

High-Performance Cutting Tools

PRODUCT CATALOG 2021


ENDURANCE
— U.S.A. —



THE ALMAR GUARANTEE

Our team of machinists has a commitment to quality in order to deliver the precise cutting tools that our customers need. All products that Almar Tools manufactures are meticulously inspected during the manufacturing process for quality assurance.

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**WE ARE DEPENDABLE.
WE ARE AMERICAN.
WE ARE **ALMAR TOOLS**.**



ALMAR TOOLS

TOP TIER PERFORMANCE AT WHOLESALE PRICING

- Specifically designed for high temp alloys.
- Engineered flutes for high performance milling.
- Variable pitch reduces the harmonics which increases feed rates and tool lifespan.
- H6 Tolerance on all shanks in order to meet requirements for high precision tool holders.
- If you don't find the tool you are looking for, contact us. We can get you the tool you need.



ICON KEY



2-Flute Cutter



3-Flute Cutter



4-Flute Cutter



5-Flute Cutter



6-Flute Cutter



Single End Chamfer



Double End Chamfer



Made in the USA



Heat Resistant



Medical Applications



Military Applications



Aerospace Applications

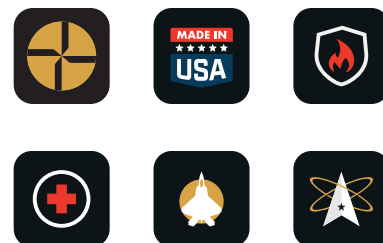
TOOL GUIDE

TOOL GEOMETRY	DESCRIPTION
4-Flute Variable Helix	Variable pitch geometry engineered and tested for decreased chatter and harmonics which results in a higher quality finish and extended tool life. Excellent for use in a variety of roughing and finishing applications.
5-Flute Variable Helix	Utilizing the same variable helix principals as the 4-flute version to reduce chatter and harmonics, this 5-flute cutter for machining in applications such as stainless steel, mild or hardened steels, and various exotic metals. Good for light to heavy machining, and leaves a great finish perfect for slotting.
6-Flute Variable Helix	Taking it one step further, this 6-flute end mill will put the crucial finishing touches on your parts. Designed for light profile machining and finishing operations, this tool will keep your parts looking sharp!

COATING GUIDE

	COATING TYPE	
	AlTiN	VICIOUS
Hardness HV0.05	3000	3500
Thickness Range	2.2 - 3µm	2.0 - 2.7µm
Max. Operating Temperature	1700F	2000F
Color	Violet	Red-brown
Properties	High toughness and low friction	Very high heat resistance and "high abrasion resistance"
Typical Applications	High Speed Machining up to 54HRC. Steel, Stainless Steel, Titanium, Exotic Materials	Milling of hard Steels up to 64HRC. Inconel, Stainless Steels, Hardened Steels, Alloyed Steels

4-FLUTE VARIABLE HELIX



DIAMETER	SHANK	L.O.C.	O.A.L.	RADIUS	AITIN	VICIOUS	TOOL DESCRIPTION
1/8	1/8	1/4	1 1/2	SQ.	10001	11001	4VX01250250A000
				0.02	10002	11002	4VX01250250A020
1/8	1/8	1/2	1 1/2	SQ.	10003	11003	4VX01250500A000
				0.02	10004	11004	4VX01250500A020
1/4	1/4	3/8	2	SQ.	10005	11005	4VX02500375B000
				0.02	10006	11006	4VX02500375B020
				0.03	10007	11007	4VX02500375B030
1/4	1/4	1/2	2 1/2	SQ.	10008	11008	4VX02500500C000
				0.02	10009	11009	4VX02500500C020
				0.03	10010	11010	4VX02500500C030
1/4	1/4	3/4	2 1/2	SQ.	10011	11011	4VX02500750C000
				0.02	10012	11012	4VX02500750C020
				0.03	10013	11013	4VX02500750C030
5/16	5/16	1/2	2 1/2	SQ.	10014	11014	4VX03120500C000
				0.02	10015	11015	4VX03120500C020
				0.03	10016	11016	4VX03120500C030
5/16	5/16	13/16	2 1/2	SQ.	10017	11017	4VX03120812C000
				0.02	10018	11018	4VX03120812C020
				0.03	10019	11019	4VX03120812C030
3/8	3/8	5/8	2 1/2	SQ.	10020	11020	4VX03750625C000
				0.02	10021	11021	4VX03750625C020
				0.03	10022	11022	4VX03750625C030
				0.09	10023	11023	4VX03750625C090

