



Core Cutter, LLC • 362 Maine Avenue • Farmingdale, ME 04344
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Check Out What's New:

- **Added Diameter & LOC Options:
AL3, VST4 & VST5 Series**
- **NEW! AL2 Series (2 Flute)**
- **NEW! FEM5 Series (5 Flute Finisher)**
- **NEW! Square End VMF Offering**



About Us

Core Cutter, LLC is a family owned and operated high performance carbide cutting tool manufacturer located in Farmingdale, Maine. We manufacture a variety of standard, modified and custom-made solid carbide tooling with fast turnaround from print to ship. We are honored to have the opportunity to present you with the fundamentals of our company:

Our Promise: We are committed to outstanding customer service and superior product quality. We promise to continually meet or exceed your expectations in all aspects of the cutting tool industry.

Our Team: The Core Cutter Family consists of exceptionally skilled engineers, machine operators, quality inspectors, technical support and customer service professionals. We are dedicated to providing you with 100% customer satisfaction from start to finish.

Our Focus: In order to continually meet our customers' needs, we remain focused on continual improvement in all aspects of carbide tool manufacturing. We are fueled by a passion for innovation, motivating us to design better tools, better processes and creative solutions to our customers' machining needs.

We look forward to being of service to you and your team.



James R. Graham, President/Owner



Our Capabilities



Core Cutter is proud to offer a wide variety of carbide cutting tool services including, but not limited to: Design, Manufacture, Inspection, Edge Preparation, Tool Coatings and more. We are confident our tooling will exceed your expectations and improve productivity by reducing cycle time and increasing tool life. We design all of our products to perform at the highest level of machining in all applications. We specialize in quick deliveries on all standard, reconditioned and custom-made tooling.



Machinery:

CNC 5-Axis Tool & Cutter Grinders:

Walter Visions w/ Loader

Walter Powers w/ Loader

Schneeberger Gemini

Edge Preparation:

BelAir Drag Finishing Machines





Laser Marking:

Cobalt Dominator

Manual / NC Grinders:

Super Tec Cylindrical

Myford Cylindrical

#2 Cincinnati Grinders

Harig Surface Grinders

Inspection Equipment:

Walter Helicheck Pro

Flexbar Video Inspection

Jones & Lamson PC-14

Optical Comparators



Coatings:

We use Oerlikon Balzers® for all tool coatings. With pick up and drop off services every Monday, Wednesday and Friday, the turnaround for coated tools is convenient and fast. Our primary coating offerings are BALNIT ALCRONA PRO™ (Alcrona Pro), BALNIT LATUMA™ (Latuma, traditionally known as AlTiN) for ferrous materials, and BALNIT HARD CARBON™ (Hard Carbon) for non-ferrous materials. We are excited to offer the new C-MAX Coating, designed for the toughest milling applications. C-MAX now comes standard on our VMF Series End Mills.

Custom-Made Tooling

At Core Cutter, we understand that timing is everything. In this fast-paced industry, we pull ahead of the competition with our **quick turnaround** of custom-made tooling. From end mills, drills and form tools, to dovetails, countersinks and reamers, we specialize in top quality, high performance carbide tooling of all shapes and sizes.

Need assistance with a specific application? Our engineers are experienced in recommending, designing and building a variety of custom tailored tools to meet your machining needs. We are qualified to help you step by step through the troubleshooting, designing and manufacturing processes.

Need it fast? We are committed to providing the fastest possible deliveries, leading the industry in on-time order fulfillment. Custom-made tooling is quoted same day, whenever possible, eliminating unnecessary or lengthy manufacturing delays.

Guaranteed top quality. We are driven by our passion for excellence in all areas of tool manufacturing. We strictly use high quality carbide material, superior industry coatings and proven finishing processes, ensuring you always receive an exceptional, high performance product.



Tool Reconditioning & Modifications

We understand the importance of tool **value and cost savings**. One of the best ways to reduce machining costs is to recondition your used carbide tooling. However, it is essential to ensure that all of your reconditioned tooling maintains the same high quality performance and repeatability that you need. At Core Cutter, we provide factory reconditioning that will hold up to your most stringent demands.

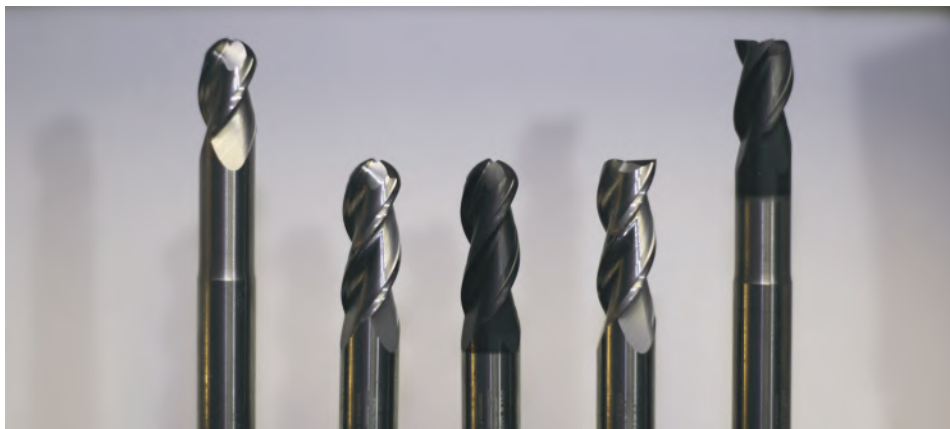
Looking for quality reconditioning?

Tool performance is our number one priority. We condition your tooling to the original manufacturer specifications and extend tool life with our edge prep process and superior industry coatings.

Need a modified tool?

Whether you are adding a corner radius, Weldon flat, or a custom alteration, let Core Cutter assist you in providing precision modified tooling that will stand up in the toughest applications.

Need it fast? We know that in order for you to be successful, you need to receive your reconditioned tooling as quickly as possible. We have created an easy-to-use standard tool reconditioning order form, in order to expedite the requisition process. In addition, we have dedicated on-site machinery, reserved for reconditioned and modified tooling as a priority. We are committed to providing the fastest deliveries possible to ensure that you always have what you need.



Non-Ferrous AL2 Series



SERIES: AL2

2 Flute, Aluminum & Non-Ferrous, Roughing & Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	LENGTH BELOW SHANK (LBS)	DESCRIPTION	STOCK CODE	UNCOATED EDP#	STOCK CODE	HARD CARBON EDP#
1/8"	1/8	1/4	1 1/2	2	SQ		AL2-S-0125-SQ	A	210000	C	210001
	1/8	1/4	1 1/2	2	0.015		AL2-S-0125-R015	B	210010	C	210011
	1/8	1/4	1 1/2	2	0.063		AL2-S-0125-R063 (BALL)	A	210040	C	210041
	1/8	3/8	2	2	SQ		AL2-SR-0125-SQ	A	210100	C	210101
	1/8	3/8	2	2	0.015		AL2-SR-0125-R015	B	210110	C	210111
	1/8	3/8	2	2	0.063		AL2-SR-0125-R063 (BALL)	B	210140	C	210141
	1/8	1/2	2 1/2	2	SQ		AL2-R-0125-SQ	A	210200	A	210201
	1/8	1/2	2 1/2	2	0.015		AL2-R-0125-R015	B	210210	C	210211
	1/8	1/2	2 1/2	2	0.063		AL2-R-0125-R063 (BALL)	A	210240	A	210241
3/16"	3/16	5/16	2	2	SQ		AL2-S-0187-SQ	B	200000	C	200001
	3/16	5/16	2	2	0.015		AL2-S-0187-R015	B	200010	C	200011
	3/16	5/16	2	2	0.094		AL2-S-0187-R094 (BALL)	B	200040	C	200041
	3/16	7/16	2	2	SQ		AL2-SR-0187-SQ	B	200100	C	200101
	3/16	7/16	2	2	0.015		AL2-SR-0187-R015	B	200110	C	200111
	3/16	7/16	2	2	0.094		AL2-SR-0187-R094 (BALL)	B	200140	C	200141
	3/16	9/16	2 1/2	2	SQ		AL2-R-0187-SQ	A	200200	A	200201
	3/16	9/16	2 1/2	2	0.015		AL2-R-0187-R015	B	200210	C	200211
	3/16	9/16	2 1/2	2	0.094		AL2-R-0187-R094 (BALL)	A	200240	A	200241
1/4"	1/4	3/8	2	2	SQ		AL2-S-0250-SQ	B	201000	C	201001
	1/4	3/8	2	2	0.015		AL2-S-0250-R015	B	201010	C	201011
	1/4	3/8	2	2	0.030		AL2-S-0250-R030	B	201020	C	201021
	1/4	3/8	2	2	0.060		AL2-S-0250-R060	B	201030	C	201031
	1/4	3/8	2	2	BALL		AL2-S-0250-R125 (BALL)	B	201040	C	201041
	1/4	1/2	2 1/2	2	SQ		AL2-SR-0250-SQ	B	201100	C	201101
	1/4	1/2	2 1/2	2	0.015		AL2-SR-0250-R015	B	201110	C	201111
	1/4	1/2	2 1/2	2	0.030		AL2-SR-0250-R030	B	201120	C	201121
	1/4	1/2	2 1/2	2	0.060		AL2-SR-0250-R060	B	201130	C	201131
	1/4	1/2	2 1/2	2	BALL		AL2-SR-0250-R125 (BALL)	B	201140	C	201141
	1/4	3/4	2 1/2	2	SQ		AL2-R-0250-SQ	A	201200	A	201201
	1/4	3/4	2 1/2	2	0.015		AL2-R-0250-R015	B	201210	C	201211
	1/4	3/4	2 1/2	2	0.030		AL2-R-0250-R030	B	201220	C	201221
	1/4	3/4	2 1/2	2	0.060		AL2-R-0250-R060	B	201230	C	201231
	1/4	3/4	2 1/2	2	BALL		AL2-R-0250-R125 (BALL)	A	201240	A	201241
	1/4	1 1/4	3	2	SQ		AL2-M-0250-SQ	B	201300	C	201301
	1/4	1 1/4	3	2	0.015		AL2-M-0250-R015	B	201310	C	201311
	1/4	1 1/4	3	2	0.030		AL2-M-0250-R030	B	201320	C	201321
	1/4	1 1/4	3	2	0.060		AL2-M-0250-R060	B	201330	C	201331
	1/4	1 1/4	3	2	BALL		AL2-M-0250-R125 (BALL)	A	201340	A	201341
	1/4	3/8	4	2	SQ	1 1/4	AL2-RN-R-0250-SQ	A	201700	A	201701
	1/4	3/8	4	2	0.015	1 1/4	AL2-RN-R-0250-R015	B	201710	C	201711
	1/4	3/8	4	2	0.030	1 1/4	AL2-RN-R-0250-R030	B	201720	C	201721
	1/4	3/8	4	2	0.060	1 1/4	AL2-RN-R-0250-R060	B	201730	C	201731
	1/4	3/8	4	2	BALL	1 1/4	AL2-RN-R-0250-R125 (BALL)	A	201740	A	201741
5/16"	5/16	1/2	2	2	SQ		AL2-SR-0312-SQ	B	202100	C	202101
	5/16	1/2	2	2	0.015		AL2-SR-0312-R015	B	202110	C	202111
	5/16	1/2	2	2	0.030		AL2-SR-0312-R030	B	202120	C	202121
	5/16	1/2	2	2	BALL		AL2-SR-0312-R157 (BALL)	B	202140	C	202141
	5/16	3/4	2 1/2	2	SQ		AL2-R-0312-SQ	A	202200	A	202201
	5/16	3/4	2 1/2	2	0.015		AL2-R-0312-R015	B	202210	C	202211
	5/16	3/4	2 1/2	2	0.030		AL2-R-0312-R030	B	202220	C	202221
	5/16	3/4	2 1/2	2	BALL		AL2-R-0312-R157 (BALL)	A	202240	A	202241
	5/16	1 1/4	3	2	SQ		AL2-M-0312-SQ	B	202300	C	202301
	5/16	1 1/4	3	2	0.015		AL2-M-0312-R015	B	202310	C	202311
	5/16	1 1/4	3	2	0.030		AL2-M-0312-R030	B	202320	C	202321
	5/16	1 1/4	3	2	BALL		AL2-M-0312-R157 (BALL)	B	202340	C	202341

SERIES: AL2

2 Flute, Aluminum & Non-Ferrous, Roughing & Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	LENGTH BELOW SHANK (LBS)	DESCRIPTION	STOCK CODE	UNCOATED EDP#	STOCK CODE	HARD CARBON EDP#
3/8"	3/8	1/2	2	2	SQ		AL2-S-0375-SQ	B	203000	C	203001
	3/8	1/2	2	2	0.015		AL2-S-0375-R015	B	203010	C	203011
	3/8	1/2	2	2	0.030		AL2-S-0375-R030	B	203020	C	203021
	3/8	1/2	2	2	0.060		AL2-S-0375-R060	B	203030	C	203031
	3/8	1/2	2	2	BALL		AL2-S-0375-R188 (BALL)	B	203040	C	203041
	3/8	3/4	2 1/2	2	SQ		AL2-SR-0375-SQ	B	203100	C	203101
	3/8	3/4	2 1/2	2	0.015		AL2-SR-0375-R015	B	203110	C	203111
	3/8	3/4	2 1/2	2	0.030		AL2-SR-0375-R030	B	203120	C	203121
	3/8	3/4	2 1/2	2	0.060		AL2-SR-0375-R060	B	203130	C	203131
	3/8	3/4	2 1/2	2	BALL		AL2-SR-0375-R188 (BALL)	B	203140	C	203141
	3/8	7/8	3	2	SQ		AL2-SP-0375-SQ	B	293200	C	293201
	3/8	7/8	3	2	0.015		AL2-SP-0375-R015	B	293210	C	293211
	3/8	7/8	3	2	0.030		AL2-SP-0375-R030	B	293220	C	293221
	3/8	7/8	3	2	0.060		AL2-SP-0375-R060	B	293230	C	293231
	3/8	7/8	3	2	BALL		AL2-SP-0375-R188 (BALL)	B	293240	C	293241
	3/8	1	3	2	SQ		AL2-R-0375-SQ	A	203200	A	203201
	3/8	1	3	2	0.015		AL2-R-0375-R015	B	203210	C	203211
	3/8	1	3	2	0.030		AL2-R-0375-R030	B	203220	C	203221
	3/8	1	3	2	0.060		AL2-R-0375-R060	B	203230	C	203231
	3/8	1	3	2	BALL		AL2-R-0375-R188 (BALL)	A	203240	A	203241
	3/8	1 1/4	3	2	SQ		AL2-M-0375-SQ	B	203300	C	203301
	3/8	1 1/4	3	2	0.015		AL2-M-0375-R015	B	203310	C	203311
	3/8	1 1/4	3	2	0.030		AL2-M-0375-R030	B	203320	C	203321
	3/8	1 1/4	3	2	0.060		AL2-M-0375-R060	B	203330	C	203331
	3/8	1 1/4	3	2	BALL		AL2-M-0375-R188 (BALL)	B	203340	C	203341
	3/8	1 1/2	4	2	SQ		AL2-L-0375-SQ	A	203400	A	203401
	3/8	1 1/2	4	2	0.015		AL2-L-0375-R015	B	203410	C	203411
	3/8	1 1/2	4	2	0.030		AL2-L-0375-R030	B	203420	C	203421
	3/8	1 1/2	4	2	0.060		AL2-L-0375-R060	B	203430	C	203431
	3/8	1 1/2	4	2	BALL		AL2-L-0375-R188 (BALL)	B	203440	C	203441
	3/8	5/8	4	2	SQ	2	AL2-RN-R-0375-SQ	A	203700	A	203701
	3/8	5/8	4	2	0.015	2	AL2-RN-R-0375-R015	B	203710	C	203711
	3/8	5/8	4	2	0.030	2	AL2-RN-R-0375-R030	B	203720	C	203721
	3/8	5/8	4	2	0.060	2	AL2-RN-R-0375-R060	B	203730	C	203731
	3/8	5/8	4	2	BALL	2	AL2-RN-R-0375-R188 (BALL)	A	203740	A	203741
1/2"	1/2	5/8	2 1/2	2	SQ		AL2-S-0500-SQ	B	205000	C	205001
	1/2	5/8	2 1/2	2	0.015		AL2-S-0500-R015	B	205010	C	205011
	1/2	5/8	2 1/2	2	0.030		AL2-S-0500-R030	B	205020	C	205021
	1/2	5/8	2 1/2	2	0.060		AL2-S-0500-R060	B	205030	C	205031
	1/2	5/8	2 1/2	2	0.125		AL2-S-0500-R125	B	205040	C	205041
	1/2	5/8	2 1/2	2	BALL		AL2-S-0500-R250 (BALL)	B	205050	C	205051
	1/2	1	3	2	SQ		AL2-SR-0500-SQ	B	205100	C	205101
	1/2	1	3	2	0.015		AL2-SR-0500-R015	B	205110	C	205111
	1/2	1	3	2	0.030		AL2-SR-0500-R030	B	205120	C	205121
	1/2	1	3	2	0.060		AL2-SR-0500-R060	B	205130	C	205131
	1/2	1	3	2	0.125		AL2-SR-0500-R125	B	205140	C	205141
	1/2	1	3	2	BALL		AL2-SR-0500-R250 (BALL)	B	205150	C	205151
	1/2	1 1/4	3	2	SQ		AL2-R-0500-SQ	A	205200	A	205201
	1/2	1 1/4	3	2	0.015		AL2-R-0500-R015	B	205210	C	205211
	1/2	1 1/4	3	2	0.030		AL2-R-0500-R030	B	205220	C	205221
	1/2	1 1/4	3	2	0.060		AL2-R-0500-R060	B	205230	C	205231
	1/2	1 1/4	3	2	0.125		AL2-R-0500-R125	B	205240	C	205241
	1/2	1 1/4	3	2	BALL		AL2-R-0500-R250 (BALL)	A	205250	A	205251
	1/2	1 1/2	4	2	SQ		AL2-M-0500-SQ	B	205300	C	205301
	1/2	1 1/2	4	2	0.015		AL2-M-0500-R015	B	205310	C	205311
	1/2	1 1/2	4	2	0.030		AL2-M-0500-R030	B	205320	C	205321
	1/2	1 1/2	4	2	0.060		AL2-M-0500-R060	B	205330	C	205331

