



2 Flute Solid Carbide Spiral Plunge with Corner Radius Router Bit

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

Diameter	Soft Wood		Hard Wood		MDF		Hard / Soft Plastics		Aluminum	
	Feed Rate IPM*	Chip Load Per Tooth	Feed Rate IPM*	Chip Load Per Tooth	Feed Rate IPM*	Chip Load Per Tooth	Feed Rate IPM*	Chip Load Per Tooth	Feed Rate IPM*	Chip Load Per Tooth
2 Flute										
1/4" (0.25)	250" - 320"	0.007" - 0.009"	180" - 250"	0.005" - 0.007"	210" - 290"	0.006" - 0.008"	150" - 210"	0.004" - 0.006"	150" - 210"	0.004" - 0.006"
1/2" (0.50)	330" - 425"	0.009" - 0.011"	240" - 330"	0.007" - 0.009"	280" - 390"	0.008" - 0.010"	200" - 280"	0.006" - 0.008"	200" - 280"	0.006" - 0.008"

Tool Reference #'s	Dia.
2 Flute	
46460	1/4"
46462	1/2"

*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.