



Soft Aluminum Cutting ZrN Coated Router Bits

	3/16" (0.1875")		1/4" (0.250")	
Acrylonitrile-Butadiene-Styrene (ABS), Aluminum Sheet (3003 grade) Brass, Bronze, Copper, Gold, Silver, Polycarbonate (Lexan™)	IPM*	Chip Load Per Tooth (Based on 13,000 RPM)	IPM*	Chip Load Per Tooth (Based on 10,000 RPM)
	90"	0.007"	80"	0.008"

^{*} **IPM** Inches per minute

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)

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%

Disclaimer: These values are based on test results. Your results may vary.

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

Tool Reference #'s

Tool No. Dia.

51450 3/16"
51452 1/4"