SERIES: AL2

2 Flute, Aluminum & Non-Ferrous, Roughing & Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	LENGTH BELOW SHANK (LBS)	DESCRIPTION	STOCK CODE	UNCOATED EDP#	STOCK CODE	HARD CARBON EDP#
1/2"	1/2	1 1/2	4	2	0.125		AL2-M-0500-R125	B	205340	C	205341
	1/2	1 1/2	4	2	BALL		AL2-M-0500-R250 (BALL)	B	205350	C	205351
	1/2	1 5/8	4	2	SQ		AL2-SP-0500-SQ	A	295300	A	295301
	1/2	1 5/8	4	2	0.015		AL2-SP-0500-R015	B	295310	C	295311
	1/2	1 5/8	4	2	0.030		AL2-SP-0500-R030	B	295320	C	295321
	1/2	1 5/8	4	2	0.060		AL2-SP-0500-R060	B	295330	C	295331
	1/2	1 5/8	4	2	0.125		AL2-SP-0500-R125	B	295340	C	295341
	1/2	1 5/8	4	2	BALL		AL2-SP-0500-R250 (BALL)	B	295350	C	295351
	1/2	2	4	2	SQ		AL2-L-0500-SQ	A	205400	A	205401
	1/2	2	4	2	0.015		AL2-L-0500-R015	B	205410	C	205411
	1/2	2	4	2	0.030		AL2-L-0500-R030	B	205420	C	205421
	1/2	2	4	2	0.060		AL2-L-0500-R060	B	205430	C	205431
	1/2	2	4	2	0.125		AL2-L-0500-R125	B	205440	C	205441
	1/2	2	4	2	BALL		AL2-L-0500-R250 (BALL)	B	205450	C	205451
	1/2	3/4	3	2	SQ	1 1/4	AL2-RN-S-0500-SQ	B	205600	C	205601
	1/2	3/4	3	2	0.015	1 1/4	AL2-RN-S-0500-R015	B	205610	C	205611
	1/2	3/4	3	2	0.030	1 1/4	AL2-RN-S-0500-R030	B	205620	C	205621
	1/2	3/4	3	2	0.060	1 1/4	AL2-RN-S-0500-R060	B	205630	C	205631
	1/2	3/4	3	2	0.125	1 1/4	AL2-RN-S-0500-R125	B	205640	C	205641
	1/2	3/4	3	2	BALL	1 1/4	AL2-RN-S-0500-R250 (BALL)	B	205650	C	205651
	1/2	3/4	4	2	SQ	2	AL2-RN-R-0500-SQ	A	205700	A	205701
	1/2	3/4	4	2	0.015	2	AL2-RN-R-0500-R015	B	205710	C	205711
	1/2	3/4	4	2	0.030	2	AL2-RN-R-0500-R030	B	205720	C	205721
	1/2	3/4	4	2	0.060	2	AL2-RN-R-0500-R060	B	205730	C	205731
	1/2	3/4	4	2	0.125	2	AL2-RN-R-0500-R125	B	205740	C	205741
	1/2	3/4	4	2	BALL	2	AL2-RN-R-0500-R250 (BALL)	A	205750	A	205751
	1/2	3/4	5	2	SQ	2 1/2	AL2-RN-M-0500-SQ	B	205800	C	205801
	1/2	3/4	5	2	0.015	2 1/2	AL2-RN-M-0500-R015	B	205810	C	205811
	1/2	3/4	5	2	0.030	2 1/2	AL2-RN-M-0500-R030	B	205820	C	205821
	1/2	3/4	5	2	0.060	2 1/2	AL2-RN-M-0500-R060	B	205830	C	205831
	1/2	3/4	5	2	0.125	2 1/2	AL2-RN-M-0500-R125	B	205840	C	205841
	1/2	3/4	5	2	BALL	2 1/2	AL2-RN-M-0500-R250 (BALL)	B	205850	C	205851
	1/2	3/4	6	2	SQ	3 1/2	AL2-RN-L-0500-SQ	B	205900	C	205901
	1/2	3/4	6	2	0.015	3 1/2	AL2-RN-L-0500-R015	B	205910	C	205911
	1/2	3/4	6	2	0.030	3 1/2	AL2-RN-L-0500-R030	B	205920	C	205921
	1/2	3/4	6	2	0.060	3 1/2	AL2-RN-L-0500-R060	B	205930	C	205931
	1/2	3/4	6	2	0.125	3 1/2	AL2-RN-L-0500-R125	B	205940	C	205941
	1/2	3/4	6	2	BALL	3 1/2	AL2-RN-L-0500-R250 (BALL)	B	205950	C	205951
5/8"	5/8	3/4	3	2	SQ		AL2-S-0625-SQ	B	206000	C	206001
	5/8	3/4	3	2	0.030		AL2-S-0625-R030	B	206010	C	206011
	5/8	3/4	3	2	0.060		AL2-S-0625-R060	B	206020	C	206021
	5/8	3/4	3	2	0.125		AL2-S-0625-R125	B	206030	C	206031
	5/8	3/4	3	2	BALL		AL2-S-0625-R313 (BALL)	B	206040	C	206041
	5/8	1 1/4	3 1/2	2	SQ		AL2-SR-0625-SQ	A	206100	A	206101
	5/8	1 1/4	3 1/2	2	0.030		AL2-SR-0625-R030	B	206110	C	206111
	5/8	1 1/4	3 1/2	2	0.060		AL2-SR-0625-R060	B	206120	C	206121
	5/8	1 1/4	3 1/2	2	0.125		AL2-SR-0625-R125	B	206130	C	206131
	5/8	1 1/4	3 1/2	2	BALL		AL2-SR-0625-R313 (BALL)	B	206140	C	206141
	5/8	1 1/2	3 1/2	2	SQ		AL2-R-0625-SQ	A	206200	A	206201
	5/8	1 1/2	3 1/2	2	0.030		AL2-R-0625-R030	B	206210	C	206211
	5/8	1 1/2	3 1/2	2	0.060		AL2-R-0625-R060	B	206220	C	206221
	5/8	1 1/2	3 1/2	2	0.125		AL2-R-0625-R125	B	206230	C	206231
	5/8	1 1/2	3 1/2	2	BALL		AL2-R-0625-R313 (BALL)	A	206240	A	206241
	5/8	1 5/8	3 1/2	2	SQ		AL2-SP-0625-SQ	B	296200	C	296201
	5/8	1 5/8	3 1/2	2	0.030		AL2-SP-0625-R030	B	296210	C	296211
	5/8	1 5/8	3 1/2	2	0.060		AL2-SP-0625-R060	B	296220	C	296221
	5/8	1 5/8	3 1/2	2	0.125		AL2-SP-0625-R125	B	296230	C	296231

SERIES: AL2

2 Flute, Aluminum & Non-Ferrous, Roughing & Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	LENGTH BELOW SHANK (LBS)	DESCRIPTION	STOCK CODE	UNCOATED EDP#	STOCK CODE	HARD CARBON EDP#
5/8"	5/8	1 5/8	3 1/2	2	BALL		AL2-SP-0625-R313 (BALL)	A	296240	A	296241
	5/8	2	4	2	SQ		AL2-M-0625-SQ	B	206300	C	206301
	5/8	2	4	2	0.030		AL2-M-0625-R030	B	206310	C	206311
	5/8	2	4	2	0.060		AL2-M-0625-R060	B	206320	C	206321
	5/8	2	4	2	0.125		AL2-M-0625-R125	B	206330	C	206331
	5/8	2	4	2	BALL		AL2-M-0625-R313 (BALL)	B	206340	C	206341
	5/8	1	5	2	SQ	2 1/2	AL2-RN-M-0625-SQ	B	206800	C	206801
	5/8	1	5	2	0.030	2 1/2	AL2-RN-M-0625-R030	B	206810	C	206811
	5/8	1	5	2	0.060	2 1/2	AL2-RN-M-0625-R060	B	206820	C	206821
	5/8	1	5	2	0.125	2 1/2	AL2-RN-M-0625-R125	B	206830	C	206831
	5/8	1	5	2	BALL	2 1/2	AL2-RN-M-0625-R313 (BALL)	B	206840	C	206841
3/4"	3/4	1	3	2	SQ		AL2-S-0750-SQ	B	207000	C	207001
	3/4	1	3	2	0.030		AL2-S-0750-R030	B	207010	C	207011
	3/4	1	3	2	0.060		AL2-S-0750-R060	B	207020	C	207021
	3/4	1	3	2	0.125		AL2-S-0750-R125	B	207030	C	207031
	3/4	1	3	2	BALL		AL2-S-0750-R375 (BALL)	B	207040	C	207041
	3/4	1 1/2	4	2	SQ		AL2-SR-0750-SQ	B	207100	C	207101
	3/4	1 1/2	4	2	0.030		AL2-SR-0750-R030	B	207110	C	207111
	3/4	1 1/2	4	2	0.060		AL2-SR-0750-R060	B	207120	C	207121
	3/4	1 1/2	4	2	0.125		AL2-SR-0750-R125	B	207130	C	207131
	3/4	1 1/2	4	2	BALL		AL2-SR-0750-R375 (BALL)	A	207140	A	207141
	3/4	1 5/8	4	2	SQ		AL2-SP-0750-SQ	A	297100	A	297101
	3/4	1 5/8	4	2	0.030		AL2-SP-0750-R030	B	297110	C	297111
	3/4	1 5/8	4	2	0.060		AL2-SP-0750-R060	B	297120	C	297121
	3/4	1 5/8	4	2	0.125		AL2-SP-0750-R125	B	297130	C	297131
	3/4	1 5/8	4	2	BALL		AL2-SP-0750-R375 (BALL)	B	297140	C	297141
	3/4	2	5	2	SQ		AL2-R-0750-SQ	A	207200	A	207201
	3/4	2	5	2	0.030		AL2-R-0750-R030	B	207210	C	207211
	3/4	2	5	2	0.060		AL2-R-0750-R060	B	207220	C	207221
	3/4	2	5	2	0.125		AL2-R-0750-R125	B	207230	C	207231
	3/4	2	5	2	BALL		AL2-R-0750-R375 (BALL)	A	207240	A	207241
	3/4	2 1/2	5	2	SQ		AL2-M-0750-SQ	A	207300	A	207301
	3/4	2 1/2	5	2	0.030		AL2-M-0750-R030	B	207310	C	207311
	3/4	2 1/2	5	2	0.060		AL2-M-0750-R060	B	207320	C	207321
	3/4	2 1/2	5	2	0.125		AL2-M-0750-R125	B	207330	A	207331
	3/4	2 1/2	5	2	BALL		AL2-M-0750-R375 (BALL)	B	207340	C	207341
	3/4	3	6	2	SQ		AL2-L-0750-SQ	B	207400	C	207401
	3/4	3	6	2	0.030		AL2-L-0750-R030	B	207410	C	207411
	3/4	3	6	2	0.060		AL2-L-0750-R060	B	207420	C	207421
	3/4	3	6	2	0.125		AL2-L-0750-R125	B	207430	C	207431
	3/4	3	6	2	BALL		AL2-L-0750-R375 (BALL)	B	207440	C	207441
	3/4	1 1/8	4	2	SQ	2	AL2-RN-R-0750-SQ	A	207700	A	207701
	3/4	1 1/8	4	2	0.030	2	AL2-RN-R-0750-R030	B	207710	C	207711
	3/4	1 1/8	4	2	0.060	2	AL2-RN-R-0750-R060	B	207720	C	207721
	3/4	1 1/8	4	2	0.125	2	AL2-RN-R-0750-R125	B	207730	C	207731
	3/4	1 1/8	4	2	BALL	2	AL2-RN-R-0750-R375 (BALL)	A	207740	A	207741
	3/4	1 1/8	6	2	SQ	3	AL2-RN-M-0750-SQ	B	207800	C	207801
	3/4	1 1/8	6	2	0.030	3	AL2-RN-M-0750-R030	B	207810	C	207811
	3/4	1 1/8	6	2	0.060	3	AL2-RN-M-0750-R060	B	207820	C	207821
	3/4	1 1/8	6	2	0.125	3	AL2-RN-M-0750-R125	B	207830	C	207831
	3/4	1 1/8	6	2	BALL	3	AL2-RN-M-0750-R375 (BALL)	B	207840	C	207841
1"	1	1 3/4	4	2	SQ		AL2-SR-1000-SQ	B	208100	C	208101
	1	1 3/4	4	2	0.030		AL2-SR-1000-R030	B	208110	C	208111
	1	1 3/4	4	2	0.060		AL2-SR-1000-R060	B	208120	C	208121
	1	1 3/4	4	2	0.125		AL2-SR-1000-R125	B	208130	C	208131
	1	1 3/4	4	2	BALL		AL2-SR-1000-R500 (BALL)	B	208140	C	208141

SERIES: AL2

2 Flute, Aluminum & Non-Ferrous, Roughing & Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	LENGTH BELOW SHANK (LBS)	DESCRIPTION	STOCK CODE	UNCOATED EDP#	STOCK CODE	HARD CARBON EDP#
1"	1	2 1/2	5	2	SQ		AL2-R-1000-SQ	A	208200	A	208201
	1	2 1/2	5	2	0.030		AL2-R-1000-R030	B	208210	C	208211
	1	2 1/2	5	2	0.060		AL2-R-1000-R060	B	208220	C	208221
	1	2 1/2	5	2	0.125		AL2-R-1000-R125	B	208230	C	208231
	1	2 1/2	5	2	BALL		AL2-R-1000-R500 (BALL)	A	208240	A	208241
	1	3	6	2	SQ		AL2-M-1000-SQ	B	208300	C	208301
	1	3	6	2	0.030		AL2-M-1000-R030	B	208310	C	208311
	1	3	6	2	0.060		AL2-M-1000-R060	B	208320	C	208321
	1	3	6	2	0.125		AL2-M-1000-R125	B	208330	C	208331
	1	3	6	2	BALL		AL2-M-1000-R500 (BALL)	B	208340	C	208341
	1	3 1/2	6	2	SQ		AL2-L-1000-SQ	B	208400	C	208401
	1	3 1/2	6	2	0.030		AL2-L-1000-R030	B	208410	C	208411
	1	3 1/2	6	2	0.060		AL2-L-1000-R060	B	208420	C	208421
	1	3 1/2	6	2	0.125		AL2-L-1000-R125	B	208430	C	208431
	1	3 1/2	6	2	BALL		AL2-L-1000-R500 (BALL)	B	208440	C	208441
	1	1 1/2	5	2	SQ	2 1/2	AL2-RN-R-1000-SQ	A	208700	A	208701
	1	1 1/2	5	2	0.030	2 1/2	AL2-RN-R-1000-R030	B	208710	C	208711
	1	1 1/2	5	2	0.060	2 1/2	AL2-RN-R-1000-R060	B	208720	C	208721
	1	1 1/2	5	2	0.125	2 1/2	AL2-RN-R-1000-R125	B	208730	C	208731
	1	1 1/2	5	2	BALL	2 1/2	AL2-RN-R-1000-R500 (BALL)	A	208740	A	208741
	1	1 1/2	6	2	SQ	3 1/2	AL2-RN-M-1000-SQ	B	208800	C	208801
	1	1 1/2	6	2	0.030	3 1/2	AL2-RN-M-1000-R030	B	208810	C	208811
	1	1 1/2	6	2	0.060	3 1/2	AL2-RN-M-1000-R060	B	208820	C	208821
	1	1 1/2	6	2	0.125	3 1/2	AL2-RN-M-1000-R125	B	208830	C	208831
	1	1 1/2	6	2	BALL	3 1/2	AL2-RN-M-1000-R500 (BALL)	B	208840	C	208841

Stock Code Key:

- (A) Factory Stock Item
- (B) Limited Stock (Ships in 3 - 5 Working Days)
- (C) Limited Stock (Ships in 2 Weeks)

