



## Solid Carbide Slow Spiral Single and Double 'O' Flute Acrylic Cutting Router Bits Operating RPM: 18,000 / Depth of Cut: 1 x Tool Diameter †

Feed Rate Chip Load Ramp Per Tooth **Diameter** IPM\* Down **Single Flute** 1/4" (0.250) 145" - 180" 0.008" - 0.010" 145" - 180" 2 Flute 1/4" (0.250) 290" - 360" 0.008" - 0.010" 145" - 180" 1/2" (0.500) 430" - 500" 0.012" - 0.014" 215" - 250" 3 Flute 210" - 320" 3/8" (0.375) 0.004" - 0.006" 70" - 107" 320" - 430" 0.006" - 0.008" 107" - 143" 1/2" (0.500)

Tool Reference #'s			
Tool No.		Flutes	Dia.
Up-Cut	Down-Cut		
46327	46427	1	1/4"
46313	46413	2	1/4"
46311	46411	2	1/4"
46391	46492	2	1/2"
-	46430	3	3/8"
46330	46431	3	3/8"
46332	46432	3	1/2"
46334	46434	3	1/2"

\* 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  $\ensuremath{\textbf{RPM:}}$  (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.