4-FLUTE VARIABLE HELIX

DIAMETER	SHANK	L.O.C.	O.A.L.	RADIUS	AlTiN	VICIOUS	TOOL DESCRIPTION
3/8	3/8	1	2 1/2	SQ.	10024	11024	4VX03751000C000
				0.02	10025	11025	4VX03751000C020
				0.03	10026	11026	4VX03751000C030
				0.09	10027	11027	4VX03751000C090
3/8	3/8	1 1/4	3	SQ.	10028	11028	4VX03751250D000
				0.02	10029	11029	4VX03751250D020
				0.03	10030	11030	4VX03751250D030
				0.09	10031	11031	4VX03751250D090
3/8	3/8	2	4	SQ.	10032	11032	4VX03752000F000
				0.02	10033	11033	4VX03752000F020
				0.03	10034	11034	4VX03752000F030
				0.09	10035	11035	4VX03752000F090
1/2	1/2	5/8	2 1/2	SQ.	10036	11036	4VX05000625C000
				0.02	10037	11037	4VX05000625C020
				0.03	10038	11038	4VX05000625C030
				0.09	10039	11039	4VX05000625C090
1/2	1/2	1	3	SQ.	10040	11040	4VX05001000D000
				0.02	10041	11041	4VX05001000D020
				0.03	10042	11042	4VX05001000D030
				0.09	10043	11043	4VX05001000D090
1/2	1/2	1 1/4	3	SQ.	10044	11044	4VX05001250D000
				0.02	10045	11045	4VX05001250D020
				0.03	10046	11046	4VX05001250D030
				0.09	10047	11047	4VX05001250D090
1/2	1/2	2	4	SQ.	10048	11048	4VX05002000F000
				0.02	10049	11049	4VX05002000F020
				0.03	10050	11050	4VX05002000F030
				0.09	10051	11051	4VX05002000F090

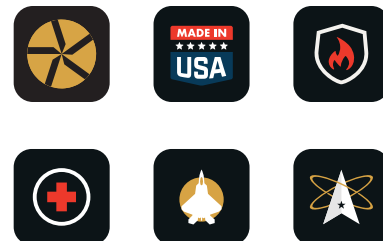
4-FLUTE VARIABLE HELIX

DIAMETER	SHANK	L.O.C.	O.A.L.	RADIUS	AlTiN	VICIOUS	TOOL DESCRIPTION
5/8	5/8	3/4	3	SQ.	10052	11052	4VX06250750D000
				0.02	10053	11053	4VX06250750D020
				0.03	10054	11054	4VX06250750D030
				0.09	10055	11055	4VX06250750D090
5/8	5/8	1 1/4	3 1/2	SQ.	10056	11056	4VX06251250E000
				0.02	10057	11057	4VX06251250E020
				0.03	10058	11058	4VX06251250E030
				0.09	10059	11059	4VX06251250E090
5/8	5/8	1 5/8	3 1/2	SQ.	10060	11060	4VX06251625E000
				0.02	10061	11061	4VX06251625E020
				0.03	10062	11062	4VX06251625E030
				0.09	10063	11063	4VX06251625E090
5/8	5/8	3	6	SQ.	10064	11064	4VX06253000J000
				0.02	10065	11065	4VX06253000J020
				0.03	10066	11066	4VX06253000J030
				0.09	10067	11067	4VX06253000J090
3/4	3/4	1	3	SQ.	10068	11068	4VX07501000D000
				0.02	10069	11069	4VX07501000D020
				0.03	10070	11070	4VX07501000D030
				0.09	10071	11071	4VX07501000D090
				0.12	10072	11072	4VX07501000D120
				0.19	10073	11073	4VX07501000D190
3/4	3/4	1 1/2	4	SQ.	10074	11074	4VX07501500F000
				0.02	10075	11075	4VX07501500F020
				0.03	10076	11076	4VX07501500F030
				0.09	10077	11077	4VX07501500F090
				0.12	10078	11078	4VX07501500F120
				0.19	10079	11079	4VX07501500F190

