63×105×14×2F	14	14	63	105
FBD-14.5×65×110×16×2F	14.5	16	65	110
FBD-15×68×110×16×2F	15	16	68	110
FBD-15.5×70×120×16×2F	15.5	16	70	120
FBD-16×72×120×16×2F	16	16	72	120
FBD-16.5×75×125×16×2F	16.5	16	75	125
FBD-17×77×125×16×2F	17	16	77	125
FBD-17.5×79×130×16×2F	17.5	16	79	130
FBD-18×81×130×16×2F	18	16	81	130
FBD-18.5×84×135×16×2F	18.5	16	84	135
FBD-19×86×135×16×2F	19	16	86	135
FBD-19.5×88×145×16×2F	19.5	16	88	145
FBD-20×90×145×20×2F	20	20	90	145

* Shank diameters of 12 and below can be produced to any accuracy within 0.05.

HC Brazed Carbide Spot Drill

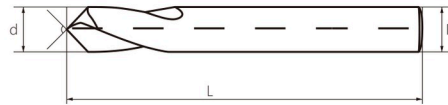


Unit:mm

Code	Dia. d	Angle	Overall L
HC-D4A90×50×2F	4.0	90	50
HC-D6A90×50×2F	6.0	90	50
HC-D8A90×60×2F	8.0	90	60
HC-D10A90×75×2F	10.0	90	75
HC-D12A90×75×2F	12.0	90	75
HC-D14A90×100×2F	14.0	90	100
HC-D16A90×100×2F	16.0	90	100
HC-D4A90×100×2F	4.0	90	100
HC-D6A90×100×2F	6.0	90	100
HC-D8A90×100×2F	8.0	90	100
HC-D10A90×150×2F	10.0	90	150
HC-D12A90×150×2F	12.0	90	150
HC-D4A120×50×2F	4.0	120	50
HC-D6A120×50×2F	6.0	120	50
HC-D8A120×60×2F	8.0	120	60
HC-D10A120×75×2F	10.0	120	75
HC-D12A120×75×2F	12.0	120	75

* Lateral machining is not allowed. Use for axial chamfering and spotting only.

STAM Solid Carbide Spot Drill

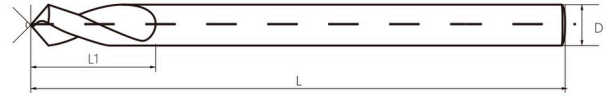


Unit:mm

Code	Dia. d	Angle	Shank D	Overall L
STAM260-0400	4	60°	4	50
STAM260-0500	5	60°	5	50
STAM260-0600	6	60°	6	50
STAM260-0800	8	60°	8	60
STAM260-1000	10	60°	10	75
STAM260-1200	12	60°	12	75
STAM260-1400	14	60°	14	75
STAM260-1600	16	60°	16	100
STAM290-0400	4	90°	4	50
STAM290-0500	5	90°	5	50
STAM290-0600	6	90°	6	50
STAM290-0800	8	90°	8	60
STAM290-1000	10	90°	10	75
STAM290-1200	12	90°	12	75
STAM290-1400	14	90°	14	75
STAM290-1600	16	90°	16	100
STAM2120-0400	4	120°	4	50
STAM2120-0500	5	120°	5	50
STAM2120-0600	6	120°	6	50
STAM2120-0800	8	120°	8	60
STAM2120-1000	10	120°	10	75
STAM2120-1200	12	120°	12	75
STAM2120-1400	14	120°	14	75
STAM2120-1600	16	120°	16	100
STAM2145-0400	4	145°	4	50
STAM2145-0500	5	145°	5	50
STAM2145-0600	6	145°	6	50
STAM2145-0800	8	145°	8	60
STAM2145-1000	10	145°	10	75
STAM2145-1200	12	145°	12	75
STAM2145-1400	14	145°	14	75
STAM2145-1600	16	145°	16	100

Applications: stainless steel, alloy steel

SPT HSS Spot Drill

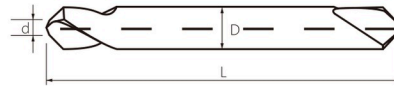


Unit:mm

Code	Angle	Shank D	Flute L1	Overall L
60SPT2	60	2	8	49
60SPT3	60	3	10	50
60SPT4	60	4	12	52
60SPT5	60	5	15	60
60SPT6	60	6	20	66
60SPT8	60	8	25	79
60SPT10	60	10	25	89
60SPT12	60	12	30	102
60SPT16	60	16	35	115
60SPT20	60	20	40	131
90SPT2	90	2	8	49
90SPT3	90	3	10	50
90SPT4	90	4	12	52
90SPT5	90	5	15	60
90SPT6	90	6	20	66
90SPT8	90	8	25	79
90SPT10	90	10	25	89
90SPT12	90	12	30	102
90SPT16	90	16	35	115
90SPT20	90	20	40	131
90SPT25	90	25	45	150
120SPT2	120	2	8	49
120SPT3	120	3	10	50
120SPT4	120	4	12	52
120SPT5	120	5	15	60
120SPT6	120	6	20	66
120SPT8	120	8	25	79
120SPT10	120	10	25	89
120SPT12	120	12	30	102
120SPT16	120	16	35	115
120SPT20	120	20	40	131

* Selecting a coating suited to the machining conditions further extends tool life.