Non-Ferrous AL3 Series



SERIES: AL3

3 Flute, Aluminum & Non-Ferrous, Roughing & Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	LENGTH BELOW SHANK (LBS)	DESCRIPTION	STOCK CODE	UNCOATED EDP#	STOCK CODE	HARD CARBON EDP#
1/8"	1/8	1/4	1 1/2	3	SQ		AL3-S-0125-SQ	B	310000	C	310001
	1/8	1/4	1 1/2	3	0.015		AL3-S-0125-R015	B	310010	C	310011
	1/8	1/4	1 1/2	3	0.063		AL3-S-0125-R063 (BALL)	B	310040	C	310041
	1/8	3/8	2	3	SQ		AL3-SR-0125-SQ	B	310100	C	310101
	1/8	3/8	2	3	0.015		AL3-SR-0125-R015	B	310110	C	310111
	1/8	3/8	2	3	0.063		AL3-SR-0125-R063 (BALL)	B	310140	C	310141
	1/8	1/2	2 1/2	3	SQ		AL3-R-0125-SQ	A	310200	A	310201
	1/8	1/2	2 1/2	3	0.015		AL3-R-0125-R015	B	310210	C	310211
	1/8	1/2	2 1/2	3	0.063		AL3-R-0125-R063 (BALL)	A	310240	A	310241
3/16"	3/16	5/16	2	3	SQ		AL3-S-0187-SQ	B	300000	C	300001
	3/16	5/16	2	3	0.015		AL3-S-0187-R015	B	300010	C	300011
	3/16	5/16	2	3	0.094		AL3-S-0187-R094 (BALL)	B	300040	C	300041
	3/16	7/16	2	3	SQ		AL3-SR-0187-SQ	B	300100	C	300101
	3/16	7/16	2	3	0.015		AL3-SR-0187-R015	B	300110	C	300111
	3/16	7/16	2	3	0.094		AL3-SR-0187-R094 (BALL)	B	300140	C	300141
	3/16	9/16	2 1/2	3	SQ		AL3-R-0187-SQ	A	300200	A	300201
	3/16	9/16	2 1/2	3	0.015		AL3-R-0187-R015	B	300210	C	300211
	3/16	9/16	2 1/2	3	0.094		AL3-R-0187-R094 (BALL)	A	300240	A	300241
1/4"	1/4	3/8	2	3	SQ		AL3-S-0250-SQ	A	301000	A	301001
	1/4	3/8	2	3	0.015		AL3-S-0250-R015	A	301010	A	301011
	1/4	3/8	2	3	0.030		AL3-S-0250-R030	A	301020	A	301021
	1/4	3/8	2	3	0.060		AL3-S-0250-R060	A	301030	A	301031
	1/4	3/8	2	3	BALL		AL3-S-0250-R125 (BALL)	A	301040	A	301041
	1/4	1/2	2 1/2	3	SQ		AL3-SR-0250-SQ	A	301100	A	301101
	1/4	1/2	2 1/2	3	0.015		AL3-SR-0250-R015	A	301110	A	301111
	1/4	1/2	2 1/2	3	0.030		AL3-SR-0250-R030	A	301120	A	301121
	1/4	1/2	2 1/2	3	0.060		AL3-SR-0250-R060	A	301130	A	301131
	1/4	1/2	2 1/2	3	BALL		AL3-SR-0250-R125 (BALL)	A	301140	A	301141
	1/4	3/4	2 1/2	3	SQ		AL3-R-0250-SQ	A	301200	A	301201
	1/4	3/4	2 1/2	3	0.015		AL3-R-0250-R015	A	301210	A	301211
	1/4	3/4	2 1/2	3	0.030		AL3-R-0250-R030	A	301220	A	301221
	1/4	3/4	2 1/2	3	0.060		AL3-R-0250-R060	A	301230	A	301231
	1/4	3/4	2 1/2	3	BALL		AL3-R-0250-R125 (BALL)	A	301240	A	301241
	1/4	1 1/4	3	3	SQ		AL3-M-0250-SQ	B	301300	C	301301
	1/4	1 1/4	3	3	0.015		AL3-M-0250-R015	B	301310	C	301311
	1/4	1 1/4	3	3	0.030		AL3-M-0250-R030	B	301320	C	301321
	1/4	1 1/4	3	3	0.060		AL3-M-0250-R060	B	301330	C	301331
	1/4	1 1/4	3	3	BALL		AL3-M-0250-R125 (BALL)	A	301340	A	301341
	1/4	3/8	4	3	SQ	1 1/4	AL3-RN-R-0250-SQ	A	301700	A	301701
	1/4	3/8	4	3	0.015	1 1/4	AL3-RN-R-0250-R015	A	301710	A	301711
	1/4	3/8	4	3	0.030	1 1/4	AL3-RN-R-0250-R030	A	301720	A	301721
	1/4	3/8	4	3	0.060	1 1/4	AL3-RN-R-0250-R060	A	301730	A	301731
	1/4	3/8	4	3	BALL	1 1/4	AL3-RN-R-0250-R125 (BALL)	A	301740	A	301741
5/16"	5/16	1/2	2	3	SQ		AL3-SR-0312-SQ	B	302100	C	302101
	5/16	1/2	2	3	0.015		AL3-SR-0312-R015	B	302110	C	302111
	5/16	1/2	2	3	0.030		AL3-SR-0312-R030	B	302120	C	302121
	5/16	1/2	2	3	BALL		AL3-SR-0312-R157 (BALL)	B	302140	C	302141
	5/16	3/4	2 1/2	3	SQ		AL3-R-0312-SQ	A	302200	C	302201
	5/16	3/4	2 1/2	3	0.015		AL3-R-0312-R015	B	302210	C	302211
	5/16	3/4	2 1/2	3	0.030		AL3-R-0312-R030	B	302220	C	302221
	5/16	3/4	2 1/2	3	BALL		AL3-R-0312-R157 (BALL)	A	302240	C	302241
	5/16	1 1/4	3	3	SQ		AL3-M-0312-SQ	B	302300	C	302301
	5/16	1 1/4	3	3	0.015		AL3-M-0312-R015	B	302310	C	302311
	5/16	1 1/4	3	3	0.030		AL3-M-0312-R030	B	302320	C	302321
	5/16	1 1/4	3	3	BALL		AL3-M-0312-R157 (BALL)	B	302340	C	302341

SERIES: AL3

3 Flute, Aluminum & Non-Ferrous, Roughing & Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	LENGTH BELOW SHANK (LBS)	DESCRIPTION	STOCK CODE	UNCOATED EDP#	STOCK CODE	HARD CARBON EDP#
3/8"	3/8	1/2	2	3	SQ		AL3-S-0375-SQ	A	303000	A	303001
	3/8	1/2	2	3	0.015		AL3-S-0375-R015	A	303010	A	303011
	3/8	1/2	2	3	0.030		AL3-S-0375-R030	A	303020	A	303021
	3/8	1/2	2	3	0.060		AL3-S-0375-R060	A	303030	A	303031
	3/8	1/2	2	3	BALL		AL3-S-0375-R188 (BALL)	A	303040	A	303041
	3/8	3/4	2 1/2	3	SQ		AL3-SR-0375-SQ	A	303100	A	303101
	3/8	3/4	2 1/2	3	0.015		AL3-SR-0375-R015	A	303110	A	303111
	3/8	3/4	2 1/2	3	0.030		AL3-SR-0375-R030	A	303120	A	303121
	3/8	3/4	2 1/2	3	0.060		AL3-SR-0375-R060	A	303130	A	303131
	3/8	3/4	2 1/2	3	BALL		AL3-SR-0375-R188 (BALL)	A	303140	A	303141
	3/8	7/8	3	3	SQ		AL3-SP-0375-SQ	B	393200	C	393201
	3/8	7/8	3	3	0.015		AL3-SP-0375-R015	B	393210	C	393211
	3/8	7/8	3	3	0.030		AL3-SP-0375-R030	B	393220	C	393221
	3/8	7/8	3	3	0.060		AL3-SP-0375-R060	B	393230	C	393231
	3/8	7/8	3	3	BALL		AL3-SP-0375-R188 (BALL)	B	393240	C	393241
	3/8	1	3	3	SQ		AL3-R-0375-SQ	A	303200	A	303201
	3/8	1	3	3	0.015		AL3-R-0375-R015	A	303210	A	303211
	3/8	1	3	3	0.030		AL3-R-0375-R030	A	303220	A	303221
	3/8	1	3	3	0.060		AL3-R-0375-R060	A	303230	A	303231
	3/8	1	3	3	BALL		AL3-R-0375-R188 (BALL)	A	303240	A	303241
	3/8	1 1/4	3	3	SQ		AL3-M-0375-SQ	B	303300	C	303301
	3/8	1 1/4	3	3	0.015		AL3-M-0375-R015	B	303310	C	303311
	3/8	1 1/4	3	3	0.030		AL3-M-0375-R030	B	303320	C	303321
	3/8	1 1/4	3	3	0.060		AL3-M-0375-R060	B	303330	C	303331
	3/8	1 1/4	3	3	BALL		AL3-M-0375-R188 (BALL)	B	303340	C	303341
	3/8	1 1/2	4	3	SQ		AL3-L-0375-SQ	A	303400	A	303401
	3/8	1 1/2	4	3	0.015		AL3-L-0375-R015	A	303410	A	303411
	3/8	1 1/2	4	3	0.030		AL3-L-0375-R030	A	303420	A	303421
	3/8	1 1/2	4	3	0.060		AL3-L-0375-R060	A	303430	A	303431
	3/8	1 1/2	4	3	BALL		AL3-L-0375-R188 (BALL)	A	303440	A	303441
	3/8	5/8	4	3	SQ	2	AL3-RN-R-0375-SQ	A	303700	A	303701
	3/8	5/8	4	3	0.015	2	AL3-RN-R-0375-R015	A	303710	A	303711
	3/8	5/8	4	3	0.030	2	AL3-RN-R-0375-R030	A	303720	A	303721
	3/8	5/8	4	3	0.060	2	AL3-RN-R-0375-R060	A	303730	A	303731
	3/8	5/8	4	3	BALL	2	AL3-RN-R-0375-R188 (BALL)	A	303740	A	303741
1/2"	1/2	5/8	2 1/2	3	SQ		AL3-S-0500-SQ	A	305000	A	305001
	1/2	5/8	2 1/2	3	0.015		AL3-S-0500-R015	A	305010	A	305011
	1/2	5/8	2 1/2	3	0.030		AL3-S-0500-R030	A	305020	A	305021
	1/2	5/8	2 1/2	3	0.060		AL3-S-0500-R060	A	305030	A	305031
	1/2	5/8	2 1/2	3	0.125		AL3-S-0500-R125	A	305040	A	305041
	1/2	5/8	2 1/2	3	BALL		AL3-S-0500-R250 (BALL)	A	305050	A	305051
	1/2	1	3	3	SQ		AL3-SR-0500-SQ	A	305100	A	305101
	1/2	1	3	3	0.015		AL3-SR-0500-R015	A	305110	A	305111
	1/2	1	3	3	0.030		AL3-SR-0500-R030	A	305120	A	305121
	1/2	1	3	3	0.060		AL3-SR-0500-R060	B	305130	A	305131
	1/2	1	3	3	0.125		AL3-SR-0500-R125	A	305140	A	305141
	1/2	1	3	3	BALL		AL3-SR-0500-R250 (BALL)	A	305150	A	305151
	1/2	1 1/4	3	3	SQ		AL3-R-0500-SQ	A	305200	A	305201
	1/2	1 1/4	3	3	0.015		AL3-R-0500-R015	A	305210	A	305211
	1/2	1 1/4	3	3	0.030		AL3-R-0500-R030	A	305220	A	305221
	1/2	1 1/4	3	3	0.060		AL3-R-0500-R060	A	305230	A	305231
	1/2	1 1/4	3	3	0.125		AL3-R-0500-R125	A	305240	C	305241
	1/2	1 1/4	3	3	BALL		AL3-R-0500-R250 (BALL)	A	305250	A	305251
	1/2	1 1/2	4	3	SQ		AL3-M-0500-SQ	A	305300	A	305301
	1/2	1 1/2	4	3	0.015		AL3-M-0500-R015	A	305310	A	305311
	1/2	1 1/2	4	3	0.030		AL3-M-0500-R030	A	305320	A	305321
	1/2	1 1/2	4	3	0.060		AL3-M-0500-R060	A	305330	A	305331

SERIES: AL3

3 Flute, Aluminum & Non-Ferrous, Roughing & Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	LENGTH BELOW SHANK (LBS)	DESCRIPTION	STOCK CODE	UNCOATED EDP#	STOCK CODE	HARD CARBON EDP#
1/2"	1/2	1 1/2	4	3	0.125		AL3-M-0500-R125	A	305340	A	305341
	1/2	1 1/2	4	3	BALL		AL3-M-0500-R250 (BALL)	A	305350	A	305351
	1/2	1 5/8	4	3	SQ		AL3-SP-0500-SQ	B	395300	A	395301
	1/2	1 5/8	4	3	0.015		AL3-SP-0500-R015	B	395310	C	395311
	1/2	1 5/8	4	3	0.030		AL3-SP-0500-R030	B	395320	C	395321
	1/2	1 5/8	4	3	0.060		AL3-SP-0500-R060	B	395330	C	395331
	1/2	1 5/8	4	3	0.125		AL3-SP-0500-R125	B	395340	C	395341
	1/2	1 5/8	4	3	BALL		AL3-SP-0500-R250 (BALL)	B	395350	C	395351
	1/2	2	4	3	SQ		AL3-L-0500-SQ	A	305400	A	305401
	1/2	2	4	3	0.015		AL3-L-0500-R015	A	305410	A	305411
	1/2	2	4	3	0.030		AL3-L-0500-R030	A	305420	A	305421
	1/2	2	4	3	0.060		AL3-L-0500-R060	A	305430	A	305431
	1/2	2	4	3	0.125		AL3-L-0500-R125	A	305440	A	305441
	1/2	2	4	3	BALL		AL3-L-0500-R250 (BALL)	A	305450	A	305451
	1/2	3/4	3	3	SQ	1 1/4	AL3-RN-S-0500-SQ	A	305600	A	305601
	1/2	3/4	3	3	0.015	1 1/4	AL3-RN-S-0500-R015	B	305610	C	305611
	1/2	3/4	3	3	0.030	1 1/4	AL3-RN-S-0500-R030	A	305620	A	305621
	1/2	3/4	3	3	0.060	1 1/4	AL3-RN-S-0500-R060	B	305630	C	305631
	1/2	3/4	3	3	0.125	1 1/4	AL3-RN-S-0500-R125	B	305640	C	305641
	1/2	3/4	3	3	BALL	1 1/4	AL3-RN-S-0500-R250 (BALL)	A	305650	A	305651
	1/2	3/4	4	3	SQ	2	AL3-RN-R-0500-SQ	A	305700	A	305701
	1/2	3/4	4	3	0.015	2	AL3-RN-R-0500-R015	B	305710	C	305711
	1/2	3/4	4	3	0.030	2	AL3-RN-R-0500-R030	A	305720	A	305721
	1/2	3/4	4	3	0.060	2	AL3-RN-R-0500-R060	B	305730	C	305731
	1/2	3/4	4	3	0.125	2	AL3-RN-R-0500-R125	B	305740	C	305741
	1/2	3/4	4	3	BALL	2	AL3-RN-R-0500-R250 (BALL)	A	305750	A	305751
	1/2	3/4	5	3	SQ	2 1/2	AL3-RN-M-0500-SQ	A	305800	A	305801
	1/2	3/4	5	3	0.015	2 1/2	AL3-RN-M-0500-R015	A	305810	C	305811
	1/2	3/4	5	3	0.030	2 1/2	AL3-RN-M-0500-R030	A	305820	A	305821
	1/2	3/4	5	3	0.060	2 1/2	AL3-RN-M-0500-R060	A	305830	A	305831
	1/2	3/4	5	3	0.125	2 1/2	AL3-RN-M-0500-R125	A	305840	A	305841
	1/2	3/4	5	3	BALL	2 1/2	AL3-RN-M-0500-R250 (BALL)	A	305850	A	305851
	1/2	3/4	6	3	SQ	3 1/2	AL3-RN-L-0500-SQ	A	305900	A	305901
	1/2	3/4	6	3	0.015	3 1/2	AL3-RN-L-0500-R015	B	305910	C	305911
	1/2	3/4	6	3	0.030	3 1/2	AL3-RN-L-0500-R030	B	305920	C	305921
	1/2	3/4	6	3	0.060	3 1/2	AL3-RN-L-0500-R060	A	305930	A	305931
	1/2	3/4	6	3	0.125	3 1/2	AL3-RN-L-0500-R125	B	305940	C	305941
	1/2	3/4	6	3	BALL	3 1/2	AL3-RN-L-0500-R250 (BALL)	B	305950	C	305951
5/8"	5/8	3/4	3	3	SQ		AL3-S-0625-SQ	B	306000	C	306001
	5/8	3/4	3	3	0.030		AL3-S-0625-R030	B	306010	C	306011
	5/8	3/4	3	3	0.060		AL3-S-0625-R060	B	306020	C	306021
	5/8	3/4	3	3	0.125		AL3-S-0625-R125	B	306030	C	306031
	5/8	3/4	3	3	BALL		AL3-S-0625-R313 (BALL)	B	306040	C	306041
	5/8	1 1/4	3 1/2	3	SQ		AL3-SR-0625-SQ	A	306100	A	306101
	5/8	1 1/4	3 1/2	3	0.030		AL3-SR-0625-R030	A	306110	A	306111
	5/8	1 1/4	3 1/2	3	0.060		AL3-SR-0625-R060	A	306120	A	306121
	5/8	1 1/4	3 1/2	3	0.125		AL3-SR-0625-R125	A	306130	A	306131
	5/8	1 1/4	3 1/2	3	BALL		AL3-SR-0625-R313 (BALL)	A	306140	A	306141
	5/8	1 1/2	3 1/2	3	SQ		AL3-R-0625-SQ	A	306200	C	306201
	5/8	1 1/2	3 1/2	3	0.030		AL3-R-0625-R030	B	306210	C	306211
	5/8	1 1/2	3 1/2	3	0.060		AL3-R-0625-R060	B	306220	C	306221
	5/8	1 1/2	3 1/2	3	0.125		AL3-R-0625-R125	B	306230	C	306231
	5/8	1 1/2	3 1/2	3	BALL		AL3-R-0625-R313 (BALL)	A	306240	C	306241
	5/8	1 5/8	3 1/2	3	SQ		AL3-SP-0625-SQ	B	396200	C	396201
	5/8	1 5/8	3 1/2	3	0.030		AL3-SP-0625-R030	B	396210	C	396211
	5/8	1 5/8	3 1/2	3	0.060		AL3-SP-0625-R060	B	396220	C	396221