4-FLUTE VARIABLE HELIX

DIAMETER	SHANK	L.O.C.	O.A.L.	RADIUS	AlTiN	VICIOUS	TOOL DESCRIPTION
3/4	3/4	2	5	SQ.	10080	11080	4VX07502000H000
				0.02	10081	11081	4VX07502000H020
				0.03	10082	11082	4VX07502000H030
				0.09	10083	11083	4VX07502000H090
				0.12	10084	11084	4VX07502000H120
				0.19	10085	11085	4VX07502000H190
3/4	3/4	3	6	SQ.	10086	11086	4VX07503000J000
				0.02	10087	11087	4VX07503000J020
				0.03	10088	11088	4VX07503000J030
				0.09	10089	11089	4VX07503000J090
				0.12	10090	11090	4VX07503000J120
				0.19	10091	11091	4VX07503000J190
1	1	1 1/2	4	SQ.	10092	11092	4VX10001500F000
				0.02	10093	11093	4VX10001500F020
				0.09	10094	11094	4VX10001500F090
				0.12	10095	11095	4VX10001500F120
				0.19	10096	11096	4VX10001500F190
1	1	3	6	SQ.	10097	11097	4VX10003000J000
				0.02	10098	11098	4VX10003000J020
				0.09	10099	11099	4VX10003000J090
				0.12	10100	11100	4VX10003000J120
				0.19	10101	11101	4VX10003000J190

5-FLUTE VARIABLE HELIX



DIAMETER	SHANK	L.O.C.	O.A.L.	RADIUS	AITIN	VICIOUS	TOOL DESCRIPTION
1/4	1/4	3/8	2	SQ.	20001	21001	5VX02500375B000
				0.02	20002	21002	5VX02500375B020
				0.03	20003	21003	5VX02500375B030
1/4	1/4	1/2	2 1/2	SQ.	20004	21004	5VX02500500C000
				0.02	20005	21005	5VX02500500C020
				0.03	20006	21006	5VX02500500C030
1/4	1/4	3/4	2 1/2	SQ.	20007	21007	5VX02500750C000
				0.02	20008	21008	5VX02500750C020
				0.03	20009	21009	5VX02500750C030
5/16	5/16	1/2	2 1/2	SQ.	20010	21010	5VX03120500C000
				0.02	20011	21011	5VX03120500C020
				0.03	20012	21012	5VX03120500C030
5/16	5/16	13/16	2 1/2	SQ.	20013	21013	5VX03120812C000
				0.02	20014	21014	5VX03120812C020
				0.03	20015	21015	5VX03120812C030
3/8	3/8	5/8	2 1/2	SQ.	20016	21016	5VX03750625C000
				0.02	20017	21017	5VX03750625C020
				0.03	20018	21018	5VX03750625C030
				0.09	20019	21019	5VX03750625C090
3/8	3/8	1	2 1/2	SQ.	20020	21020	5VX03751000C000
				0.02	20021	21021	5VX03751000C020
				0.03	20022	21022	5VX03751000C030
				0.09	20023	21023	5VX03751000C090

