

Speeds & Feeds

Product Table: Variable Helix End Mills for High Temp Alloys - Ball Characteristics: 4x Length of Cut, 4 Flutes Series: 8113xx-C6

Material	Hardness (HBn)	SFM	Chip Load (IPT) By Cutter Diameter														Depth of Cut	
				0.015	0.031	0.047	0.062	0.078	0.093	0.125	0.187	0.250	0.312	0.375	0.500	Radial	Axial	
Stainless Steels : 40x, 41x, 42x, 43x, 44x, 13-8, 15-5, 15-7, 17-4, 17-7	275 - 300	160	Slotting	.00005	.00009	.00014	.00019	.00024	.00028	.00038	.00057	.00076	.00099	.00119	.00159	1x Dia	.3x Dia	
	300 - 350	140																
Tool Steels: D, H, M, T, S series	350 - 400	100																
	400 - 425	80	Roughing	.00006	.00012	.00018	.00024	.00030	.00036	.00048	.00072	.00096	.00126	.00152	.00202	.3x Dia	.5x7x Dia	
Titanium: All alloys	275 - 300	200																
	300 - 350	125																
	350 - 400	75	Finishing	.00008	.00016	.00024	.00031	.00039	.00047	.00063	.00094	.00126	.00165	.00199	.00265	.1x Dia	.5x - 1x Dia	
	400 - 425	75																
Nickel Alloys: Inconel, Hastelloy, Waspalloy, Monel, Nimonic, Haynes, Discoloy, Incoloy	275 - 300	80																
	300 - 350	60	Max	.00009	.00019	.00028	.00038	.00047	.00056	.00076	.00113	.00151	.00198	.00239	.00318	-	-	
	350 - 400	50																
	400 - 425	40																

Please note:

All posted speed and feed parameters are suggested starting values that may be increased given optimal setup conditions. If less than minimum Axial or Radial DOC values are used, increased feed rates are possible. If greater than maximum Axial or Radial DOC values are used, decreased feed rates are yeld. If you require additional information, Harvey Tool has a team of technical experts available to assist you through even the most challenging applications. Please contact us at 800-645-5609 or Harveytech@harveyperformance.com.

WARNING: Cutting tools may shatter under improper use. Government regulations require use of safety glasses and other appropriate safety equipment in the vicinity of use.