



2 Flute Solid Carbide Foam Cutting Spiral Router Bits

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

	Diameter										
	Ø1/8" (0.125) / 3mm		Ø3/16" (0.1875)		Ø1/4" (0.250) / 6mm		Ø5/16" (0.3125)		Ø3/8" (0.375)		
Material	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	
Foam	100" - 140"	0.002" - 0.004"	100" - 140"	0.002" - 0.004"	140" - 210"	0.004" - 0.006"	140" - 210"	0.004" - 0.006"	140" - 210"	0.004" - 0.006"	

*SFM Surface feet per minute **IPM Inches per minute

Tool Reference #'s	Diameter		
Square End			
46269	1/8"		
46270	1/8"		
46271	3/16"		
46272	1/4"		
46273	3/16"		
46274	1/4"		
46275	1/4"		
46276	5/16"		
46277	3/8"		
46278	3/8"		
46279	3/8"		
46562	1/8"		
46564	1/8"		
46566	1/4"		
48442	3mm		
48444	6mm		
Ball End			
46030	1/8"		
46032	1/4"		

2 x D Reduce feed rate by 25% 3 x D Reduce feed rate by 50%

- 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

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

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

Simple Machining Calculations: