

Product Table: Diamond End Mills for Non-Ferrous Materials - CVD Diamond - Square

Characteristics: 5x Length of Cut, 4 Flutes

Series: 9366xx, 9367xx

CEM	Chip Load (IPT) By Cutter Diameter			Depth of Cut		Chip Load (IPT) By Cutter Diameter												Depth of Cut		
31 W		.015	.031	.047	Radial	Axial	.062	.078	.093	.125	.187	.250	.312	.375	.500	.625	.750	1.000	Radial	Axial
LUMINUM ALLOYS % - 5% Silicon (2xx, 3xx, 4xx, 5xx, 7xx, 8xx, A3xx, 4xx, 5xx, 7xx, 8xx, A3xx, 1500 - 3000	Roughing	.00014	.00029	.00044	.25 x Dia	1 x Dia	.00050	.00063	.00076	.00102	.00152	.00203	.00254	.00305	.00406	.00508	.00610	.00813	.50 x Dia	1 x Dia
1000 0000	Finishing	.00011	.00022	.00033	.05 x Dia	5 x Dia	.00038	.00048	.00057	.00076	.00114	.00152	.00190	.00229	.00305	.00381	.00457	.00610	.10 x Dia	5 x Dia
5%-8% Silicon (3xx, A3xx, C3xx, 4xx, A4xx, B4xx, 4xxx)	Roughing	.00013	.00026	.00040	.25 x Dia	1 x Dia	.00045	.00057	.00068	.00091	.00137	.00183	.00228	.00274	.00366	.00457	.00549	.00732	.50 x Dia	1 x Dia
	Finishing	.00009	.00020	.00030	.05 x Dia	5 x Dia	.00034	.00043	.00051	.00069	.00103	.00137	.00171	.00206	.00274	.00343	.00411	.00549	.10 x Dia	5 x Dia
8%-12% Silicon (3xx, A3xx, C3xx, 4xx, A4xx, B4xx, 4xxx)	Roughing	.00011	.00022	.00033	.25 x Dia	1 x Dia	.00038	.00048	.00057	.00076	.00114	.00152	.00190	.00229	.00305	.00381	.00457	.00610	.50 x Dia	1 x Dia
	Finishing	.00008	.00016	.00025	.05 x Dia	5 x Dia	.00028	.00036	.00043	.00057	.00085	.00114	.00143	.00171	.00229	.00286	.00343	.00457	.10 x Dia	5 x Dia
750 - 1500	Roughing	.00008	.00017	.00026	.25 x Dia	1 x Dia	.00030	.00038	.00045	.00061	.00091	.00122	.00152	.00183	.00244	.00305	.00366	.00488	.50 x Dia	1 x Dia
	Finishing	.00006	.00013	.00020	.05 x Dia	5 x Dia	.00023	.00029	.00034	.00046	.00068	.00091	.00114	.00137	.00183	.00229	.00274	.00366	.10 x Dia	5 x Dia
1500 - 3000	Roughing	.00014	.00029	.00044	.25 x Dia	1 x Dia	.00050	.00063	.00076	.00102	.00152	.00203	.00254	.00305	.00406	.00508	.00610	.00813	.50 x Dia	1 x Dia
1000 0000	Finishing	.00011	.00022	.00033	.05 x Dia	5 x Dia	.00038	.00048	.00057	.00076	.00114	.00152	.00190	.00229	.00305	.00381	.00457	.00610	.10 x Dia	5 x Dia
500 - 1000	Roughing	.00011	.00023	.00035	.25 x Dia	1 x Dia	.00040	.00051	.00060	.00081	.00122	.00163	.00203	.00244	.00325	.00406	.00488	.00650	.50 x Dia	1 x Dia
1100 - 2200	Finishing	.00008	.00017	.00026	.05 x Dia	5 x Dia	.00030	.00038	.00045	.00061	.00091	.00122	.00152	.00183	.00244	.00305	.00366	.00488	.10 x Dia	5 x Dia
400 750	Roughing	.00012	.00025	.00037	.25 x Dia	1 x Dia	.00043	.00054	.00064	.00086	.00129	.00173	.00216	.00259	.00345	.00432	.00518	.00691	.50 x Dia	1 x Dia
400 - 750	Finishing	.00009	.00018	.00028	.05 x Dia	5 x Dia	.00032	.00040	.00048	.00065	.00097	.00130	.00162	.00194	.00259	.00324	.00389	.00518	.10 x Dia	5 x Dia
RAPHITE	Roughing	.00016	.00033	.00051	.30 x Dia	1.3 x Dia	.00058	.00073	.00087	.00117	.00175	.00234	.00292	.00351	.00467	.00584	.00701	.00935	.65 x Dia	1.3 x Dia
600 - 1200	Finishing	.00012	.00025	.00038	.06 x Dia	5 x Dia	.00043	.00055	.00065	.00088	.00131	.00175	.00219	.00263	.00351	.00438	.00526	.00701	.13 x Dia	5 x Dia
	Roughing	.00015	.00030	.00046	.30 x Dia	1.3 x Dia	.00053	.00067	.00079	.00107	.00160	.00213	.00266	.00320	.00427	.00533	.00640	.00853	.65 x Dia	1.3 x Dia
100 - 750	Finishing	.00011	.00023	.00035	.06 x Dia	5 x Dia	.00040	.00050	.00060	.00080	.00120	.00160	.00200	.00240	.00320	.00400	.00480	.00640	.13 x Dia	5 x Dia