SERIES: AL3

3 Flute, Aluminum & Non-Ferrous, Roughing & Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	LENGTH BELOW SHANK (LBS)	DESCRIPTION	STOCK CODE	UNCOATED EDP#	STOCK CODE	HARD CARBON EDP#
5/8"	5/8	1 5/8	3 1/2	3	0.125		AL3-SP-0625-R125	B	396230	C	396231
	5/8	1 5/8	3 1/2	3	BALL		AL3-SP-0625-R313 (BALL)	A	396240	A	396241
	5/8	2	4	3	SQ		AL3-M-0625-SQ	A	306300	A	306301
	5/8	2	4	3	0.030		AL3-M-0625-R030	A	306310	A	306311
	5/8	2	4	3	0.060		AL3-M-0625-R060	A	306320	A	306321
	5/8	2	4	3	0.125		AL3-M-0625-R125	A	306330	A	306331
	5/8	2	4	3	BALL		AL3-M-0625-R313 (BALL)	A	306340	A	306341
	5/8	2 1/2	5	3	SQ		AL3-L-0625-SQ	B	306400	C	306401
	5/8	2 1/2	5	3	0.030		AL3-L-0625-R030	B	306410	C	306411
	5/8	2 1/2	5	3	0.060		AL3-L-0625-R060	B	306420	C	306421
	5/8	2 1/2	5	3	0.125		AL3-L-0625-R125	B	306430	C	306431
	5/8	2 1/2	5	3	BALL		AL3-L-0625-R313 (BALL)	A	306440	A	306441
	5/8	1	5	3	SQ	2 1/2	AL3-RN-M-0625-SQ	A	306800	A	306801
	5/8	1	5	3	0.030	2 1/2	AL3-RN-M-0625-R030	A	306810	A	306811
	5/8	1	5	3	0.060	2 1/2	AL3-RN-M-0625-R060	B	306820	C	306821
	5/8	1	5	3	0.125	2 1/2	AL3-RN-M-0625-R125	B	306830	C	306831
	5/8	1	5	3	BALL	2 1/2	AL3-RN-M-0625-R313 (BALL)	B	306840	C	306841
3/4"	3/4	1	3	3	SQ		AL3-S-0750-SQ	B	307000	C	307001
	3/4	1	3	3	0.030		AL3-S-0750-R030	B	307010	C	307011
	3/4	1	3	3	0.060		AL3-S-0750-R060	B	307020	C	307021
	3/4	1	3	3	0.125		AL3-S-0750-R125	B	307030	C	307031
	3/4	1	3	3	BALL		AL3-S-0750-R375 (BALL)	B	307040	C	307041
	3/4	1 1/2	4	3	SQ		AL3-SR-0750-SQ	A	307100	A	307101
	3/4	1 1/2	4	3	0.030		AL3-SR-0750-R030	A	307110	A	307111
	3/4	1 1/2	4	3	0.060		AL3-SR-0750-R060	A	307120	A	307121
	3/4	1 1/2	4	3	0.125		AL3-SR-0750-R125	A	307130	A	307131
	3/4	1 1/2	4	3	BALL		AL3-SR-0750-R375 (BALL)	A	307140	A	307141
	3/4	1 5/8	4	3	SQ		AL3-SP-0750-SQ	A	397100	A	397101
	3/4	1 5/8	4	3	0.030		AL3-SP-0750-R030	B	397110	C	397111
	3/4	1 5/8	4	3	0.060		AL3-SP-0750-R060	B	397120	C	397121
	3/4	1 5/8	4	3	0.125		AL3-SP-0750-R125	B	397130	C	397131
	3/4	1 5/8	4	3	BALL		AL3-SP-0750-R375 (BALL)	B	397140	C	397141
	3/4	2	5	3	SQ		AL3-R-0750-SQ	A	307200	A	307201
	3/4	2	5	3	0.030		AL3-R-0750-R030	A	307210	A	307211
	3/4	2	5	3	0.060		AL3-R-0750-R060	A	307220	A	307221
	3/4	2	5	3	0.125		AL3-R-0750-R125	A	307230	A	307231
	3/4	2	5	3	BALL		AL3-R-0750-R375 (BALL)	A	307240	A	307241
	3/4	2 1/2	5	3	SQ		AL3-M-0750-SQ	A	307300	A	307301
	3/4	2 1/2	5	3	0.030		AL3-M-0750-R030	B	307310	C	307311
	3/4	2 1/2	5	3	0.060		AL3-M-0750-R060	B	307320	C	307321
	3/4	2 1/2	5	3	0.125		AL3-M-0750-R125	A	307330	A	307331
	3/4	2 1/2	5	3	BALL		AL3-M-0750-R375 (BALL)	B	307340	C	307341
	3/4	3	6	3	SQ		AL3-L-0750-SQ	A	307400	A	307401
	3/4	3	6	3	0.030		AL3-L-0750-R030	A	307410	A	307411
	3/4	3	6	3	0.060		AL3-L-0750-R060	A	307420	A	307421
	3/4	3	6	3	0.125		AL3-L-0750-R125	A	307430	A	307431
	3/4	3	6	3	BALL		AL3-L-0750-R375 (BALL)	A	307440	A	307441
	3/4	1 1/8	4	3	SQ	2	AL3-RN-R-0750-SQ	A	307700	C	307701
	3/4	1 1/8	4	3	0.030	2	AL3-RN-R-0750-R030	B	307710	C	307711
	3/4	1 1/8	4	3	0.060	2	AL3-RN-R-0750-R060	B	307720	C	307721
	3/4	1 1/8	4	3	0.125	2	AL3-RN-R-0750-R125	A	307730	A	307731
	3/4	1 1/8	4	3	BALL	2	AL3-RN-R-0750-R375 (BALL)	A	307740	C	307741
	3/4	1 1/8	6	3	SQ	3	AL3-RN-M-0750-SQ	A	307800	A	307801
	3/4	1 1/8	6	3	0.030	3	AL3-RN-M-0750-R030	A	307810	A	307811
	3/4	1 1/8	6	3	0.060	3	AL3-RN-M-0750-R060	B	307820	C	307821
	3/4	1 1/8	6	3	0.125	3	AL3-RN-M-0750-R125	A	307830	A	307831
	3/4	1 1/8	6	3	BALL	3	AL3-RN-M-0750-R375 (BALL)	A	307840	A	307841

SERIES: AL3

3 Flute, Aluminum & Non-Ferrous, Roughing & Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	LENGTH BELOW SHANK (LBS)	DESCRIPTION	STOCK CODE	UNCOATED EDP#	STOCK CODE	HARD CARBON EDP#
1"	1	1 3/4	4	3	SQ		AL3-SR-1000-SQ	A	308100	A	308101
	1	1 3/4	4	3	0.030		AL3-SR-1000-R030	A	308110	A	308111
	1	1 3/4	4	3	0.060		AL3-SR-1000-R060	B	308120	C	308121
	1	1 3/4	4	3	0.125		AL3-SR-1000-R125	A	308130	A	308131
	1	1 3/4	4	3	BALL		AL3-SR-1000-R500 (BALL)	A	308140	C	308141
	1	2 1/2	5	3	SQ		AL3-R-1000-SQ	A	308200	A	308201
	1	2 1/2	5	3	0.030		AL3-R-1000-R030	A	308210	A	308211
	1	2 1/2	5	3	0.060		AL3-R-1000-R060	B	308220	C	308221
	1	2 1/2	5	3	0.125		AL3-R-1000-R125	B	308230	C	308231
	1	2 1/2	5	3	BALL		AL3-R-1000-R500 (BALL)	A	308240	C	308241
	1	3	6	3	SQ		AL3-M-1000-SQ	A	308300	A	308301
	1	3	6	3	0.030		AL3-M-1000-R030	A	308310	A	308311
	1	3	6	3	0.060		AL3-M-1000-R060	A	308320	A	308321
	1	3	6	3	0.125		AL3-M-1000-R125	B	308330	C	308331
	1	3	6	3	BALL		AL3-M-1000-R500 (BALL)	A	308340	C	308341
	1	3 1/2	6	3	SQ		AL3-L-1000-SQ	B	308400	C	308401
	1	3 1/2	6	3	0.030		AL3-L-1000-R030	B	308410	C	308411
	1	3 1/2	6	3	0.060		AL3-L-1000-R060	B	308420	C	308421
	1	3 1/2	6	3	0.125		AL3-L-1000-R125	B	308430	C	308431
	1	3 1/2	6	3	BALL		AL3-L-1000-R500 (BALL)	B	308440	C	308441
	1	1 1/2	5	3	SQ	2 1/2	AL3-RN-R-1000-SQ	A	308700	C	308701
	1	1 1/2	5	3	0.030	2 1/2	AL3-RN-R-1000-R030	A	308710	A	308711
	1	1 1/2	5	3	0.060	2 1/2	AL3-RN-R-1000-R060	B	308720	C	308721
	1	1 1/2	5	3	0.125	2 1/2	AL3-RN-R-1000-R125	B	308730	C	308731
	1	1 1/2	5	3	BALL	2 1/2	AL3-RN-R-1000-R500 (BALL)	A	308740	C	308741
	1	1 1/2	6	3	SQ	3 1/2	AL3-RN-M-1000-SQ	A	308800	A	308801
	1	1 1/2	6	3	0.030	3 1/2	AL3-RN-M-1000-R030	B	308810	C	308811
	1	1 1/2	6	3	0.060	3 1/2	AL3-RN-M-1000-R060	B	308820	C	308821
	1	1 1/2	6	3	0.125	3 1/2	AL3-RN-M-1000-R125	B	308830	C	308831
	1	1 1/2	6	3	BALL	3 1/2	AL3-RN-M-1000-R500 (BALL)	B	308840	C	308841

Stock Code Key:

- (A) Factory Stock Item
- (B) Limited Stock (Ships in 3 - 5 Working Days)
- (C) Limited Stock (Ships in 2 Weeks)

Ferrous VST4 Series



SERIES: VST4

4 Flute, Variable Pitch, Steel/Stainless Steel/Hi-Temp Alloys/Cast Iron, Roughing & Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	LENGTH BELOW SHANK (LBS)	DESCRIPTION	COATING	STOCK CODE	EDP#
1/8"	1/8	1/4	1 1/2	4	SQ		VST4-S-0125-SQ	Latuma	A	410001
	1/8	1/4	1 1/2	4	0.015		VST4-S-0125-R015	Latuma	A	410011
	1/8	1/4	1 1/2	4	0.063		VST4-S-0125-R063 (BALL)	Latuma	C	410041
	1/8	3/8	2	4	SQ		VST4-SR-0125-SQ	Latuma	A	410101
	1/8	3/8	2	4	0.015		VST4-SR-0125-R015	Latuma	C	410111
	1/8	3/8	2	4	0.063		VST4-SR-0125-R063 (BALL)	Latuma	C	410141
	1/8	1/2	2 1/2	4	SQ		VST4-R-0125-SQ	Latuma	A	410201
	1/8	1/2	2 1/2	4	0.015		VST4-R-0125-R015	Latuma	A	410211
	1/8	1/2	2 1/2	4	0.063		VST4-R-0125-R063 (BALL)	Latuma	C	410241
3/16"	3/16	5/16	2	4	SQ		VST4-S-0187-SQ	Latuma	A	400001
	3/16	5/16	2	4	0.015		VST4-S-0187-R015	Latuma	C	400011
	3/16	5/16	2	4	0.094		VST4-S-0187-R094 (BALL)	Latuma	C	400041
	3/16	7/16	2	4	SQ		VST4-SR-0187-SQ	Latuma	A	400101
	3/16	7/16	2	4	0.015		VST4-SR-0187-R015	Latuma	C	400111
	3/16	7/16	2	4	0.094		VST4-SR-0187-R094 (BALL)	Latuma	C	400141
	3/16	9/16	2 1/2	4	SQ		VST4-R-0187-SQ	Latuma	A	400201
	3/16	9/16	2 1/2	4	0.015		VST4-R-0187-R015	Latuma	C	400211
	3/16	9/16	2 1/2	4	0.094		VST4-R-0187-R094 (BALL)	Latuma	C	400241
1/4"	1/4	3/8	2	4	SQ		VST4-S-0250-SQ	Latuma	A	401001
	1/4	3/8	2	4	0.015		VST4-S-0250-R015	Latuma	A	401011
	1/4	3/8	2	4	0.030		VST4-S-0250-R030	Latuma	A	401021
	1/4	3/8	2	4	0.060		VST4-S-0250-R060	Latuma	A	401031
	1/4	3/8	2	4	BALL		VST4-S-0250-R125 (BALL)	Latuma	A	401041
	1/4	1/2	2 1/2	4	SQ		VST4-SR-0250-SQ	Latuma	A	401101
	1/4	1/2	2 1/2	4	0.015		VST4-SR-0250-R015	Latuma	A	401111
	1/4	1/2	2 1/2	4	0.030		VST4-SR-0250-R030	Latuma	A	401121
	1/4	1/2	2 1/2	4	0.060		VST4-SR-0250-R060	Latuma	A	401131
	1/4	1/2	2 1/2	4	BALL		VST4-SR-0250-R125 (BALL)	Latuma	A	401141
	1/4	3/4	2 1/2	4	SQ		VST4-R-0250-SQ	Latuma	A	401201
	1/4	3/4	2 1/2	4	0.015		VST4-R-0250-R015	Latuma	A	401211
	1/4	3/4	2 1/2	4	0.030		VST4-R-0250-R030	Latuma	A	401221
	1/4	3/4	2 1/2	4	0.060		VST4-R-0250-R060	Latuma	A	401231
	1/4	3/4	2 1/2	4	BALL		VST4-R-0250-R125 (BALL)	Latuma	A	401241
	1/4	1 1/4	3	4	SQ		VST4-M-0250-SQ	Latuma	A	401301
	1/4	1 1/4	3	4	0.015		VST4-M-0250-R015	Latuma	C	401311
	1/4	1 1/4	3	4	0.030		VST4-M-0250-R030	Latuma	C	401321
	1/4	1 1/4	3	4	0.060		VST4-M-0250-R060	Latuma	C	401331
	1/4	1 1/4	3	4	BALL		VST4-M-0250-R125 (BALL)	Latuma	C	401341
	1/4	3/8	4	4	SQ	1 1/4	VST4-RN-R-0250-SQ	Latuma	A	401701
	1/4	3/8	4	4	0.015	1 1/4	VST4-RN-R-0250-R015	Latuma	A	401711
	1/4	3/8	4	4	0.030	1 1/4	VST4-RN-R-0250-R030	Latuma	C	401721
	1/4	3/8	4	4	0.060	1 1/4	VST4-RN-R-0250-R060	Latuma	C	401731
	1/4	3/8	4	4	BALL	1 1/4	VST4-RN-R-0250-R125 (BALL)	Latuma	C	401741
5/16"	5/16	1/2	2	4	SQ		VST4-SR-0312-SQ	Latuma	A	402101
	5/16	1/2	2	4	0.015		VST4-SR-0312-R015	Latuma	C	402111
	5/16	1/2	2	4	0.030		VST4-SR-0312-R030	Latuma	C	402121
	5/16	1/2	2	4	BALL		VST4-SR-0312-R157 (BALL)	Latuma	C	402141
	5/16	3/4	2 1/2	4	SQ		VST4-R-0312-SQ	Latuma	A	402201
	5/16	3/4	2 1/2	4	0.015		VST4-R-0312-R015	Latuma	A	402211
	5/16	3/4	2 1/2	4	0.030		VST4-R-0312-R030	Latuma	C	402221
	5/16	3/4	2 1/2	4	BALL		VST4-R-0312-R157 (BALL)	Latuma	A	402241
	5/16	1 1/4	3	4	SQ		VST4-M-0312-SQ	Latuma	A	402301
	5/16	1 1/4	3	4	0.015		VST4-M-0312-R015	Latuma	C	402311
	5/16	1 1/4	3	4	0.030		VST4-M-0312-R030	Latuma	C	402321
	5/16	1 1/4	3	4	BALL		VST4-M-0312-R157 (BALL)	Latuma	C	402341

SERIES: VST4

4 Flute, Variable Pitch, Steel/Stainless Steel/Hi-Temp Alloys/Cast Iron, Roughing & Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	LENGTH BELOW SHANK (LBS)	DESCRIPTION	COATING	STOCK CODE	EDP#
3/8"	3/8	1/2	2	4	SQ		VST4-S-0375-SQ	Latuma	A	403001
	3/8	1/2	2	4	0.015		VST4-S-0375-R015	Latuma	A	403011
	3/8	1/2	2	4	0.030		VST4-S-0375-R030	Latuma	A	403021
	3/8	1/2	2	4	0.060		VST4-S-0375-R060	Latuma	A	403031
	3/8	1/2	2	4	BALL		VST4-S-0375-R188 (BALL)	Latuma	A	403041
	3/8	3/4	2 1/2	4	SQ		VST4-SR-0375-SQ	Latuma	A	403101
	3/8	3/4	2 1/2	4	0.015		VST4-SR-0375-R015	Latuma	A	403111
	3/8	3/4	2 1/2	4	0.030		VST4-SR-0375-R030	Latuma	A	403121
	3/8	3/4	2 1/2	4	0.060		VST4-SR-0375-R060	Latuma	A	403131
	3/8	3/4	2 1/2	4	BALL		VST4-SR-0375-R188 (BALL)	Latuma	A	403141
	3/8	7/8	3	4	SQ		VST4-SP-0375-SQ	Latuma	A	493201
	3/8	7/8	3	4	0.015		VST4-SP-0375-R015	Latuma	A	493211
	3/8	7/8	3	4	0.030		VST4-SP-0375-R030	Latuma	A	493221
	3/8	7/8	3	4	0.060		VST4-SP-0375-R060	Latuma	A	493231
	3/8	7/8	3	4	BALL		VST4-SP-0375-R188 (BALL)	Latuma	A	493241
	3/8	1	3	4	SQ		VST4-R-0375-SQ	Latuma	A	403201
	3/8	1	3	4	0.015		VST4-R-0375-R015	Latuma	A	403211
	3/8	1	3	4	0.030		VST4-R-0375-R030	Latuma	A	403221
	3/8	1	3	4	0.060		VST4-R-0375-R060	Latuma	A	403231
	3/8	1	3	4	BALL		VST4-R-0375-R188 (BALL)	Latuma	A	403241
	3/8	1 1/4	3	4	SQ		VST4-M-0375-SQ	Latuma	A	403301
	3/8	1 1/4	3	4	0.015		VST4-M-0375-R015	Latuma	C	403311
	3/8	1 1/4	3	4	0.030		VST4-M-0375-R030	Latuma	C	403321
	3/8	1 1/4	3	4	0.060		VST4-M-0375-R060	Latuma	C	403331
	3/8	1 1/4	3	4	BALL		VST4-M-0375-R188 (BALL)	Latuma	C	403341
	3/8	1 1/2	4	4	SQ		VST4-L-0375-SQ	Latuma	A	403401
	3/8	1 1/2	4	4	0.015		VST4-L-0375-R015	Latuma	A	403411
	3/8	1 1/2	4	4	0.030		VST4-L-0375-R030	Latuma	A	403421
	3/8	1 1/2	4	4	0.060		VST4-L-0375-R060	Latuma	A	403431
	3/8	1 1/2	4	4	BALL		VST4-L-0375-R188 (BALL)	Latuma	A	403441
	3/8	5/8	4	4	SQ	2	VST4-RN-R-0375-SQ	Latuma	A	403701
	3/8	5/8	4	4	0.015	2	VST4-RN-R-0375-R015	Latuma	A	403711
	3/8	5/8	4	4	0.030	2	VST4-RN-R-0375-R030	Latuma	A	403721
	3/8	5/8	4	4	0.060	2	VST4-RN-R-0375-R060	Latuma	A	403731
	3/8	5/8	4	4	BALL	2	VST4-RN-R-0375-R188 (BALL)	Latuma	A	403741
1/2"	1/2	5/8	2 1/2	4	SQ		VST4-S-0500-SQ	Latuma	A	405001
	1/2	5/8	2 1/2	4	0.015		VST4-S-0500-R015	Latuma	A	405011
	1/2	5/8	2 1/2	4	0.030		VST4-S-0500-R030	Latuma	A	405021
	1/2	5/8	2 1/2	4	0.060		VST4-S-0500-R060	Latuma	A	405031
	1/2	5/8	2 1/2	4	0.125		VST4-S-0500-R125	Latuma	A	405041
	1/2	5/8	2 1/2	4	BALL		VST4-S-0500-R250 (BALL)	Latuma	A	405051
	1/2	1	3	4	SQ		VST4-SR-0500-SQ	Latuma	A	405101
	1/2	1	3	4	0.015		VST4-SR-0500-R015	Latuma	A	405111
	1/2	1	3	4	0.030		VST4-SR-0500-R030	Latuma	A	405121
	1/2	1	3	4	0.060		VST4-SR-0500-R060	Latuma	A	405131
	1/2	1	3	4	0.125		VST4-SR-0500-R125	Latuma	A	405141
	1/2	1	3	4	BALL		VST4-SR-0500-R250 (BALL)	Latuma	A	405151
	1/2	1 1/4	3	4	SQ		VST4-R-0500-SQ	Latuma	A	405201
	1/2	1 1/4	3	4	0.015		VST4-R-0500-R015	Latuma	A	405211
	1/2	1 1/4	3	4	0.030		VST4-R-0500-R030	Latuma	A	405221
	1/2	1 1/4	3	4	0.060		VST4-R-0500-R060	Latuma	A	405231
	1/2	1 1/4	3	4	0.125		VST4-R-0500-R125	Latuma	A	405241
	1/2	1 1/4	3	4	BALL		VST4-R-0500-R250 (BALL)	Latuma	A	405251
	1/2	1 1/2	4	4	SQ		VST4-M-0500-SQ	Latuma	A	405301
	1/2	1 1/2	4	4	0.015		VST4-M-0500-R015	Latuma	A	405311
	1/2	1 1/2	4	4	0.030		VST4-M-0500-R030	Latuma	A	405321
	1/2	1 1/2	4	4	0.060		VST4-M-0500-R060	Latuma	A	405331
	1/2	1 1/2	4	4	0.125		VST4-M-0500-R125	Latuma	A	405341
	1/2	1 1/2	4	4	BALL		VST4-M-0500-R250 (BALL)	Latuma	A	405351

SERIES: VST4

4 Flute, Variable Pitch, Steel/Stainless Steel/Hi-Temp Alloys/Cast Iron, Roughing & Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	LENGTH BELOW SHANK (LBS)	DESCRIPTION	COATING	STOCK CODE	EDP#
1/2"	1/2	1 5/8	4	4	SQ		VST4-SP-0500-SQ	Latuma	A	495301
	1/2	1 5/8	4	4	0.015		VST4-SP-0500-R015	Latuma	A	495311
	1/2	1 5/8	4	4	0.030		VST4-SP-0500-R030	Latuma	A	495321
	1/2	1 5/8	4	4	0.060		VST4-SP-0500-R060	Latuma	C	495331
	1/2	1 5/8	4	4	0.125		VST4-SP-0500-R125	Latuma	C	495341
	1/2	1 5/8	4	4	BALL		VST4-SP-0500-R250 (BALL)	Latuma	C	495351
	1/2	2	4	4	SQ		VST4-L-0500-SQ	Latuma	A	405401
	1/2	2	4	4	0.015		VST4-L-0500-R015	Latuma	A	405411
	1/2	2	4	4	0.030		VST4-L-0500-R030	Latuma	A	405421
	1/2	2	4	4	0.060		VST4-L-0500-R060	Latuma	A	405431
	1/2	2	4	4	0.125		VST4-L-0500-R125	Latuma	A	405441
	1/2	2	4	4	BALL		VST4-L-0500-R250 (BALL)	Latuma	A	405451
	1/2	3/4	3	4	SQ	1 1/4	VST4-RN-S-0500-SQ	Latuma	A	405601
	1/2	3/4	3	4	0.015	1 1/4	VST4-RN-S-0500-R015	Latuma	C	405611
	1/2	3/4	3	4	0.030	1 1/4	VST4-RN-S-0500-R030	Latuma	A	405621
	1/2	3/4	3	4	0.060	1 1/4	VST4-RN-S-0500-R060	Latuma	A	405631
	1/2	3/4	3	4	0.125	1 1/4	VST4-RN-S-0500-R125	Latuma	C	405641
	1/2	3/4	3	4	BALL	1 1/4	VST4-RN-S-0500-R250 (BALL)	Latuma	C	405651
	1/2	3/4	4	4	SQ	2	VST4-RN-R-0500-SQ	Latuma	A	405701
	1/2	3/4	4	4	0.015	2	VST4-RN-R-0500-R015	Latuma	C	405711
	1/2	3/4	4	4	0.030	2	VST4-RN-R-0500-R030	Latuma	A	405721
	1/2	3/4	4	4	0.060	2	VST4-RN-R-0500-R060	Latuma	C	405731
	1/2	3/4	4	4	0.125	2	VST4-RN-R-0500-R125	Latuma	C	405741
	1/2	3/4	4	4	BALL	2	VST4-RN-R-0500-R250 (BALL)	Latuma	A	405751
	1/2	3/4	5	4	SQ	2 1/2	VST4-RN-M-0500-SQ	Latuma	C	405801
	1/2	3/4	5	4	0.015	2 1/2	VST4-RN-M-0500-R015	Latuma	C	405811
	1/2	3/4	5	4	0.030	2 1/2	VST4-RN-M-0500-R030	Latuma	C	405821
	1/2	3/4	5	4	0.060	2 1/2	VST4-RN-M-0500-R060	Latuma	C	405831
	1/2	3/4	5	4	0.125	2 1/2	VST4-RN-M-0500-R125	Latuma	C	405841
	1/2	3/4	5	4	BALL	2 1/2	VST4-RN-M-0500-R250 (BALL)	Latuma	A	405851
	1/2	3/4	6	4	SQ	3 1/2	VST4-RN-L-0500-SQ	Latuma	A	405901
	1/2	3/4	6	4	0.015	3 1/2	VST4-RN-L-0500-R015	Latuma	A	405911
	1/2	3/4	6	4	0.030	3 1/2	VST4-RN-L-0500-R030	Latuma	A	405921
	1/2	3/4	6	4	0.060	3 1/2	VST4-RN-L-0500-R060	Latuma	C	405931
	1/2	3/4	6	4	0.125	3 1/2	VST4-RN-L-0500-R125	Latuma	C	405941
	1/2	3/4	6	4	BALL	3 1/2	VST4-RN-L-0500-R250 (BALL)	Latuma	C	405951
5/8"	5/8	3/4	3	4	SQ		VST4-S-0625-SQ	Latuma	A	406001
	5/8	3/4	3	4	0.030		VST4-S-0625-R030	Latuma	A	406011
	5/8	3/4	3	4	0.060		VST4-S-0625-R060	Latuma	C	406021
	5/8	3/4	3	4	0.125		VST4-S-0625-R125	Latuma	C	406031
	5/8	3/4	3	4	BALL		VST4-S-0625-R313 (BALL)	Latuma	C	406041
	5/8	1 1/4	3 1/2	4	SQ		VST4-SR-0625-SQ	Latuma	A	406101
	5/8	1 1/4	3 1/2	4	0.030		VST4-SR-0625-R030	Latuma	A	406111
	5/8	1 1/4	3 1/2	4	0.060		VST4-SR-0625-R060	Latuma	A	406121
	5/8	1 1/4	3 1/2	4	0.125		VST4-SR-0625-R125	Latuma	A	406131
	5/8	1 1/4	3 1/2	4	BALL		VST4-SR-0625-R313 (BALL)	Latuma	A	406141
	5/8	1 1/2	3 1/2	4	SQ		VST4-R-0625-SQ	Latuma	A	406201
	5/8	1 1/2	3 1/2	4	0.030		VST4-R-0625-R030	Latuma	A	406211
	5/8	1 1/2	3 1/2	4	0.060		VST4-R-0625-R060	Latuma	C	406221
	5/8	1 1/2	3 1/2	4	0.125		VST4-R-0625-R125	Latuma	C	406231
	5/8	1 1/2	3 1/2	4	BALL		VST4-R-0625-R313 (BALL)	Latuma	C	406241
	5/8	1 5/8	3 1/2	4	SQ		VST4-SP-0625-SQ	Latuma	A	496201
	5/8	1 5/8	3 1/2	4	0.030		VST4-SP-0625-R030	Latuma	A	496211
	5/8	1 5/8	3 1/2	4	0.060		VST4-SP-0625-R060	Latuma	C	496221
	5/8	1 5/8	3 1/2	4	0.125		VST4-SP-0625-R125	Latuma	C	496231
	5/8	1 5/8	3 1/2	4	BALL		VST4-SP-0625-R313 (BALL)	Latuma	C	496241
	5/8	2	4	4	SQ		VST4-M-0625-SQ	Latuma	A	406301
	5/8	2	4	4	0.030		VST4-M-0625-R030	Latuma	A	406311

SERIES: VST4

4 Flute, Variable Pitch, Steel/Stainless Steel/Hi-Temp Alloys/Cast Iron, Roughing & Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	LENGTH BELOW SHANK (LBS)	DESCRIPTION	COATING	STOCK CODE	EDP#
5/8"	5/8	2	4	4	0.060		VST4-M-0625-R060	Latuma	A	406321
	5/8	2	4	4	0.125		VST4-M-0625-R125	Latuma	A	406331
	5/8	2	4	4	BALL		VST4-M-0625-R313 (BALL)	Latuma	A	406341
	5/8	2 1/2	5	4	SQ		VST4-L-0625-SQ	Latuma	A	406401
	5/8	2 1/2	5	4	0.030		VST4-L-0625-R030	Latuma	A	406411
	5/8	2 1/2	5	4	0.060		VST4-L-0625-R060	Latuma	A	406421
	5/8	2 1/2	5	4	0.125		VST4-L-0625-R125	Latuma	A	406431
	5/8	2 1/2	5	4	BALL		VST4-L-0625-R313 (BALL)	Latuma	A	406441
	5/8	1	5	4	SQ	2 1/2	VST4-RN-M-0625-SQ	Latuma	A	406801
	5/8	1	5	4	0.030	2 1/2	VST4-RN-M-0625-R030	Latuma	A	406811
	5/8	1	5	4	0.060	2 1/2	VST4-RN-M-0625-R060	Latuma	A	406821
	5/8	1	5	4	0.125	2 1/2	VST4-RN-M-0625-R125	Latuma	C	406831
	5/8	1	5	4	BALL	2 1/2	VST4-RN-M-0625-R313 (BALL)	Latuma	A	406841
3/4"	3/4	1	3	4	SQ		VST4-S-0750-SQ	Latuma	A	407001
	3/4	1	3	4	0.030		VST4-S-0750-R030	Latuma	A	407011
	3/4	1	3	4	0.060		VST4-S-0750-R060	Latuma	C	407021
	3/4	1	3	4	0.125		VST4-S-0750-R125	Latuma	C	407031
	3/4	1	3	4	BALL		VST4-S-0750-R375 (BALL)	Latuma	C	407041
	3/4	1 1/2	4	4	SQ		VST4-SR-0750-SQ	Latuma	A	407101
	3/4	1 1/2	4	4	0.030		VST4-SR-0750-R030	Latuma	A	407111
	3/4	1 1/2	4	4	0.060		VST4-SR-0750-R060	Latuma	A	407121
	3/4	1 1/2	4	4	0.125		VST4-SR-0750-R125	Latuma	A	407131
	3/4	1 1/2	4	4	BALL		VST4-SR-0750-R375 (BALL)	Latuma	A	407141
	3/4	1 5/8	4	4	SQ		VST4-SP-0750-SQ	Latuma	A	497101
	3/4	1 5/8	4	4	0.030		VST4-SP-0750-R030	Latuma	A	497111
	3/4	1 5/8	4	4	0.060		VST4-SP-0750-R060	Latuma	C	497121
	3/4	1 5/8	4	4	0.125		VST4-SP-0750-R125	Latuma	C	497131
	3/4	1 5/8	4	4	BALL		VST4-SP-0750-R375 (BALL)	Latuma	C	497141
	3/4	2	5	4	SQ		VST4-R-0750-SQ	Latuma	A	407201
	3/4	2	5	4	0.030		VST4-R-0750-R030	Latuma	A	407211
	3/4	2	5	4	0.060		VST4-R-0750-R060	Latuma	A	407221
	3/4	2	5	4	0.125		VST4-R-0750-R125	Latuma	A	407231
	3/4	2	5	4	BALL		VST4-R-0750-R375 (BALL)	Latuma	A	407241
	3/4	2 1/2	5	4	SQ		VST4-M-0750-SQ	Latuma	A	407301
	3/4	2 1/2	5	4	0.030		VST4-M-0750-R030	Latuma	A	407311
	3/4	2 1/2	5	4	0.060		VST4-M-0750-R060	Latuma	C	407321
	3/4	2 1/2	5	4	0.125		VST4-M-0750-R125	Latuma	C	407331
	3/4	2 1/2	5	4	BALL		VST4-M-0750-R375 (BALL)	Latuma	A	407341
	3/4	3	6	4	SQ		VST4-L-0750-SQ	Latuma	A	407401
	3/4	3	6	4	0.030		VST4-L-0750-R030	Latuma	A	407411
	3/4	3	6	4	0.060		VST4-L-0750-R060	Latuma	A	407421
	3/4	3	6	4	0.125		VST4-L-0750-R125	Latuma	A	407431
	3/4	3	6	4	BALL		VST4-L-0750-R375 (BALL)	Latuma	A	407441
	3/4	1 1/8	4	4	SQ	2	VST4-RN-R-0750-SQ	Latuma	A	407701
	3/4	1 1/8	4	4	0.030	2	VST4-RN-R-0750-R030	Latuma	A	407711
	3/4	1 1/8	4	4	0.060	2	VST4-RN-R-0750-R060	Latuma	A	407721
	3/4	1 1/8	4	4	0.125	2	VST4-RN-R-0750-R125	Latuma	C	407731
	3/4	1 1/8	4	4	BALL	2	VST4-RN-R-0750-R375 (BALL)	Latuma	A	407741
	3/4	1 1/8	6	4	SQ	3	VST4-RN-M-0750-SQ	Latuma	A	407801
	3/4	1 1/8	6	4	0.030	3	VST4-RN-M-0750-R030	Latuma	A	407811
	3/4	1 1/8	6	4	0.060	3	VST4-RN-M-0750-R060	Latuma	C	407821
	3/4	1 1/8	6	4	0.125	3	VST4-RN-M-0750-R125	Latuma	C	407831
	3/4	1 1/8	6	4	BALL	3	VST4-RN-M-0750-R375 (BALL)	Latuma	A	407841
1"	1	1 3/4	4	4	SQ		VST4-SR-1000-SQ	Latuma	A	408101
	1	1 3/4	4	4	0.030		VST4-SR-1000-R030	Latuma	A	408111
	1	1 3/4	4	4	0.060		VST4-SR-1000-R060	Latuma	A	408121
	1	1 3/4	4	4	0.125		VST4-SR-1000-R125	Latuma	A	408131
	1	1 3/4	4	4	BALL		VST4-SR-1000-R500 (BALL)	Latuma	A	408141