SPC HSS Spot Drill

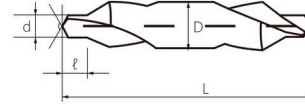


Unit:mm

Code	Dia. d	Shank D	Overall L
60SPC0.8×3	0.8	3	35
60SPC1.0×3	1	3	35
60SPC1.5×4	1.5	4	40
60SPC2.0×6	2	6	50
60SPC2.5×8	2.5	8	60
60SPC3.0×10	3	10	70
60SPC0.8×3TICN	0.8	3	35
60SPC1.0×3TICN	1	3	35
60SPC1.5×4TICN	1.5	4	40
60SPC2.0×6TICN	2	6	50
60SPC2.5×8TICN	2.5	8	60
60SPC3.0×10TICN	3	10	70
90SPC0.8×3	0.8	3	35
90SPC1.0×3	1	3	35
90SPC1.5×4	1.5	4	40
90SPC2.0×6	2	6	50
90SPC2.5×8	2.5	8	60
90SPC3.0×10	3	10	70
90SPC0.8×3TICN	0.8	3	35
90SPC1.0×3TICN	1	3	35
90SPC1.5×4TICN	1.5	4	40
90SPC2.0×6TICN	2	6	50
90SPC2.5×8TICN	2.5	8	60
90SPC3.0×10TICN	3	10	70

* Selecting a coating suited to the machining conditions further extends tool life.

CD HSS Type-A Center Drill

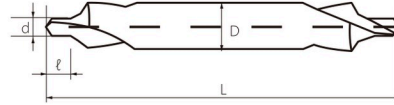


Unit:mm

Code	Angle	Dia. d	Shank D	Flute ℓ	Overall L
CD0.5×4	60	0.5	4	0.6	49
CD0.6×4	60	0.6	4	0.8	50
CD0.7×4	60	0.7	4	0.9	52
CD0.8×4	60	0.8	4	1	60
CD0.9×4	60	0.9	4	1.2	66
CD1.0×4	60	1	4	1.5	79
CD1.5×5	60	1.5	5	2	89
CD1.6×4	60	1.6	4	2	102
CD2.0×5	60	2	5	2.5	115
CD2.0×6	60	2	6	3	131
CD2.5×6	60	2.5	6	3.1	49
CD2.5×6.3	60	2.5	6.3	3.1	50
CD2.5×7.7	60	2.5	7.7	3.6	52
CD2.5×8	60	2.5	8	3.6	60
CD3.0×7.7	60	3	7.7	3.9	66
CD3.0×8	60	3	8	3.9	79
CD3.15×8	60	3.15	8	3.9	89
CD4.0×10	60	4	10	5	102
CD5.0×11	60	5	11	6.3	115
CD5.0×12	60	5	12	6.3	131
CD6.0×16	60	6	16	8	150
CD6.3×16	60	6.3	16	8	49
90CD1.0×4	90	1	4	1.3	37
90CD1.5×5	90	1.5	5	1.9	42
90CD2.0×6	90	2	6	2.6	47
90CD2.5×6	90	2.5	6	3.2	48
90CD3.0×8	90	3	8	3.9	56
90CD3.0×10	90	3	10	3.9	63
90CD4.0×10	90	4	10	5.2	68
LCD1.0×4×100	60	1	4	1.3	100
LCD1.5×5×100	60	1.5	5	1.9	100
LCD2.0×6×100	60	2	6	2.6	100
LCD2.5×6×100	60	2.5	6	3.2	100
LCD3.0×8×100	60	3	8	3.9	100
LCD4.0×10×100	60	4	10	5.2	100

* Selecting a coating suited to the machining conditions further extends tool life.

BCD HSS Type-B Center Drill

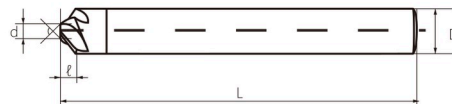


Unit:mm

Code	Dia. d	Shank D	Flute ℓ	Overall L
BCD1.0×6	1	6	1.3	46
BCD1.5×8	1.5	8	1.9	51
BCD1.6×6.3	1.6	6.3	2.1	45
BCD2.0×8	2	8	2.6	50
BCD2.5×10	2.5	10	3.2	56
BCD3.0×10	3	10	3.9	60

* Selecting a coating suited to the machining conditions further extends tool life.