	1500 - 3000 1100 - 2200 750 - 1500 1500 - 3000	SFM Roughing 1500 - 3000 Roughing 1500 - 3000 Roughing 1100 - 2200 Roughing Finishing Roughing 750 - 1500 Roughing Finishing Roughing Finishing Roughing 500 - 1000 Roughing Finishing Roughing Finishing Roughing 600 - 1200 Roughing Finishing Roughing Finishing Roughing Finishing Roughing Finishing Roughing Finishing Roughing	1500 - 3000 Roughing .00014	1500 - 3000 Roughing .00014 .00029 1500 - 3000 Finishing .00011 .00022 1500 - 3000 Roughing .00013 .00026 Finishing .00019 .00020 1100 - 2200 Roughing .00011 .00022 Finishing .00008 .00016 750 - 1500 Roughing .00008 .00017 Finishing .00006 .00013 1500 - 3000 Roughing .00014 .00029 Finishing .00011 .00022 1100 - 2200 Roughing .00011 .00023 1100 - 2200 Finishing .00018 .00017 1100 - 2200 Finishing .00018 .00017 1100 - 1000 Roughing .00012 .00025 1100 - 750 Roughing .00016 .00033 1100 - 750 Roughing .00015 .00030 1100 - 750 Roughing .00015 .00030	1500 - 3000 Roughing .00014 .00029 .00044 .00029 .00044 .00029 .00044 .00029 .00044 .00029 .00044 .00029 .00040 .00033 .00026 .00040 .00030 .00020 .00030 .00020 .00030 .00020 .00030 .00020 .00030 .00030 .00011 .00022 .00033 .00026 .00033 .00026 .00033 .00026 .00033 .00026 .00033 .00026 .00033 .00026 .00033 .00020 .00033 .00020 .00033 .00020 .00033 .00020 .00033 .00020 .00033 .00020 .00033 .00033 .00035 .00035 .00035 .00035 .00035 .00036 .00	No. No.	SFM Section Section	SFM Roughing .00014 .00029 .00044 .25 x Dia 1 x Dia .00050	SFM O.015 O.031 O.047 Radial Axial O.062 O.078	SFM Roughing .0014 .0029 .00044 .25 x Dia 1 x Dia .00050 .00063 .00076	Note	1500 - 3000 1500 - 3011 1.002	1500 - 3000 1500 - 3001 1500 - 3001 1500 - 3000 - 3000 1500 -	1500 - 3000 1500 - 3015 1.031 1.047 1.048 1.048 1.062 1.078 1.093 1.125 1.187 1.250 1.312 1500 - 3000 1.0014 1.00024 1.00024 1.00024 1.25 × Dia 1.8 × Dia 1.00038 1.00068 1.00076 1.00162 1.00162 1.00162 1.00162 1.00162 1500 - 3000 1.0014 1.00024 1.00024 1.00038 1.05 × Dia 1.8 × Dia 1.00045 1.00057 1.00068 1.00076 1.00144 1.00152 1.00190 1500 - 3000 1.00009 1.00009 1.00020 1.00030 1.05 × Dia 1.8 × Dia 1.00045 1.00058 1.00068 1.00144 1.00152 1.00190 1100 - 2200 1.00030 1.00009 1.00020 1.00030 1.05 × Dia 1.8 × Dia 1.00038 1.00048 1.00057 1.00069 1.0014 1.00152 1.00190 1100 - 2200 1.00030 1.00009 1.00022 1.00030 1.05 × Dia 1.8 × Dia 1.00038 1.00048 1.00057 1.00069 1.00144 1.00143 1100 - 2200 1.00030 1.00008 1.00016 1.00025 1.05 × Dia 1.8 × Dia 1.00038 1.00048 1.00057 1.00069 1.00144 1.00143 1100 - 3000 1.00008 1.00016 1.00025 1.05 × Dia 1.8 × Dia 1.00038 1.00049 1.00049 1.00049 1.00144 1.00143 1100 - 3000 1.0004 1.00008 1.00040 1.00030 1.00049	SFM Nouphing .0011 .0022 .0033 .05 × Dia .0034 .25 × Dia .0036 .0006 .0006 .0006 .0006 .0006 .0010 .0013 .0022 .0036 .0026 .00	SFM No. 15	No. No.	Roughing Month M	Page Page	No color No color

Product Notes:

Due to Edge Rounding and Surface Texture inherent in CVD diamond, plastic materials and non-ferrous alloys should be closely supervised for galling and/or flute packing.

General Notes:

All posted speed and feed parameters are suggested starting values that may be increased given optimal setup conditions. In cases where starting parameters are not given, traditional carbide speeds & feeds may be substituted (diamond is not suited for ferrous materials or materials with low machinability).

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.