



## Solid Carbide Spektra™ Extreme Tool Life Coated Spiral Plunge Inch Router Bits

CNC Operating Spindle Speed: 18,000 RPM / Depth of Cut: 1 x Tool Diameter +

## 2 Flute

Tool No.		Diameter	Wood/Plywood			MDF/Laminate			
Up-Cut	Down-Cut		Feed Rate IPM *	Chip Load Per Tooth	Ramp Down	Feed Rate IPM *	Chip Load Per Tooth	Ramp Down	
_	46229-K **	1/32"	35"	.0010"	17.5"	70"	.0020"	35"	
_	46242-K **	1/32"	35"	.0010"	17.5"	70"	.0020"	35"	
_	46237-K **	1/16"	70"	.0020"	35"	105"	.0030"	52.5"	
_	46213-K **	1/16"	70"	.0020"	35"	105"	.0030"	52.5"	
_	46233-K **	1/16"	70"	.0020"	35"	105"	.0030"	52.5"	
_	46448-K **	1/16"	70"	.0020"	35"	105"	.0030"	52.5"	
46009-K	46403-K **	1/16"	70"	.0020"	35"	105"	.0030"	52.5"	
_	46239-K **	3/32"	80"	.0023"	40"	160"	.0046"	80"	
_	46244-K **	3/32"	80"	.0023"	40"	160"	.0046"	80"	
46127-K	46227-K	1/8"	145"	.0040"	72.5"	180"	.0050"	90"	
46100-K	46200-K	1/8"	145"	.0040"	72.5"	180"	.0050"	90"	
46125-K	46225-K	1/8"	145"	.0040"	72.5"	180"	.0050"	90"	
46101-K	46201-K	3/16"	180"	.0050"	90"	215"	.0060"	107.5"	
46102-K	46202-K	1/4"	180"	.0050"	90"	215"	.0060"	107.5"	
46315-K	46415-K	1/4"	180"	.0050"	90"	215"	.0060"	107.5"	
46316-K	46416-K	1/4"	180"	.0050"	90"	215"	.0060"	107.5"	
46321-K	46421-K	1/4"	180"	.0050"	90"	215"	.0060"	107.5"	
46399-K	46503-K	1/4"	180"	.0050"	90"	215"	.0060"	107.5"	
_	46244-K	1/4"	180"	.0050"	90"	215"	.0060"	107.5"	
46103-K	46203-K	3/8"	230"	.0064"	115"	390"	.0108"	195"	
46320-K	46420-K	3/8"	230"	.0064"	115"	390"	.0108"	195"	
46529-K	46449-K	3/8"	230"	.0064"	115"	390"	.0108"	195"	
46106-K	46206-K	1/2"	200"	.0057"	100"	350"	.0096"	175"	

## 3 Flute

51629-K **	-	0.023"	55"	.0010"	27.5"	110"	.0020"	55"
46001-K	46051-K	1/8"	215"	.0040"	72"	270"	.0050"	90"
_	46053-K	1/8"	215"	.0040"	72"	270"	.0050"	90"
46002-K	46052-K	1/4"	270"	.0050"	90"	325"	.0060"	109"
_	46054-K	1/4"	270"	.0050"	90"	325"	.0060"	109"
46116-K	46216-K	1/2"	300"	.0057"	100"	500"	.0096"	167"
_	46055-K	3/8"	345"	.0064"	115"	580"	.0108"	195"
_	46500-K	3/4"	330"	.009"	110"	360"	.010"	120"

## 4 Flute

_	59706-K	1/4"	55"	.0010"	27.5"	110"	.0020"	55"
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<sup>\*</sup> IPM: Inches Per Minute

Simple Machining Calculations:

To find **RPM:** (SFM x 3.82) / diameter of tool To find **SFM:** 0.262 x diameter of tool x RPM

To find **Feed Rate IPM:** RPM x # of flutes x chip load
To find **Chip Load:** Feed Rate IPM / (RPM x # of flutes)
To find **Ramp Down:** Feed Rate IPM / # of flutes

**† Depth of Cut:** 1 x D Use recommended feed rate

2 x D Reduce feed rate by 25%

3 x D Reduce feed rate by 50%