

Speeds & Feeds

Product Table: End Mills for Steels & High Temp Alloys - Square - 5 Flute - Variable Helix

Characteristics: 1x LOC, 5 flutes

 $\textbf{Series:} \ \mathsf{VHS-XXX-X-XXX}$

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	
Tool Steels: D, H, M, T, S series	350 - 400	100	Slotting	.00006	.00012	.00018	.00024	.00030	.00035	.00047	.00071	.00095	.00124	.00149	.00199	1x Dia	.4x Dia	
	400 - 425	80																
Stainless Steels: 40x, 41x, 42x, 43x, 44x, 13-8, 15-5, 15-7, 17-4, 17-7	275 - 300	160																
	300 - 350	140	Roughing	.00007	.00015	.00023	.00030	.00038	.00045	.00060	.00090	.00121	.00158	.00190	.00254	.4x Dia	.5x7x Dia	
Titanium: All alloys	275 - 300	200																
	300 - 350	125																
	350 - 400	75	Finishing	.00009	.00020	.00030	.00039	.00049	.00059	.00079	.00118	.00158	.00207	.00249	.00332	.1x Dia	.5x8x Dia	
	400 - 425	75																
Nickel Alloys: Inconel, Hastelloy, Waspalloy, Monel, Nimonic, Haynes, Discoloy, Incoloy	275 - 300	80																
	300 - 350	60		.00011	.00024	.00036	.00047	.00059	.00071	.00095	.00142	.00190	.00249	.00299	.00398	-	-	
	350 - 400	50	Max															
	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 may be needed.

If you require additional information, Micro100 has a team of technical experts available to assist you through even the most challenging applications. Please contact us at 800-421-8065 or micro100tech@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.