5-FLUTE VARIABLE HELIX

DIAMETER	SHANK	L.O.C.	O.A.L.	RADIUS	AlTiN	VICIOUS	TOOL DESCRIPTION
3/8	3/8	1 1/4	3	SQ.	20024	21024	5VX03751250D000
				0.02	20025	21025	5VX03751250D020
				0.03	20026	21026	5VX03751250D030
				0.09	20027	21027	5VX03751250D090
3/8	3/8	2	4	SQ.	20028	21028	5VX03752000F000
				0.02	20029	21029	5VX03752000F020
				0.03	20030	21030	5VX03752000F030
				0.09	20031	21031	5VX03752000F090
1/2	1/2	5/8	2 1/2	SQ.	20032	21032	5VX05000625C000
				0.02	20033	21033	5VX05000625C020
				0.03	20034	21034	5VX05000625C030
				0.09	20035	21035	5VX05000625C090
1/2	1/2	1	3	SQ.	20036	21036	5VX05001000D000
				0.02	20037	21037	5VX05001000D020
				0.03	20038	21038	5VX05001000D030
				0.09	20039	21039	5VX05001000D090
1/2	1/2	1 1/4	3	SQ.	20040	21040	5VX05001250D000
				0.02	20041	21041	5VX05001250D020
				0.03	20042	21042	5VX05001250D030
				0.09	20043	21043	5VX05001250D090
1/2	1/2	2	4	SQ.	20044	21044	5VX05002000F000
				0.02	20045	21045	5VX05002000F020
				0.03	20046	21046	5VX05002000F030
				0.09	20047	21047	5VX05002000F090

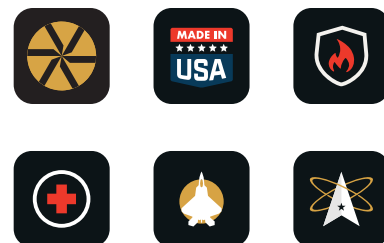
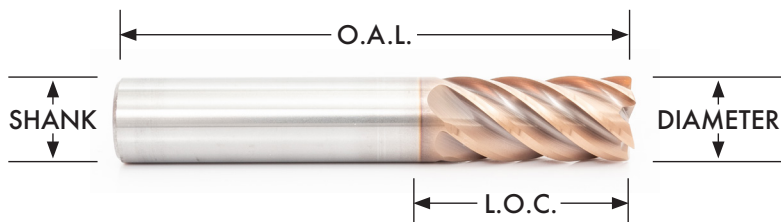
5-FLUTE VARIABLE HELIX

DIAMETER	SHANK	L.O.C.	O.A.L.	RADIUS	AITiN	VICIOUS	TOOL DESCRIPTION
5/8	5/8	3/4	3	SQ.	20048	21048	5VX06250750D000
				0.02	20049	21049	5VX06250750D020
				0.03	20050	21050	5VX06250750D030
				0.09	20051	21051	5VX06250750D090
5/8	5/8	1 1/4	3 1/2	SQ.	20052	21052	5VX06251250E000
				0.02	20053	21053	5VX06251250E020
				0.03	20054	21054	5VX06251250E030
				0.09	20055	21055	5VX06251250E090
5/8	5/8	1 5/8	3 1/2	SQ.	20056	21056	5VX06251625E000
				0.02	20057	21057	5VX06251625E020
				0.03	20058	21058	5VX06251625E030
				0.09	20059	21059	5VX06251625E090
5/8	5/8	3	6	SQ.	20060	21060	5VX06253000J000
				0.02	20061	21061	5VX06253000J020
				0.03	20062	21062	5VX06253000J030
				0.09	20063	21063	5VX06253000J090
3/4	3/4	1	3	SQ.	20064	21064	5VX07501000D000
				0.02	20065	21065	5VX07501000D020
				0.03	20066	21066	5VX07501000D030
				0.09	20067	21067	5VX07501000D090
				0.12	20068	21068	5VX07501000D120
				0.19	20069	21069	5VX07501000D190
3/4	3/4	1 1/2	4	SQ.	20070	21070	5VX07501500F000
				0.02	20071	21071	5VX07501500F020
				0.03	20072	21072	5VX07501500F030
				0.09	20073	21073	5VX07501500F090
				0.12	20074	21074	5VX07501500F120
				0.19	20075	21075	5VX07501500F190