SERIES: VST4

4 Flute, Variable Pitch, Steel/Stainless Steel/Hi-Temp Alloys/Cast Iron, Roughing & Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	LENGTH BELOW SHANK (LBS)	DESCRIPTION	COATING	STOCK CODE	EDP#
1"	1	2 1/2	5	4	SQ		VST4-R-1000-SQ	Latuma	A	408201
	1	2 1/2	5	4	0.030		VST4-R-1000-R030	Latuma	A	408211
	1	2 1/2	5	4	0.060		VST4-R-1000-R060	Latuma	C	408221
	1	2 1/2	5	4	0.125		VST4-R-1000-R125	Latuma	C	408231
	1	2 1/2	5	4	BALL		VST4-R-1000-R500 (BALL)	Latuma	A	408241
	1	3	6	4	SQ		VST4-M-1000-SQ	Latuma	A	408301
	1	3	6	4	0.030		VST4-M-1000-R030	Latuma	A	408311
	1	3	6	4	0.060		VST4-M-1000-R060	Latuma	A	408321
	1	3	6	4	0.125		VST4-M-1000-R125	Latuma	C	408331
	1	3	6	4	BALL		VST4-M-1000-R500 (BALL)	Latuma	A	408341
	1	3 1/2	6	4	SQ		VST4-L-1000-SQ	Latuma	A	408401
	1	3 1/2	6	4	0.030		VST4-L-1000-R030	Latuma	A	408411
	1	3 1/2	6	4	0.060		VST4-L-1000-R060	Latuma	C	408421
	1	3 1/2	6	4	0.125		VST4-L-1000-R125	Latuma	C	408431
	1	3 1/2	6	4	BALL		VST4-L-1000-R500 (BALL)	Latuma	C	408441
	1	1 1/2	6	4	SQ	2 1/2	VST4-RN-R-1000-SQ	Latuma	A	408701
	1	1 1/2	6	4	0.030	2 1/2	VST4-RN-R-1000-R030	Latuma	A	408711
	1	1 1/2	6	4	0.060	2 1/2	VST4-RN-R-1000-R060	Latuma	C	408721
	1	1 1/2	6	4	0.125	2 1/2	VST4-RN-R-1000-R125	Latuma	C	408731
	1	1 1/2	6	4	BALL	2 1/2	VST4-RN-R-1000-R500 (BALL)	Latuma	A	408741
	1	1 1/2	6	4	SQ	3 1/2	VST4-RN-M-1000-SQ	Latuma	A	408801
	1	1 1/2	6	4	0.030	3 1/2	VST4-RN-M-1000-R030	Latuma	A	408811
	1	1 1/2	6	4	0.060	3 1/2	VST4-RN-M-1000-R060	Latuma	C	408821
	1	1 1/2	6	4	0.125	3 1/2	VST4-RN-M-1000-R125	Latuma	C	408831
	1	1 1/2	6	4	BALL	3 1/2	VST4-RN-M-1000-R500 (BALL)	Latuma	A	408841

Stock Code Key:

- (A) Factory Stock Item
- (B) Limited Stock (Ships in 3 - 5 Working Days)
- (C) Limited Stock (Ships in 2 Weeks)

Ferrous VST5 Series



SERIES: VST5

5 Flute, Variable Pitch, Steel/Stainless/Hi-Temp Alloys/Cast Iron/Hardened Steel, Light Roughing & Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	LENGTH BELOW SHANK (LBS)	DESCRIPTION	COATING	STOCK CODE	EDP#
1/8"	1/8	1/4	1 1/2	5	SQ		VST5-S-0125-SQ	Alcrona Pro	A	510001
	1/8	1/4	1 1/2	5	0.015		VST5-S-0125-R015	Alcrona Pro	C	510011
	1/8	1/4	1 1/2	5	0.063		VST5-S-0125-R063 (BALL)	Alcrona Pro	C	510041
	1/8	3/8	2	5	SQ		VST5-SR-0125-SQ	Alcrona Pro	A	510101
	1/8	3/8	2	5	0.015		VST5-SR-0125-R015	Alcrona Pro	C	510111
	1/8	3/8	2	5	0.063		VST5-SR-0125-R063 (BALL)	Alcrona Pro	C	510141
	1/8	1/2	2 1/2	5	SQ		VST5-R-0125-SQ	Alcrona Pro	A	510201
	1/8	1/2	2 1/2	5	0.015		VST5-R-0125-R015	Alcrona Pro	C	510211
	1/8	1/2	2 1/2	5	0.063		VST5-R-0125-R063 (BALL)	Alcrona Pro	C	510241
3/16"	3/16	5/16	2	5	SQ		VST5-S-0187-SQ	Alcrona Pro	A	500001
	3/16	5/16	2	5	0.015		VST5-S-0187-R015	Alcrona Pro	C	500011
	3/16	5/16	2	5	0.094		VST5-S-0187-R094 (BALL)	Alcrona Pro	C	500041
	3/16	7/16	2	5	SQ		VST5-SR-0187-SQ	Alcrona Pro	A	500101
	3/16	7/16	2	5	0.015		VST5-SR-0187-R015	Alcrona Pro	C	500111
	3/16	7/16	2	5	0.094		VST5-SR-0187-R094 (BALL)	Alcrona Pro	C	500141
	3/16	9/16	2 1/2	5	SQ		VST5-R-0187-SQ	Alcrona Pro	A	500201
	3/16	9/16	2 1/2	5	0.015		VST5-R-0187-R015	Alcrona Pro	C	500211
	3/16	9/16	2 1/2	5	0.094		VST5-R-0187-R094 (BALL)	Alcrona Pro	C	500241
1/4"	1/4	3/8	2	5	SQ		VST5-S-0250-SQ	Alcrona Pro	A	501001
	1/4	3/8	2	5	0.015		VST5-S-0250-R015	Alcrona Pro	A	501011
	1/4	3/8	2	5	0.030		VST5-S-0250-R030	Alcrona Pro	A	501021
	1/4	3/8	2	5	0.060		VST5-S-0250-R060	Alcrona Pro	A	501031
	1/4	3/8	2	5	BALL		VST5-S-0250-R125 (BALL)	Alcrona Pro	A	501041
	1/4	1/2	2 1/2	5	SQ		VST5-SR-0250-SQ	Alcrona Pro	A	501101
	1/4	1/2	2 1/2	5	0.015		VST5-SR-0250-R015	Alcrona Pro	A	501111
	1/4	1/2	2 1/2	5	0.030		VST5-SR-0250-R030	Alcrona Pro	A	501121
	1/4	1/2	2 1/2	5	0.060		VST5-SR-0250-R060	Alcrona Pro	A	501131
	1/4	1/2	2 1/2	5	BALL		VST5-SR-0250-R125 (BALL)	Alcrona Pro	A	501141
	1/4	3/4	2 1/2	5	SQ		VST5-R-0250-SQ	Alcrona Pro	A	501201
	1/4	3/4	2 1/2	5	0.015		VST5-R-0250-R015	Alcrona Pro	A	501211
	1/4	3/4	2 1/2	5	0.030		VST5-R-0250-R030	Alcrona Pro	A	501221
	1/4	3/4	2 1/2	5	0.060		VST5-R-0250-R060	Alcrona Pro	A	501231
	1/4	3/4	2 1/2	5	BALL		VST5-R-0250-R125 (BALL)	Alcrona Pro	A	501241
	1/4	1 1/4	3	5	SQ		VST5-M-0250-SQ	Alcrona Pro	A	501301
	1/4	1 1/4	3	5	0.015		VST5-M-0250-R015	Alcrona Pro	C	501311
	1/4	1 1/4	3	5	0.030		VST5-M-0250-R030	Alcrona Pro	C	501321
	1/4	1 1/4	3	5	0.060		VST5-M-0250-R060	Alcrona Pro	C	501331
	1/4	1 1/4	3	5	BALL		VST5-M-0250-R125 (BALL)	Alcrona Pro	C	501341
	1/4	3/8	4	5	SQ	1 1/4	VST5-RN-R-0250-SQ	Alcrona Pro	A	501701
	1/4	3/8	4	5	0.015	1 1/4	VST5-RN-R-0250-R015	Alcrona Pro	C	501711
	1/4	3/8	4	5	0.030	1 1/4	VST5-RN-R-0250-R030	Alcrona Pro	C	501721
	1/4	3/8	4	5	0.060	1 1/4	VST5-RN-R-0250-R060	Alcrona Pro	A	501731
	1/4	3/8	4	5	BALL	1 1/4	VST5-RN-R-0250-R125 (BALL)	Alcrona Pro	A	501741
5/16"	5/16	1/2	2	5	SQ		VST5-SR-0312-SQ	Alcrona Pro	A	502101
	5/16	1/2	2	5	0.015		VST5-SR-0312-R015	Alcrona Pro	C	502111
	5/16	1/2	2	5	0.030		VST5-SR-0312-R030	Alcrona Pro	C	502121
	5/16	1/2	2	5	BALL		VST5-SR-0312-R157 (BALL)	Alcrona Pro	C	502141
	5/16	3/4	2 1/2	5	SQ		VST5-R-0312-SQ	Alcrona Pro	A	502201
	5/16	3/4	2 1/2	5	0.015		VST5-R-0312-R015	Alcrona Pro	C	502211
	5/16	3/4	2 1/2	5	0.030		VST5-R-0312-R030	Alcrona Pro	C	502221
	5/16	3/4	2 1/2	5	BALL		VST5-R-0312-R157 (BALL)	Alcrona Pro	C	502241
	5/16	1 1/4	3	5	SQ		VST5-M-0312-SQ	Alcrona Pro	A	502301
	5/16	1 1/4	3	5	0.015		VST5-M-0312-R015	Alcrona Pro	C	502311
	5/16	1 1/4	3	5	0.030		VST5-M-0312-R030	Alcrona Pro	C	502321
	5/16	1 1/4	3	5	BALL		VST5-M-0312-R157 (BALL)	Alcrona Pro	C	502341

SERIES: VST5

5 Flute, Variable Pitch, Steel/Stainless/Hi-Temp Alloys/Cast Iron/Hardened Steel, Light Roughing & Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	LENGTH BELOW SHANK (LBS)	DESCRIPTION	COATING	STOCK CODE	EDP#
3/8"	3/8	1/2	2	5	SQ		VST5-S-0375-SQ	Alcrona Pro	A	503001
	3/8	1/2	2	5	0		VST5-S-0375-R015	Alcrona Pro	A	503011
	3/8	1/2	2	5	0.03		VST5-S-0375-R030	Alcrona Pro	A	503021
	3/8	1/2	2	5	0.06		VST5-S-0375-R060	Alcrona Pro	A	503031
	3/8	1/2	2	5	BALL		VST5-S-0375-R188 (BALL)	Alcrona Pro	A	503041
	3/8	3/4	2 1/2	5	SQ		VST5-SR-0375-SQ	Alcrona Pro	A	503101
	3/8	3/4	2 1/2	5	0.015		VST5-SR-0375-R015	Alcrona Pro	A	503111
	3/8	3/4	2 1/2	5	0.030		VST5-SR-0375-R030	Alcrona Pro	A	503121
	3/8	3/4	2 1/2	5	0.060		VST5-SR-0375-R060	Alcrona Pro	A	503131
	3/8	3/4	2 1/2	5	BALL		VST5-SR-0375-R188 (BALL)	Alcrona Pro	A	503141
	3/8	7/8	3	5	SQ		VST5-SP-0375-SQ	Alcrona Pro	A	593201
	3/8	7/8	3	5	0.015		VST5-SP-0375-R015	Alcrona Pro	C	593211
	3/8	7/8	3	5	0.030		VST5-SP-0375-R030	Alcrona Pro	C	593221
	3/8	7/8	3	5	0.060		VST5-SP-0375-R060	Alcrona Pro	C	593231
	3/8	7/8	3	5	BALL		VST5-SP-0375-R188 (BALL)	Alcrona Pro	C	593241
	3/8	1	3	5	SQ		VST5-R-0375-SQ	Alcrona Pro	A	503201
	3/8	1	3	5	0.015		VST5-R-0375-R015	Alcrona Pro	A	503211
	3/8	1	3	5	0.030		VST5-R-0375-R030	Alcrona Pro	A	503221
	3/8	1	3	5	0.060		VST5-R-0375-R060	Alcrona Pro	A	503231
	3/8	1	3	5	BALL		VST5-R-0375-R188 (BALL)	Alcrona Pro	A	503241
	3/8	1 1/4	3	5	SQ		VST5-M-0375-SQ	Alcrona Pro	A	503301
	3/8	1 1/4	3	5	0.015		VST5-M-0375-R015	Alcrona Pro	C	503311
	3/8	1 1/4	3	5	0.030		VST5-M-0375-R030	Alcrona Pro	C	503321
	3/8	1 1/4	3	5	0.060		VST5-M-0375-R060	Alcrona Pro	C	503331
	3/8	1 1/4	3	5	BALL		VST5-M-0375-R188 (BALL)	Alcrona Pro	C	503341
	3/8	1 1/2	4	5	SQ		VST5-L-0375-SQ	Alcrona Pro	A	503401
	3/8	1 1/2	4	5	0.015		VST5-L-0375-R015	Alcrona Pro	A	503411
	3/8	1 1/2	4	5	0.030		VST5-L-0375-R030	Alcrona Pro	C	503421
	3/8	1 1/2	4	5	0.060		VST5-L-0375-R060	Alcrona Pro	A	503431
	3/8	1 1/2	4	5	BALL		VST5-L-0375-R188 (BALL)	Alcrona Pro	A	503441
	3/8	5/8	4	5	SQ	2	VST5-RN-R-0375-SQ	Alcrona Pro	A	503701
	3/8	5/8	4	5	0.015	2	VST5-RN-R-0375-R015	Alcrona Pro	A	503711
	3/8	5/8	4	5	0.030	2	VST5-RN-R-0375-R030	Alcrona Pro	A	503721
	3/8	5/8	4	5	0.060	2	VST5-RN-R-0375-R060	Alcrona Pro	A	503731
	3/8	5/8	4	5	BALL	2	VST5-RN-R-0375-R188 (BALL)	Alcrona Pro	A	503741
1/2"	1/2	5/8	2 1/2	5	SQ		VST5-S-0500-SQ	Alcrona Pro	A	505001
	1/2	5/8	2 1/2	5	0.015		VST5-S-0500-R015	Alcrona Pro	A	505011
	1/2	5/8	2 1/2	5	0.030		VST5-S-0500-R030	Alcrona Pro	A	505021
	1/2	5/8	2 1/2	5	0.060		VST5-S-0500-R060	Alcrona Pro	A	505031
	1/2	5/8	2 1/2	5	0.125		VST5-S-0500-R125	Alcrona Pro	A	505041
	1/2	5/8	2 1/2	5	BALL		VST5-S-0500-R250 (BALL)	Alcrona Pro	A	505051
	1/2	1	3	5	SQ		VST5-SR-0500-SQ	Alcrona Pro	A	505101
	1/2	1	3	5	0.015		VST5-SR-0500-R015	Alcrona Pro	A	505111
	1/2	1	3	5	0.030		VST5-SR-0500-R030	Alcrona Pro	A	505121
	1/2	1	3	5	0.060		VST5-SR-0500-R060	Alcrona Pro	A	505131
	1/2	1	3	5	0.125		VST5-SR-0500-R125	Alcrona Pro	A	505141
	1/2	1	3	5	BALL		VST5-SR-0500-R250 (BALL)	Alcrona Pro	A	505151
	1/2	1 1/4	3	5	SQ		VST5-R-0500-SQ	Alcrona Pro	A	505201
	1/2	1 1/4	3	5	0.015		VST5-R-0500-R015	Alcrona Pro	A	505211
	1/2	1 1/4	3	5	0.030		VST5-R-0500-R030	Alcrona Pro	A	505221
	1/2	1 1/4	3	5	0.060		VST5-R-0500-R060	Alcrona Pro	A	505231
	1/2	1 1/4	3	5	0.125		VST5-R-0500-R125	Alcrona Pro	A	505241
	1/2	1 1/4	3	5	BALL		VST5-R-0500-R250 (BALL)	Alcrona Pro	A	505251
	1/2	1 1/2	4	5	SQ		VST5-M-0500-SQ	Alcrona Pro	A	505301
	1/2	1 1/2	4	5	0.015		VST5-M-0500-R015	Alcrona Pro	A	505311
	1/2	1 1/2	4	5	0.030		VST5-M-0500-R030	Alcrona Pro	A	505321
	1/2	1 1/2	4	5	0.060		VST5-M-0500-R060	Alcrona Pro	A	505331
	1/2	1 1/2	4	5	0.125		VST5-M-0500-R125	Alcrona Pro	A	505341
	1/2	1 1/2	4	5	BALL		VST5-M-0500-R250 (BALL)	Alcrona Pro	A	505351

