



## Solid Carbide Spektra™ Extreme Tool Life Coated Spiral Plunge 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"	30"	.0008"	15"	60"	.0015"	30"
_	46237-K **	1/16"	50"	.0016"	25"	100"	.0031"	50"
_	46213-K **	1/16"	50"	.0016"	25"	100"	.0031"	50"
_	46233-K **	1/16"	50"	.0016"	25"	100"	.0031"	50"
46127-K	46227-K	1/8"	60"	.0016"	30"	110"	.0031"	55"
46100-K	46200-K	1/8"	60"	.0016"	30"	110"	.0031"	55"
46125-K	46225-K	1/8"	60"	.0016"	30"	110"	.0031"	55"
46101-K	46201-K	3/16"	80"	.0024"	40"	160"	.0047"	80"
_	46211-K	5mm	80"	.0024"	40"	160"	.0047"	80"
46102-K	46202-K	1/4"	60"	.0016"	30"	110"	.0031"	55"
46315-K	46415-K	1/4"	60"	.0016"	30"	110"	.0031"	55"
46316-K	46416-K	1/4"	60"	.0016"	30"	110"	.0031"	55"
46321-K	46421-K	1/4"	60"	.0016"	30"	110"	.0031"	55"
46399-K	_	1/4"	60"	.0016"	30"	110"	.0031"	55"
_	46203-K	3/8"	230"	.0064"	115"	390"	.0108"	195"
46320-K	46420-K	3/8"	230"	.0064"	115"	390"	.0108"	195"
46106-K	46206-K	1/2"	200"	.0057"	100"	350"	.0096"	175"

## 3 Flute

4600	01-K	46051-K	1/8"	90"	.0016"	30"	160"	.0031"	27"
4600	02-K	46052-K	1/4"	90"	.0016"	30"	160"	.0031"	27"
461	16-K	46216-K	1/2"	300"	.0057"	100"	500"	.0096"	167"

<sup>\*</sup> IPM: Inches Per Minute

## † Depth of Cut:

1 x D Use recommended chip load

2 x D Reduce chip load by 25%

3 x D Reduce chip load by 50%

Simple Machining Calculations:

To find **RPM:** (SFM  $\times$  3.82) / diameter of tool To find **SFM:** 0.262  $\times$  diameter of tool  $\times$  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

<sup>\*\*</sup> AWARNING: Due to the extremely small diameters involved, bits are not guaranteed against breakage. Please excercise caution to the accurate calculations of all feed and speed rates.