5-FLUTE VARIABLE HELIX

DIAMETER	SHANK	L.O.C.	O.A.L.	RADIUS	AlTiN	VICIOUS	TOOL DESCRIPTION
3/4	3/4	2	5	SQ.	20076	21076	5VX07502000H000
				0.02	20077	21077	5VX07502000H020
				0.03	20078	21078	5VX07502000H030
				0.09	20079	21079	5VX07502000H090
				0.12	20080	21080	5VX07502000H120
				0.19	20081	21081	5VX07502000H190
3/4	3/4	3	6	SQ.	20082	21082	5VX07503000J000
				0.02	20083	21083	5VX07503000J020
				0.03	20084	21084	5VX07503000J030
				0.09	20085	21085	5VX07503000J090
				0.12	20086	21086	5VX07503000J120
				0.19	20087	21087	5VX07503000J190
1	1	1 1/2	4	SQ.	20088	21088	5VX10001500F000
				0.02	20089	21089	5VX10001500F020
				0.09	20090	21090	5VX10001500F090
				0.12	20091	21091	5VX10001500F120
				0.19	20092	21092	5VX10001500F190
1	1	3	6	SQ.	20093	21093	5VX10003000J000
				0.02	20094	21094	5VX10003000J020
				0.09	20095	21095	5VX10003000J090
				0.12	20096	21096	5VX10003000J120
				0.19	20097	21097	5VX10003000J190

6-FLUTE VARIABLE HELIX



DIAMETER	SHANK	L.O.C.	O.A.L.	RADIUS	AITIN	VICIOUS	TOOL DESCRIPTION
3/8	3/8	5/8	2 1/2	SQ.	30001	31001	6VX03750625C000
				0.02	30002	31002	6VX03750625C020
				0.03	30003	31003	6VX03750625C030
				0.09	30004	31004	6VX03750625C090
3/8	3/8	1	2 1/2	SQ.	30005	31005	6VX03751000C000
				0.02	30006	31006	6VX03751000C020
				0.03	30007	31007	6VX03751000C030
				0.09	30008	31008	6VX03751000C090
3/8	3/8	1 1/4	3	SQ.	30009	31009	6VX03751250D000
				0.02	30010	31010	6VX03751250D020
				0.03	30011	31011	6VX03751250D030
				0.09	30012	31012	6VX03751250D090
3/8	3/8	2	4	SQ.	30013	31013	6VX03752000F000
				0.02	30014	31014	6VX03752000F020
				0.03	30015	31015	6VX03752000F030
				0.09	30016	31016	6VX03752000F090
1/2	1/2	5/8	2 1/2	SQ.	30017	31017	6VX05000625C000
				0.02	30018	31018	6VX05000625C020
				0.03	30019	31019	6VX05000625C030
				0.09	30020	31020	6VX05000625C090
1/2	1/2	1	3	SQ.	30021	31021	6VX05001000D000
				0.02	30022	31022	6VX05001000D020
				0.03	30023	31023	6VX05001000D030
				0.09	30024	31024	6VX05001000D090

6-FLUTE VARIABLE HELIX

DIAMETER	SHANK	L.O.C.	O.A.L.	RADIUS	AlTiN	VICIOUS	TOOL DESCRIPTION
1/2	1/2	1 1/4	3	SQ.	30025	31025	6VX05001250D000
				0.02	30026	31026	6VX05001250D020
				0.03	30027	31027	6VX05001250D030
				0.09	30028	31028	6VX05001250D090
1/2	1/2	2	4	SQ.	30029	31029	6VX05002000F000
				0.02	30030	31030	6VX05002000F020
				0.03	30031	31031	6VX05002000F030
				0.09	30032	31032	6VX05002000F090
5/8	5/8	3/4	3	SQ.	30033	31033	6VX06250750D000
				0.02	30034	31034	6VX06250750D020
				0.03	30035	31035	6VX06250750D030
				0.09	30036	31036	6VX06250750D090
5/8	5/8	1 1/4	3 1/2	SQ.	30037	31037	6VX06251250E000
				0.02	30038	31038	6VX06251250E020
				0.03	30039	31039	6VX06251250E030
				0.09	30040	31040	6VX06251250E090
5/8	5/8	1 5/8	3 1/2	SQ.	30041	31041	6VX06251625E000
				0.02	30042	31042	6VX06251625E020
				0.03	30043	31043	6VX06251625E030
				0.09	30044	31044	6VX06251625E090
5/8	5/8	3	6	SQ.	30045	31045	6VX06253000J000
				0.02	30046	31046	6VX06253000J020
				0.03	30047	31047	6VX06253000J030
				0.09	30048	31048	6VX06253000J090
3/4	3/4	1	3	SQ.	30049	31049	6VX07501000D000
				0.02	30050	31050	6VX07501000D020
				0.03	30051	31051	6VX07501000D030
				0.09	30052	31052	6VX07501000D090
				0.12	30053	31053	6VX07501000D120
				0.19	30054	31054	6VX07501000D190

