



Speeds & Feeds

Product Table: Variable Helix End Mills for High Temp Alloys - Finishers - Square
Characteristics: 6x Length of Cut
Series: 8685xx-C6, 8686xx-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	400	Finishing	.00007	.00015	.00022	.00030	.00037	.00044	.00060	.00089	.00119	.00156	.00187	.00250	< .06x Dia	.5x - 6x Dia
	300 - 350	350															
Tool Steels: D , H, M, T, S series	300 - 350	500	Finishing	.00007	.00015	.00022	.00030	.00037	.00044	.00060	.00089	.00119	.00156	.00187	.00250	< .06x Dia	.5x - 6x Dia
	350 - 400	250	Finishing	.00006	.00012	.00018	.00024	.00030	.00035	.00048	.00071	.00095	.00125	.00150	.00200	< .06x Dia	.5x - 6x Dia
	400 - 540	200	Finishing	.00005	.00010	.00015	.00019	.00024	.00029	.00039	.00058	.00077	.00101	.00122	.00162	< .06x Dia	.5x - 6x Dia
Titanium: All alloys	275 - 300	300	Finishing	.00003	.00007	.00010	.00013	.00016	.00020	.00026	.00039	.00053	.00069	.00083	.00111	< .06x Dia	.5x - 6x Dia
	300 - 350	200															
	350 - 400	150	Finishing	.00003	.00005	.00008	.00010	.00013	.00016	.00021	.00032	.00042	.00055	.00066	.00089	< .06x Dia	.5x - 6x Dia
	400 - 425	100															
Nickel Alloys: Inconel, Hastelloy, Waspalloy, Monel, Nimonic, Haynes, Discoloy, Incoloy	275 - 300	150	Finishing	.00001	.00002	.00003	.00005	.00006	.00007	.00009	.00014	.00018	.00024	.00029	.00038	< .04x Dia	.5x - 6x Dia
	300 - 350	100															
	350 - 400	80	Finishing	.00001	.00002	.00003	.00004	.00005	.00005	.00007	.00011	.00015	.00019	.00023	.00031	< .04x Dia	.5x - 6x Dia
	400 - 425	60															

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, 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 **tech@harveytool.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.