SERIES: VST5

5 Flute, Variable Pitch, Steel/Stainless/Hi-Temp Alloys/Cast Iron/Hardened Steel, Light Roughing & Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	LENGTH BELOW SHANK (LBS)	DESCRIPTION	COATING	STOCK CODE	EDP#
1/2"	1/2	1 5/8	4	5	SQ		VST5-SP-0500-SQ	Alcrona Pro	A	595301
	1/2	1 5/8	4	5	0.015		VST5-SP-0500-R015	Alcrona Pro	A	595311
	1/2	1 5/8	4	5	0.030		VST5-SP-0500-R030	Alcrona Pro	A	595321
	1/2	1 5/8	4	5	0.060		VST5-SP-0500-R060	Alcrona Pro	A	595331
	1/2	1 5/8	4	5	0.125		VST5-SP-0500-R125	Alcrona Pro	C	595341
	1/2	1 5/8	4	5	BALL		VST5-SP-0500-R250 (BALL)	Alcrona Pro	C	595351
	1/2	2	4	5	SQ		VST5-L-0500-SQ	Alcrona Pro	A	505401
	1/2	2	4	5	0.015		VST5-L-0500-R015	Alcrona Pro	A	505411
	1/2	2	4	5	0.030		VST5-L-0500-R030	Alcrona Pro	A	505421
	1/2	2	4	5	0.060		VST5-L-0500-R060	Alcrona Pro	A	505431
	1/2	2	4	5	0.125		VST5-L-0500-R125	Alcrona Pro	A	505441
	1/2	2	4	5	BALL		VST5-L-0500-R250 (BALL)	Alcrona Pro	A	505451
	1/2	3/4	3	5	SQ	1 1/4	VST5-RN-S-0500-SQ	Alcrona Pro	A	505601
	1/2	3/4	3	5	0.015	1 1/4	VST5-RN-S-0500-R015	Alcrona Pro	C	505611
	1/2	3/4	3	5	0.030	1 1/4	VST5-RN-S-0500-R030	Alcrona Pro	A	505621
	1/2	3/4	3	5	0.060	1 1/4	VST5-RN-S-0500-R060	Alcrona Pro	C	505631
	1/2	3/4	3	5	0.125	1 1/4	VST5-RN-S-0500-R125	Alcrona Pro	C	505641
	1/2	3/4	3	5	BALL	1 1/4	VST5-RN-S-0500-R250 (BALL)	Alcrona Pro	C	505651
	1/2	3/4	4	5	SQ	2	VST5-RN-R-0500-SQ	Alcrona Pro	A	505701
	1/2	3/4	4	5	0.015	2	VST5-RN-R-0500-R015	Alcrona Pro	C	505711
	1/2	3/4	4	5	0.030	2	VST5-RN-R-0500-R030	Alcrona Pro	A	505721
	1/2	3/4	4	5	0.060	2	VST5-RN-R-0500-R060	Alcrona Pro	A	505731
	1/2	3/4	4	5	0.125	2	VST5-RN-R-0500-R125	Alcrona Pro	C	505741
	1/2	3/4	4	5	BALL	2	VST5-RN-R-0500-R250 (BALL)	Alcrona Pro	A	505751
	1/2	3/4	5	5	SQ	2 1/2	VST5-RN-M-0500-SQ	Alcrona Pro	A	505801
	1/2	3/4	5	5	0.015	2 1/2	VST5-RN-M-0500-R015	Alcrona Pro	A	505811
	1/2	3/4	5	5	0.030	2 1/2	VST5-RN-M-0500-R030	Alcrona Pro	A	505821
	1/2	3/4	5	5	0.060	2 1/2	VST5-RN-M-0500-R060	Alcrona Pro	C	505831
	1/2	3/4	5	5	0.125	2 1/2	VST5-RN-M-0500-R125	Alcrona Pro	C	505841
	1/2	3/4	5	5	BALL	2 1/2	VST5-RN-M-0500-R250 (BALL)	Alcrona Pro	C	505851
	1/2	3/4	6	5	SQ	3 1/2	VST5-RN-L-0500-SQ	Alcrona Pro	A	505901
	1/2	3/4	6	5	0.015	3 1/2	VST5-RN-L-0500-R015	Alcrona Pro	C	505911
	1/2	3/4	6	5	0.030	3 1/2	VST5-RN-L-0500-R030	Alcrona Pro	A	505921
	1/2	3/4	6	5	0.060	3 1/2	VST5-RN-L-0500-R060	Alcrona Pro	C	505931
	1/2	3/4	6	5	0.125	3 1/2	VST5-RN-L-0500-R125	Alcrona Pro	C	505941
	1/2	3/4	6	5	BALL	3 1/2	VST5-RN-L-0500-R250 (BALL)	Alcrona Pro	C	505951
5/8"	5/8	3/4	3	5	SQ		VST5-S-0625-SQ	Alcrona Pro	A	506001
	5/8	3/4	3	5	0.030		VST5-S-0625-R030	Alcrona Pro	A	506011
	5/8	3/4	3	5	0.060		VST5-S-0625-R060	Alcrona Pro	C	506021
	5/8	3/4	3	5	0.125		VST5-S-0625-R125	Alcrona Pro	C	506031
	5/8	3/4	3	5	BALL		VST5-S-0625-R313 (BALL)	Alcrona Pro	C	506041
	5/8	1 1/4	3 1/2	5	SQ		VST5-SR-0625-SQ	Alcrona Pro	A	506101
	5/8	1 1/4	3 1/2	5	0.030		VST5-SR-0625-R030	Alcrona Pro	A	506111
	5/8	1 1/4	3 1/2	5	0.060		VST5-SR-0625-R060	Alcrona Pro	A	506121
	5/8	1 1/4	3 1/2	5	0.125		VST5-SR-0625-R125	Alcrona Pro	A	506131
	5/8	1 1/4	3 1/2	5	BALL		VST5-SR-0625-R313 (BALL)	Alcrona Pro	C	506141
	5/8	1 1/2	3 1/2	5	SQ		VST5-R-0625-SQ	Alcrona Pro	A	506201
	5/8	1 1/2	3 1/2	5	0.030		VST5-R-0625-R030	Alcrona Pro	A	506211
	5/8	1 1/2	3 1/2	5	0.060		VST5-R-0625-R060	Alcrona Pro	A	506221
	5/8	1 1/2	3 1/2	5	0.125		VST5-R-0625-R125	Alcrona Pro	A	506231
	5/8	1 1/2	3 1/2	5	BALL		VST5-R-0625-R313 (BALL)	Alcrona Pro	C	506241
	5/8	1 5/8	3 1/2	5	SQ		VST5-SP-0625-SQ	Alcrona Pro	A	596201
	5/8	1 5/8	3 1/2	5	0.030		VST5-SP-0625-R030	Alcrona Pro	A	596211
	5/8	1 5/8	3 1/2	5	0.060		VST5-SP-0625-R060	Alcrona Pro	C	596221
	5/8	1 5/8	3 1/2	5	0.125		VST5-SP-0625-R125	Alcrona Pro	C	596231
	5/8	1 5/8	3 1/2	5	BALL		VST5-SP-0625-R313 (BALL)	Alcrona Pro	C	596241
	5/8	2	4	5	SQ		VST5-M-0625-SQ	Alcrona Pro	A	506301
	5/8	2	4	5	0.030		VST5-M-0625-R030	Alcrona Pro	A	506311

SERIES: VST5

5 Flute, Variable Pitch, Steel/Stainless/Hi-Temp Alloys/Cast Iron/Hardened Steel, Light Roughing & Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	LENGTH BELOW SHANK (LBS)	DESCRIPTION	COATING	STOCK CODE	EDP#
5/8"	5/8	2	4	5	0.060		VST5-M-0625-R060	Alcrona Pro	A	506321
	5/8	2	4	5	0.125		VST5-M-0625-R125	Alcrona Pro	A	506331
	5/8	2	4	5	BALL		VST5-M-0625-R313 (BALL)	Alcrona Pro	C	506341
	5/8	2 1/2	5	5	SQ		VST5-L-0625-SQ	Alcrona Pro	A	506401
	5/8	2 1/2	5	5	0.030		VST5-L-0625-R030	Alcrona Pro	A	506411
	5/8	2 1/2	5	5	0.060		VST5-L-0625-R060	Alcrona Pro	C	506421
	5/8	2 1/2	5	5	0.125		VST5-L-0625-R125	Alcrona Pro	A	506431
	5/8	2 1/2	5	5	BALL		VST5-L-0625-R313 (BALL)	Alcrona Pro	C	506441
	5/8	1	5	5	SQ	2 1/2	VST5-RN-M-0625-SQ	Alcrona Pro	A	506801
	5/8	1	5	5	0.030	2 1/2	VST5-RN-M-0625-R030	Alcrona Pro	A	506811
	5/8	1	5	5	0.060	2 1/2	VST5-RN-M-0625-R060	Alcrona Pro	A	506821
	5/8	1	5	5	0.125	2 1/2	VST5-RN-M-0625-R125	Alcrona Pro	A	506831
	5/8	1	5	5	BALL	2 1/2	VST5-RN-M-0625-R313 (BALL)	Alcrona Pro	A	506841
3/4"	3/4	1	3	5	SQ		VST5-S-0750-SQ	Alcrona Pro	A	507001
	3/4	1	3	5	0.030		VST5-S-0750-R030	Alcrona Pro	A	507011
	3/4	1	3	5	0.060		VST5-S-0750-R060	Alcrona Pro	C	507021
	3/4	1	3	5	0.125		VST5-S-0750-R125	Alcrona Pro	C	507031
	3/4	1	3	5	BALL		VST5-S-0750-R375 (BALL)	Alcrona Pro	C	507041
	3/4	1 1/2	4	5	SQ		VST5-SR-0750-SQ	Alcrona Pro	A	507101
	3/4	1 1/2	4	5	0.030		VST5-SR-0750-R030	Alcrona Pro	A	507111
	3/4	1 1/2	4	5	0.060		VST5-SR-0750-R060	Alcrona Pro	A	507121
	3/4	1 1/2	4	5	0.125		VST5-SR-0750-R125	Alcrona Pro	A	507131
	3/4	1 1/2	4	5	BALL		VST5-SR-0750-R375 (BALL)	Alcrona Pro	A	507141
	3/4	1 5/8	4	5	SQ		VST5-SP-0750-SQ	Alcrona Pro	A	597101
	3/4	1 5/8	4	5	0.030		VST5-SP-0750-R030	Alcrona Pro	A	597111
	3/4	1 5/8	4	5	0.060		VST5-SP-0750-R060	Alcrona Pro	C	597121
	3/4	1 5/8	4	5	0.125		VST5-SP-0750-R125	Alcrona Pro	C	597131
	3/4	1 5/8	4	5	BALL		VST5-SP-0750-R375 (BALL)	Alcrona Pro	C	597141
	3/4	2	5	5	SQ		VST5-R-0750-SQ	Alcrona Pro	A	507201
	3/4	2	5	5	0.030		VST5-R-0750-R030	Alcrona Pro	A	507211
	3/4	2	5	5	0.060		VST5-R-0750-R060	Alcrona Pro	A	507221
	3/4	2	5	5	0.125		VST5-R-0750-R125	Alcrona Pro	A	507231
	3/4	2	5	5	BALL		VST5-R-0750-R375 (BALL)	Alcrona Pro	A	507241
	3/4	2 1/2	5	5	SQ		VST5-M-0750-SQ	Alcrona Pro	A	507301
	3/4	2 1/2	5	5	0.030		VST5-M-0750-R030	Alcrona Pro	A	507311
	3/4	2 1/2	5	5	0.060		VST5-M-0750-R060	Alcrona Pro	C	507321
	3/4	2 1/2	5	5	0.125		VST5-M-0750-R125	Alcrona Pro	C	507331
	3/4	2 1/2	5	5	BALL		VST5-M-0750-R375 (BALL)	Alcrona Pro	C	507341
	3/4	3	6	5	SQ		VST5-L-0750-SQ	Alcrona Pro	A	507401
	3/4	3	6	5	0.030		VST5-L-0750-R030	Alcrona Pro	A	507411
	3/4	3	6	5	0.060		VST5-L-0750-R060	Alcrona Pro	A	507421
	3/4	3	6	5	0.125		VST5-L-0750-R125	Alcrona Pro	A	507431
	3/4	3	6	5	BALL		VST5-L-0750-R375 (BALL)	Alcrona Pro	A	507441
	3/4	1 1/8	4	5	SQ	2	VST5-RN-R-0750-SQ	Alcrona Pro	A	507701
	3/4	1 1/8	4	5	0.030	2	VST5-RN-R-0750-R030	Alcrona Pro	A	507711
	3/4	1 1/8	4	5	0.060	2	VST5-RN-R-0750-R060	Alcrona Pro	C	507721
	3/4	1 1/8	4	5	0.125	2	VST5-RN-R-0750-R125	Alcrona Pro	A	507731
	3/4	1 1/8	4	5	BALL	2	VST5-RN-R-0750-R375 (BALL)	Alcrona Pro	A	507741
	3/4	1 1/8	6	5	SQ	3	VST5-RN-M-0750-SQ	Alcrona Pro	A	507801
	3/4	1 1/8	6	5	0.030	3	VST5-RN-M-0750-R030	Alcrona Pro	A	507811
	3/4	1 1/8	6	5	0.060	3	VST5-RN-M-0750-R060	Alcrona Pro	A	507821
	3/4	1 1/8	6	5	0.125	3	VST5-RN-M-0750-R125	Alcrona Pro	C	507831
	3/4	1 1/8	6	5	BALL	3	VST5-RN-M-0750-R375 (BALL)	Alcrona Pro	A	507841
1"	1	1 3/4	4	5	SQ		VST5-SR-1000-SQ	Alcrona Pro	A	508101
	1	1 3/4	4	5	0.030		VST5-SR-1000-R030	Alcrona Pro	A	508111
	1	1 3/4	4	5	0.060		VST5-SR-1000-R060	Alcrona Pro	C	508121
	1	1 3/4	4	5	0.125		VST5-SR-1000-R125	Alcrona Pro	A	508131
	1	1 3/4	4	5	BALL		VST5-SR-1000-R500 (BALL)	Alcrona Pro	A	508141

SERIES: VST5

5 Flute, Variable Pitch, Steel/Stainless/Hi-Temp Alloys/Cast Iron/Hardened Steel, Light Roughing & Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	LENGTH BELOW SHANK (LBS)	DESCRIPTION	COATING	STOCK CODE	EDP#
1"	1	2 1/2	5	5	SQ		VST5-R-1000-SQ	Alcrona Pro	A	508201
	1	2 1/2	5	5	0.030		VST5-R-1000-R030	Alcrona Pro	A	508211
	1	2 1/2	5	5	0.060		VST5-R-1000-R060	Alcrona Pro	A	508221
	1	2 1/2	5	5	0.125		VST5-R-1000-R125	Alcrona Pro	A	508231
	1	2 1/2	5	5	BALL		VST5-R-1000-R500 (BALL)	Alcrona Pro	A	508241
	1	3	6	5	SQ		VST5-M-1000-SQ	Alcrona Pro	A	508301
	1	3	6	5	0.030		VST5-M-1000-R030	Alcrona Pro	A	508311
	1	3	6	5	0.060		VST5-M-1000-R060	Alcrona Pro	C	508321
	1	3	6	5	0.125		VST5-M-1000-R125	Alcrona Pro	C	508331
	1	3	6	5	BALL		VST5-M-1000-R500 (BALL)	Alcrona Pro	A	508341
	1	3 1/2	6	5	SQ		VST5-L-1000-SQ	Alcrona Pro	A	508501
	1	3 1/2	6	5	0.030		VST5-L-1000-R030	Alcrona Pro	A	508411
	1	3 1/2	6	5	0.060		VST5-L-1000-R060	Alcrona Pro	C	508421
	1	3 1/2	6	5	0.125		VST5-L-1000-R125	Alcrona Pro	C	508431
	1	3 1/2	6	5	BALL		VST5-L-1000-R500 (BALL)	Alcrona Pro	C	508441
	1	1 1/2	6	5	SQ	2 1/2	VST5-RN-R-1000-SQ	Alcrona Pro	A	508701
	1	1 1/2	6	5	0.030	2 1/2	VST5-RN-R-1000-R030	Alcrona Pro	A	508711
	1	1 1/2	6	5	0.060	2 1/2	VST5-RN-R-1000-R060	Alcrona Pro	C	508721
	1	1 1/2	6	5	0.125	2 1/2	VST5-RN-R-1000-R125	Alcrona Pro	C	508731
	1	1 1/2	6	5	BALL	2 1/2	VST5-RN-R-1000-R500 (BALL)	Alcrona Pro	A	508741
	1	1 1/2	6	5	SQ	3 1/2	VST5-RN-M-1000-SQ	Alcrona Pro	A	508801
	1	1 1/2	6	5	0.030	3 1/2	VST5-RN-M-1000-R030	Alcrona Pro	A	508811
	1	1 1/2	6	5	0.060	3 1/2	VST5-RN-M-1000-R060	Alcrona Pro	C	508821
	1	1 1/2	6	5	0.125	3 1/2	VST5-RN-M-1000-R125	Alcrona Pro	C	508831
	1	1 1/2	6	5	BALL	3 1/2	VST5-RN-M-1000-R500 (BALL)	Alcrona Pro	A	508841

Stock Code Key:

- (A) Factory Stock Item
- (B) Limited Stock (Ships in 3 - 5 Working Days)
- (C) Limited Stock (Ships in 2 Weeks)