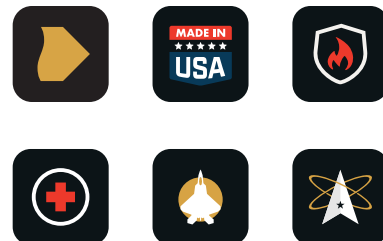
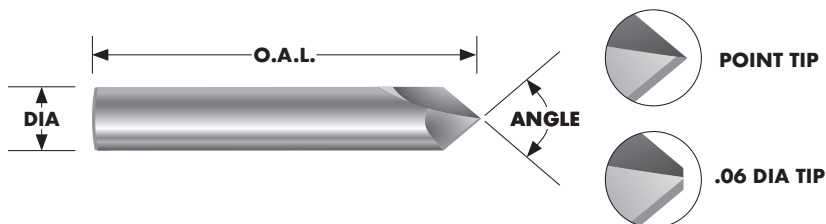
6-FLUTE VARIABLE HELIX

DIAMETER	SHANK	L.O.C.	O.A.L.	RADIUS	AlTiN	VICIOUS	TOOL DESCRIPTION
3/4	3/4	1 1/2	4	SQ.	30055	31055	6VX07501500F000
				0.02	30056	31056	6VX07501500F020
				0.03	30057	31057	6VX07501500F030
				0.09	30058	31058	6VX07501500F090
				0.12	30059	31059	6VX07501500F120
				0.19	30060	31060	6VX07501500F190
3/4	3/4	2	5	SQ.	30061	31061	6VX07502000H000
				0.02	30062	31062	6VX07502000H020
				0.03	30063	31063	6VX07502000H030
				0.09	30064	31064	6VX07502000H090
				0.12	30065	31065	6VX07502000H120
				0.19	30066	31066	6VX07502000H190
3/4	3/4	3	6	SQ.	30067	31067	6VX07503000J000
				0.02	30068	31068	6VX07503000J020
				0.03	30069	31069	6VX07503000J030
				0.09	30070	31070	6VX07503000J090
				0.12	30071	31071	6VX07503000J120
				0.19	30072	31072	6VX07503000J190
1	1	1 1/2	4	SQ.	30073	31073	6VX10001500F000
				0.02	30074	31074	6VX10001500F020
				0.09	30075	31075	6VX10001500F090
				0.12	30076	31076	6VX10001500F120
				0.19	30077	31077	6VX10001500F190
1	1	3	6	SQ.	30078	31078	6VX10003000J000
				0.02	30079	31079	6VX10003000J020
				0.09	30080	31080	6VX10003000J090
				0.12	30081	31081	6VX10003000J120
				0.19	30082	31082	6VX10003000J190

SECTION 02

CHAMFER CUTTERS

SINGLE END CHAMFER



2-FLUTE

INCL. ANGLE	FLUTES	TIP DIA.	DIA	O.A.L.	AlTiN	UNCOATED	TOOL DESCRIPTION
60°	2	point	1/4	2 1/2	40001	41001	2SC0250C060P
			3/8	2 1/2	40002	41002	2SC0375C060P
			1/2	3	40003	41003	2SC0500D060P
82°	2	point	1/8	1 1/2	40004	41004	2SC0125A082P
			1/4	2 1/2	40005	41005	2SC0250C082P
			3/8	2 1/2	40006	41006	2SC0375C082P
			1/2	3	40007	41007	2SC0500D082P
90°	2	point	1/8	1 1/2	40008	41008	2SC0125A090P
			3/16	2	40009	41009	2SC0312B090P
			1/4	2 1/2	40010	41010	2SC0250C090P
			3/8	2 1/2	40011	41011	2SC0375C090P
			1/2	3	40012	41012	2SC0500D090P
			3/4	4	40013	41013	2SC0750F090P
120°	2	point	3/8	2 1/2	40014	41014	2SC0375C120P
			1/2	3	40015	41015	2SC0500D120P