S Solid Carbide Multi-Flute Helical Chamfer End Mill (for Steel)

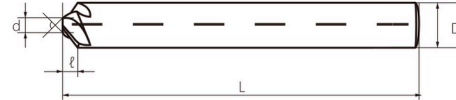


Unit:mm

Code	Tip dia. d	Angle	Shank D	Flutes	Flute l	Overall L
S-D4A30×d0.5×50×2F	0.5	30	4	2	6.5	50
S-D4A30×d2×50×4F	2	30	4	4	3.7	50
S-D6A30×d2×50×4F	2	30	6	4	7.5	50
S-D8A30×d2×60×4F	2	30	8	4	11.2	60
S-D10A30×d2.5×75×4F	2.5	30	10	4	14	75
S-D12A30×d3×75×4F	3	30	12	4	16.8	75
S-D4A60×d0.5×50×2F	0.5	60	4	2	3	50
S-D4A60×d2×50×4F	2	60	4	4	1.7	50
S-D6A60×d2×50×4F	2	60	6	4	3.5	50
S-D8A60×d2×60×4F	2	60	8	4	5.2	60
S-D10A60×d2.5×75×4F	2.5	60	10	4	6.5	75
S-D12A60×d3×75×4F	3	60	12	4	7.8	75
S-D4A90×d0.5×50×2F	0.5	90	4	2	1.8	50
S-D4A90×d2×50×4F	2	90	4	4	1	50
S-D6A90×d0.5×50×2F	0.5	90	6	2	2.8	50
S-D6A90×d2×50×4F	2	90	6	4	2	50
S-D8A90×d1×60×2F	1	90	8	2	3.5	60
S-D8A90×d2×60×4F	2	90	8	4	3	60
S-D10A90×d1×75×2F	1	90	10	2	4.5	75
S-D10A90×d2.5×75×4F	2.5	90	10	4	3.8	75
S-D12A90×d1×75×2F	1	90	12	2	5.5	75
S-D12A90×d3×75×4F	3	90	12	4	4.5	75
S-D16A90×d3×75×4F	3	90	16	4	6.5	75
S-D4A120×d2×50×4F	2	120	4	4	0.6	50
S-D6A120×d2×50×4F	2	120	6	4	1.2	50
S-D8A120×d2×60×4F	2	120	8	4	1.7	60
S-D10A120×d2.5×75×4F	2.5	120	10	4	2.2	75
S-D12A120×d3×75×4F	3	120	12	4	2.6	75

Applications: medium/low carbon steel and quenched materials

AL Solid Carbide Multi-Flute Helical Chamfer End Mill (for Aluminum)



Unit:mm

Code	Tip dia. d	Angle	Shank D	Flutes	Flute ℓ	Overall L
AL-D4A30×d0.5×50×2F	0.5	30	4	2	6.5	50
AL-D4A30×d2×50×4F	2	30	4	4	3.7	50
AL-D6A30×d2×50×4F	2	30	6	4	7.5	50
AL-D8A30×d2×60×4F	2	30	8	4	11.2	60
AL-D10A30×d2.5×75×4F	2.5	30	10	4	14	75
AL-D12A30×d3×75×4F	3	30	12	4	16.8	75
AL-D4A60×d0.5×50×2F	0.5	60	4	2	3	50
AL-D4A60×d2×50×4F	2	60	4	4	1.7	50
AL-D6A60×d2×50×4F	2	60	6	4	3.5	50
AL-D8A60×d2×60×4F	2	60	8	4	5.2	60
AL-D10A60×d2.5×75×4F	2.5	60	10	4	6.5	75
AL-D12A60×d3×75×4F	3	60	12	4	7.8	75
AL-D4A90×d0.5×50×2F	0.5	90	4	2	1.8	50
AL-D4A90×d2×50×4F	2	90	4	4	1	50
AL-D6A90×d0.5×50×2F	0.5	90	6	2	2.8	50
AL-D6A90×d2×50×4F	2	90	6	4	2	50
AL-D8A90×d1×60×2F	1	90	8	2	3.5	60
AL-D8A90×d2×60×4F	2	90	8	4	3	60
AL-D10A90×d1×75×2F	1	90	10	2	4.5	75
AL-D10A90×d2.5×75×4F	2.5	90	10	4	3.8	75
AL-D12A90×d1×75×2F	1	90	12	2	5.5	75
AL-D12A90×d3×75×4F	3	90	12	4	4.5	75
AL-D16A90×d3×75×4F	3	90	16	4	6.5	75
AL-D4A120×d2×50×4F	2	120	4	4	0.6	50
AL-D6A120×d2×50×4F	2	120	6	4	1.2	50
AL-D8A120×d2×60×4F	2	120	8	4	1.7	60
AL-D10A120×d2.5×75×4F	2.5	120	10	4	2.2	75
AL-D12A120×d3×75×4F	3	120	12	4	2.6	75

Applications: aluminum materials



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