



Solid Carbide CNC High Performance 90° 'V' Spiral Drills with AITiN Coating Router Bit / End Mill Recommendations

			Chip Load Per Tooth		
Material Group	Speed SFM*	Ø1/8"	Ø1/4"	Ø3/8"	Ø1/2"
Steel	130-150	0.002 - 0.004	0.003 - 0.005	0.004 - 0.006	0.005 - 0.007
Stainless Steel	80-120	0.002 - 0.004	0.003 - 0.005	0.004 - 0.006	0.005 - 0.007
Cast Irons	115-145	0.003 - 0.005	0.004 - 0.006	0.005 - 0.007	0.006 - 0.008
Titanium	75-90	0.002 - 0.004	0.003 - 0.005	0.004 - 0.006	0.005 - 0.007
Composites	200-300	0.003 - 0.005	0.004 - 0.006	0.005 - 0.007	0.006 - 0.008
Plastics	350-500	0.003 - 0.006	0.005 - 0.007	0.007 - 0.009	0.008 - 0.010

SFM* Surface feet per minute

Replace or Resharpen drills at first sign of dulling or rounding.

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.

