



Speeds & Feeds

**Product Table:** Variable Helix End Mills for High Temp Alloys - Finishers - Square - Long Reach

**Characteristics:** 3x Length of Cut, 12x Reach Multiple

**Series:** 9518xx-C6, 9519xx-C6

Material	Hardness (HBn)	SFM		Chip Load Per Tooth (IPT)											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	.00029	.00037	.00044	.00059	.00088	.00118	.00155	.00186	.00248	< .05x Dia	.5x - 3x Dia
	300 - 350	350		.00007	.00015	.00022	.00029	.00037	.00044	.00059	.00088	.00118	.00155	.00186	.00248	< .05x Dia	.5x - 3x Dia
Tool Steels: D, H, M, T, S series	300 - 350	500	Finishing	.00007	.00015	.00022	.00029	.00037	.00044	.00059	.00088	.00118	.00155	.00186	.00248	< .05x Dia	.5x - 3x Dia
	350 - 400	250	Finishing	.00006	.00012	.00018	.00023	.00029	.00035	.00047	.00071	.00095	.00124	.00149	.00198	< .05x Dia	.5x - 3x Dia
	400 - 540	200	Finishing	.00005	.00010	.00014	.00019	.00024	.00029	.00038	.00057	.00077	.00101	.00121	.00161	< .05x Dia	.5x - 3x Dia
Titanium: All alloys	275 - 300	300	Finishing	.00003	.00006	.00010	.00013	.00016	.00019	.00026	.00039	.00052	.00069	.00082	.00110	< .05x Dia	.5x - 3x Dia
	300 - 350	200		.00003	.00006	.00010	.00013	.00016	.00019	.00026	.00039	.00052	.00069	.00082	.00110	< .05x Dia	.5x - 3x Dia
	350 - 400	150	Finishing	.00003	.00005	.00008	.00010	.00013	.00016	.00021	.00031	.00042	.00055	.00066	.00088	< .05x Dia	.5x - 3x Dia
	400 - 425	100		.00003	.00005	.00008	.00010	.00013	.00016	.00021	.00031	.00042	.00055	.00066	.00088	< .05x Dia	.5x - 3x Dia
Nickel Alloys: Inconel, Hastelloy, Waspalloy, Monel, Nimonic, Haynes, Discoloy, Incoloy	275 - 300	150	Finishing	.00001	.00002	.00003	.00003	.00004	.00005	.00007	.00010	.00014	.00018	.00022	.00029	< .03x Dia	.5x - 3x Dia
	300 - 350	100		.00001	.00002	.00003	.00003	.00004	.00005	.00007	.00010	.00014	.00018	.00022	.00029	< .03x Dia	.5x - 3x Dia
	350 - 400	80	Finishing	.00001	.00001	.00002	.00003	.00003	.00004	.00005	.00008	.00011	.00014	.00017	.00023	< .03x Dia	.5x - 3x Dia
	400 - 425	60		.00001	.00001	.00002	.00003	.00003	.00004	.00005	.00008	.00011	.00014	.00017	.00023	< .03x Dia	.5x - 3x Dia

**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 **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.