3-FLUTE

INCL. ANGLE	FLUTES	TIP DIA.	DIA	O.A.L.	AlTiN	UNCOATED	TOOL DESCRIPTION
90°	3	.06	1/4	2 1/2	40016	41016	3SF0250C090F
			3/8	2 1/2	40017	41017	3SF0375C090F
			1/2	3	40018	41018	3SF0500D090F

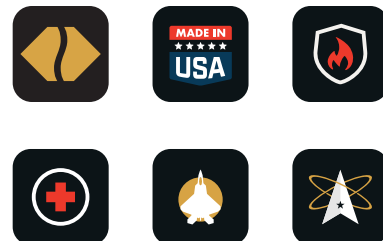
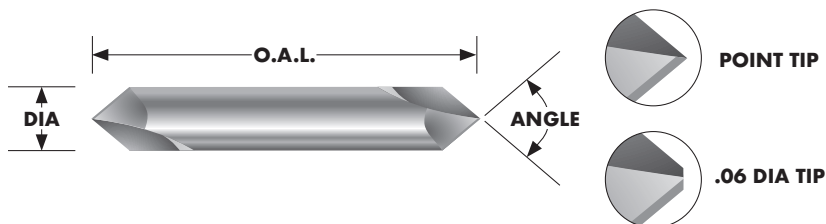
SINGLE END CHAMFER



4-FLUTE

INCL. ANGLE	FLUTES	TIP DIA.	DIA	O.A.L.	AITIN	UNCOATED	TOOL DESCRIPTION
60°	4	.06	¼	2 ½	40019	41019	4SF0250C060F
			⅜	2 ½	40020	41020	4SF0375C060F
			½	3	40021	41021	4SF0500D060F
82°	4	.06	¼	2 ½	40022	41022	4SF0250C082F
			⅜	2 ½	40023	41023	4SF0375C082F
			½	3	40024	41024	4SF0500D082F
90°	4	.06	¼	2 ½	40025	41025	4SF0250C090F
			⅜	2 ½	40026	41026	4SF0375C090F
			½	3	40027	41027	4SF0500D090F
			¾	4	40028	41028	4SF0750F090F
90°	4	point	¼	2 ½	40029	41029	4SF0250C090P
			⅜	2 ½	40030	41030	4SF0375C090P
			½	3	40031	41031	4SF0500D090P
			¾	4	40032	41032	4SF0750F090P
120°	4	.06	⅜	2 ½	40033	41033	4SF0375C120F
			½	3	40034	41034	4SF0500D120F

DOUBLE END CHAMFER



2-FLUTE

INCL. ANGLE	FLUTES	TIP DIA.	DIA	O.A.L.	ALTiN	UNCOATED	TOOL DESCRIPTION
90°	2	point	1/8	1 1/2	40043	41043	2DC0125A090P
			3/16	2	40044	41044	2DC0312B090P
			1/4	2 1/2	40045	41045	2DC0250C090P
			3/8	2 1/2	40046	41046	2DC0375C090P
			1/2	3	40047	41047	2DC0500D090P
			3/4	4	40048	41048	2DC0750F090P

4-FLUTE

INCL. ANGLE	FLUTES	TIP DIA.	DIA	O.A.L.	ALTiN	UNCOATED	TOOL DESCRIPTION
90°	4	.06	1/4	2 1/2	40035	41035	4DF0250C090F
			3/8	2 1/2	40036	41036	4DF0375C090F
			1/2	3	40037	41037	4DF0500D090F
			3/4	4	40038	41038	4DF0750F090F
90°	4	point	1/4	2 1/2	40039	41039	4DF0250C090P
			3/8	2 1/2	40040	41040	4DF0375C090P
			1/2	3	40041	41041	4DF0500D090P
			3/4	4	40042	41042	4DF0750F090P

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