



Up-Cut

46240

46241

4

2 Flute Solid Carbide Spiral Plunge For Solid Wood Router Bits

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

Diameter	Softwood/Hardwood	
2 Flute	Feed Rate IPM*	Chip Load Per Tooth
1/8" (0.125)	110" - 180"	0.003" - 0.005"
3/16" (0.1875)	150" - 210"	0.004" - 0.006"
7/32" (0.21875)	150" - 210"	0.004" - 0.006"
1/4" (0.25)	180" - 250"	0.005" - 0.007"
5/16" (0.3125)	180" - 250"	0.005" - 0.007"
3/8" (0.375)	210" - 290"	0.006" - 0.008"
1/2" (0.50)	250" - 320"	0.007" - 0.009"

46245	46345	3/16"
46247	_	7/32"
46248	46348	1/4"
46249	46349	1/4"
46250	—	1/4"
46253	46353	5/16"
46257	46357	3/8"
46259	46359	3/8"
46259S	—	3/8"
46261	46361	1/2"
46263	46363	1/2"
—	46365	1/4"

Tool Reference #'s

Down-Cut

46340

46341

Dia.

1/8"

1/8"

*IPM Inches per minute

† 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%

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

Disclaimer: It is important to understand that these values are only recommendations.