Finishing **FEM5 Series**



SERIES: FEM5

5 Flute, Steel/Stainless Steel/Hi-Temp Alloys/Cast Iron, Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	LENGTH BELOW SHANK (LBS)	DESCRIPTION	COATING	STOCK CODE	EDP#
1/8"	1/8	1/4	1 1/2	5	SQ		FEM5-S-0125-SQ	Latuma	A	540001
	1/8	1/2	2 1/2	5	SQ		FEM5-R-0125-SQ	Latuma	A	540201
3/16"	3/16	5/16	2	5	SQ		FEM5-S-0187-SQ	Latuma	A	550001
	3/16	9/16	2 1/2	5	SQ		FEM5-R-0187-SQ	Latuma	A	550201
1/4"	1/4	3/8	2	5	SQ		FEM5-S-0250-SQ	Latuma	A	551001
	1/4	1/2	2 1/2	5	SQ		FEM5-SR-0250-SQ	Latuma	A	551101
	1/4	3/4	2 1/2	5	SQ		FEM5-R-0250-SQ	Latuma	A	551201
5/16"	5/16	1/2	2	5	SQ		FEM5-SR-0312-SQ	Latuma	A	552101
	5/16	3/4	2 1/2	5	SQ		FEM5-R-0312-SQ	Latuma	A	552201
3/8"	3/8	1/2	2	5	SQ		FEM5-S-0375-SQ	Latuma	A	553001
	3/8	1	2 1/2	5	SQ		FEM5-R-0375-SQ	Latuma	A	553201
	3/8	1 1/4	3	5	SQ		FEM5-M-0375-SQ	Latuma	A	553301
1/2"	1/2	5/8	2 1/2	5	SQ		FEM5-S-0500-SQ	Latuma	A	555001
	1/2	1	3	5	SQ		FEM5-SR-0500-SQ	Latuma	A	555101
	1/2	1 1/4	3	5	SQ		FEM5-R-0500-SQ	Latuma	A	555201
	1/2	1 5/8	4	5	SQ		FEM5-SP-0500-SQ	Latuma	A	545301
	1/2	2	4	5	SQ		FEM5-L-0500-SQ	Latuma	A	555401
5/8"	5/8	3/4	3	5	SQ		FEM5-S-0625-SQ	Latuma	A	556001
	5/8	1 1/4	3 1/2	5	SQ		FEM5-R-0625-SQ	Latuma	A	556101
	5/8	1 5/8	3 1/2	5	SQ		FEM5-SP-0625-SQ	Latuma	A	546201
	5/8	2	4	5	SQ		FEM5-M-0625-SQ	Latuma	A	556301
	5/8	2 1/2	5	5	SQ		FEM5-L-0625-SQ	Latuma	A	556401
3/4"	3/4	1	3	5	SQ		FEM5-S-0750-SQ	Latuma	A	557001
	3/4	1 5/8	4	5	SQ		FEM5-SP-0750-SQ	Latuma	A	547101
	3/4	2	5	5	SQ		FEM5-R-0750-SQ	Latuma	A	557201
	3/4	2 1/2	5	5	SQ		FEM5-M-0750-SQ	Latuma	A	557301

Stock Code Key:

- (A) Factory Stock Item
- (B) Limited Stock (Ships in 3 - 5 Working Days)
- (C) Limited Stock (Ships in 2 Weeks)

Multi Flutes VMF & VMF-CB Series



SERIES: VMF

Multi-Flute, Variable Pitch, Steel/Stainless Steel/Hi-Temp Alloys/Cast Iron/Hardened Steel
High Speed Roughing & Finishing

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	DESCRIPTION	COATING	STOCK CODE	EDP#
3/8"	3/8	3/4	2-1/2	7	SQ	VMF7-SR-0375-SQ	C-Max	A	703101
	3/8	3/4	2-1/2	7	0.015	VMF7-SR-0375-R015	C-Max	A	703111
	3/8	1	3	7	SQ	VMF7-R-0375-SQ	C-Max	A	703201
	3/8	1	3	7	0.015	VMF7-R-0375-R015	C-Max	C	703211
1/2"	1/2	1	3	7	SQ	VMF7-SR-0500-SQ	C-Max	C	705101
	1/2	1	3	7	0.030	VMF7-SR-0500-R030	C-Max	A	705121
	1/2	1 1/4	3	7	SQ	VMF7-R-0500-SQ	C-Max	A	705201
	1/2	1 1/4	3	7	0.030	VMF7-R-0500-R030	C-Max	A	705221
	1/2	1 1/2	4	7	SQ	VMF7-M-0500-SQ	C-Max	C	705301
	1/2	1 1/2	4	7	0.030	VMF7-M-0500-R030	C-Max	A	705321
5/8"	5/8	1 1/4	3 1/2	7	SQ	VMF7-SR-0625-SQ	C-Max	A	706101
	5/8	1 1/4	3 1/2	7	0.030	VMF7-SR-0625-R030	C-Max	A	706111
	5/8	2	4	7	SQ	VMF7-M-0625-SQ	C-Max	C	706301
	5/8	2	4	7	0.030	VMF7-M-0625-R030	C-Max	C	706311
3/4"	3/4	1 1/2	4	7	SQ	VMF7-SR-0750-SQ	C-Max	A	707101
	3/4	1 1/2	4	7	0.030	VMF7-SR-0750-R030	C-Max	A	707111
	3/4	1 1/2	4	9	SQ	VMF9-SR-0750-SQ	C-Max	C	907101
	3/4	1 1/2	4	9	0.030	VMF9-SR-0750-R030	C-Max	A	907111
	3/4	2 1/2	5	7	SQ	VMF7-M-0750-SQ	C-Max	C	707301
	3/4	2 1/2	5	7	0.030	VMF7-M-0750-R030	C-Max	C	707311
	3/4	2 1/2	5	9	SQ	VMF9-M-0750-SQ	C-Max	C	907301
	3/4	2 1/2	5	9	0.030	VMF9-M-0750-R030	C-Max	C	907311
	3/4	3	6	7	SQ	VMF7-L-0750-SQ	C-Max	C	707401
	3/4	3	6	7	0.030	VMF7-L-0750-R030	C-Max	A	707411
	3/4	3	6	9	SQ	VMF9-L-0750-SQ	C-Max	C	907401
	3/4	3	6	9	0.030	VMF9-L-0750-R030	C-Max	A	907411
1"	1	1 3/4	4	7	SQ	VMF7-SR-1000-SQ	C-Max	C	708101
	1	1 3/4	4	7	0.030	VMF7-SR-1000-R030	C-Max	C	708111
	1	1 3/4	4	9	SQ	VMF9-SR-1000-SQ	C-Max	C	908101
	1	1 3/4	4	9	0.030	VMF9-SR-1000-R030	C-Max	C	908111
	1	1 3/4	4	11	SQ	VMF11-SR-1000-SQ	C-Max	C	118101
	1	1 3/4	4	11	0.030	VMF11-SR-1000-R030	C-Max	C	118111
	1	2 1/2	5	7	SQ	VMF7-R-1000-SQ	C-Max	C	708201
	1	2 1/2	5	7	0.030	VMF7-R-1000-R030	C-Max	A	708211
	1	2 1/2	5	9	SQ	VMF9-R-1000-SQ	C-Max	C	908201
	1	2 1/2	5	9	0.030	VMF9-R-1000-R030	C-Max	A	908211
	1	2 1/2	5	11	SQ	VMF11-R-1000-SQ	C-Max	C	118201
	1	2 1/2	5	11	0.030	VMF11-R-1000-R030	C-Max	A	118211
	1	3	6	7	SQ	VMF7-M-1000-SQ	C-Max	C	708301
	1	3	6	7	0.030	VMF7-M-1000-R030	C-Max	C	708311
	1	3	6	9	SQ	VMF9-M-1000-SQ	C-Max	C	908301
	1	3	6	9	0.030	VMF9-M-1000-R030	C-Max	C	908311
	1	3	6	11	SQ	VMF11-M-1000-SQ	C-Max	C	118301
	1	3	6	11	0.030	VMF11-M-1000-R030	C-Max	C	118311

SERIES: VMF-CB

Multi-Flute, Variable Pitch, Steel/Stainless Steel/Hi-Temp Alloys/Cast Iron/Hardened Steel
High Speed Roughing (Staggered Chipbreakers)

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	CORNER CONDITION	DESCRIPTION	COATING	STOCK CODE	EDP#
3/8"	3/8	3/4	2-1/2	7	0.015	VMF7-SR-0375-R015-CB	C-Max	A	703112
	3/8	1	3	7	0.015	VMF7-R-0375-R015-CB	C-Max	C	703212
1/2"	1/2	1	3	7	0.030	VMF7-SR-0500-R030-CB	C-Max	A	705122
	1/2	1 1/4	3	7	0.030	VMF7-R-0500-R030-CB	C-Max	A	705222
	1/2	1 1/2	4	7	0.030	VMF7-M-0500-R030-CB	C-Max	A	705322
5/8"	5/8	1 1/4	3 1/2	7	0.030	VMF7-SR-0625-R030-CB	C-Max	C	706112
	5/8	2	4	7	0.030	VMF7-M-0625-R030-CB	C-Max	C	706312
3/4"	3/4	1 1/2	4	7	0.030	VMF7-SR-0750-R030-CB	C-Max	A	707112
	3/4	1 1/2	4	9	0.030	VMF9-SR-0750-R030-CB	C-Max	A	907112
	3/4	2 1/2	5	7	0.030	VMF7-M-0750-R030-CB	C-Max	C	707312
	3/4	2 1/2	5	9	0.030	VMF9-M-0750-R030-CB	C-Max	C	907312
	3/4	3	6	7	0.030	VMF7-L-0750-R030-CB	C-Max	A	707412
	3/4	3	6	9	0.030	VMF9-L-0750-R030-CB	C-Max	A	907412
1"	1	1 3/4	4	7	0.030	VMF7-SR-1000-R030-CB	C-Max	C	708112
	1	1 3/4	4	9	0.030	VMF9-SR-1000-R030-CB	C-Max	C	908112
	1	1 3/4	4	11	0.030	VMF11-SR-1000-R030-CB	C-Max	C	118112
	1	2 1/2	5	7	0.030	VMF7-R-1000-R030-CB	C-Max	A	708212
	1	2 1/2	5	9	0.030	VMF9-R-1000-R030-CB	C-Max	A	908212
	1	2 1/2	5	11	0.030	VMF11-R-1000-R030-CB	C-Max	A	118212
	1	3	6	7	0.030	VMF7-M-1000-R030-CB	C-Max	C	708312
	1	3	6	9	0.030	VMF9-M-1000-R030-CB	C-Max	C	908312
	1	3	6	11	0.030	VMF11-M-1000-R030-CB	C-Max	C	118312

Stock Code Key:

- (A) Factory Stock Item
- (B) Limited Stock (Ships in 3 - 5 Working Days)
- (C) Limited Stock (Ships in 2 Weeks)

Chamfer Mills CMS & CMH Series



SERIES: CMS90
90° Chamfer Mill, Straight Flute

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	WEB THICKNESS	DESCRIPTION	COATING	STOCK CODE	EDP#
1/8	1/8	.062	1 1/2	2	.015	CMS90-2-0125	Alcrona Pro	A	S09021
3/16	3/16	.093	2	2	.018	CMS90-2-0187	Alcrona Pro	A	S09022
1/4	1/4	.125	2 1/2	2	.020	CMS90-2-0250	Alcrona Pro	A	S09023
1/4	1/4	.125	2 1/2	4	.020	CMS90-4-0250	Alcrona Pro	A	S09043
3/8	3/8	.187	2 1/2	2	.035	CMS90-2-0375	Alcrona Pro	A	S09024
3/8	3/8	.187	2 1/2	4	.035	CMS90-4-0375	Alcrona Pro	A	S09044
1/2	1/2	.250	3	2	.040	CMS90-2-0500	Alcrona Pro	A	S09025
1/2	1/2	.250	3	4	.040	CMS90-4-0500	Alcrona Pro	A	S09045
5/8	5/8	.313	3	2	.040	CMS90-2-0625	Alcrona Pro	A	S09026
5/8	5/8	.313	3	4	.040	CMS90-4-0625	Alcrona Pro	A	S09046

SERIES: CMH90
90° Chamfer Mill, Helical Flute

CUT DIA	SHANK DIA	LENGTH OF CUT (LOC)	OVERALL LENGTH (OAL)	# OF FLUTES	TIP DIA	DESCRIPTION	COATING	STOCK CODE	EDP#
1/8	1/8	.050	1 1/2	2	.025	CMH90-2-0125	Alcrona Pro	A	H09021
3/16	3/16	.074	2	2	.040	CMH90-2-0187	Alcrona Pro	A	H09022
1/4	1/4	.095	2 1/2	3	.060	CMH90-3-0250	Alcrona Pro	A	H09033
1/4	1/4	.095	2 1/2	5	.060	CMH90-5-0250	Alcrona Pro	A	H09053
3/8	3/8	.153	2 1/2	3	.070	CMH90-3-0375	Alcrona Pro	A	H09034
3/8	3/8	.153	2 1/2	5	.070	CMH90-5-0375	Alcrona Pro	A	H09054
1/2	1/2	.210	3	3	.080	CMH90-3-0500	Alcrona Pro	A	H09035
1/2	1/2	.210	3	5	.080	CMH90-5-0500	Alcrona Pro	A	H09055
5/8	5/8	.268	3	3	.090	CMH90-3-0625	Alcrona Pro	A	H09036
5/8	5/8	.268	3	5	.090	CMH90-5-0625	Alcrona Pro	A	H09056

Stock Code Key:

- (A) Factory Stock Item
- (B) Limited Stock (Ships in 3 - 5 Working Days)
- (C) Limited Stock (Ships in 2 Weeks)



SFPM / Chipload Chart

PERFORMANCE YOU
CAN TRUST, QUALITY
YOU CAN MEASURE

Materials	Aluminum	Carbon Steels	Alloy Steel	Stainless				Cast Iron		High Temp Alloys			Tool Steels		Mold Steel
Description	2024, 6061, 7075	10XX, 11XX, 13XX, 15XX	40XX, 41XX, 42XX, 43XX, 44XX, 86XX Series	303	304, 304L, 316, 316L	410, 416, 420, 430F, 440C	13-8PH, 15-4PH, 16-6PH, 17-4PH	Gray	Ductile	Inconel 600 / 718, A286, Haynes	Pure Titanium	Wrought/ Cast 6AL4, ASTM 1, 2 & 3 Alpha - Beta	A2, S7, H1, H13	D2	P20
SFM <32RC	800-2000	200 - 450	150 - 300	150 - 350	150 - 250	200 - 450	80 - 250	250 - 450	120 - 350	70 - 120	140 - 220	140 - 200	90 - 140	250 - 450	150 - 250
SFM >32RC		100 - 250	80 - 200	80 - 200		100 - 250	90 - 125	130 - 300	80 - 140	40 - 90	90 - 160	90 - 160	80 - 120	100 - 160	80 - 160
1/4"	S	.0030	.0014	.0012	.0013	.0012	.0013	.0012	.0012	.0008	.0012	.0012	.0008	.0008	.0010
	HP	.0040	.0017	.0012	.0013	.0012	.0013	.0010	.0013	.0009	.0014	.0012	.0010	.0010	.0012
	LP	.0060	.0019	.0016	.0013	.0012	.0014	.0013	.0015	.0012	.0014	.0014	.0012	.0015	.0013
3/8"	S	.0050	.0018	.0016	.0016	.0015	.0016	.0015	.0018	.0014	.0016	.0015	.0015	.0012	.0015
	HP	.0060	.0018	.0016	.0018	.0015	.0015	.0016	.0018	.0014	.0016	.0016	.0016	.0012	.0016
	LP	.0080	.0025	.0022	.0022	.0016	.0016	.0016	.0018	.0015	.0022	.0018	.0018	.0015	.0018
1/2"	S	.0060	.0030	.0025	.0027	.0025	.0025	.0025	.0027	.0020	.0026	.0025	.0025	.0020	.0025
	HP	.0070	.0030	.0030	.0032	.0030	.0030	.0028	.0030	.0022	.0025	.0025	.0026	.0020	.0025
	LP	.0120	.0035	.0032	.0035	.0035	.0038	.0035	.0038	.0040	.0025	.0030	.0030	.0025	.0030
5/8"	S	.0070	.0035	.0030	.0030	.0030	.0030	.0030	.0035	.0025	.0035	.0030	.0030	.0025	.0030
	HP	.0090	.0038	.0035	.0030	.0030	.0030	.0035	.0035	.0028	.0035	.0030	.0030	.0025	.0030
	LP	.0150	.0040	.0040	.0040	.0040	.0040	.0040	.0044	.0030	.0040	.0038	.0038	.0030	.0035
3/4"	S	.0080	.0040	.0040	.0040	.0035	.0035	.0035	.0040	.0028	.0040	.0038	.0038	.0032	.0035
	HP	.0150	.0050	.0040	.0043	.0040	.0040	.0040	.0045	.0035	.0040	.0040	.0040	.0035	.0040
	LP	.0200	.0060	.0050	.0050	.0045	.0040	.0040	.0045	.0040	.0050	.0045	.0050	.0045	.0050
1"	S	.0100	.0050	.0040	.0040	.0040	.0040	.0040	.0050	.0038	.0050	.0042	.0042	.0040	.0045
	HP	.0150	.0060	.0060	.0050	.0050	.0045	.0045	.0050	.0040	.0050	.0045	.0045	.0040	.0045
	LP	.0200	.0070	.0060	.0065	.0060	.0060	.0060	.0070	.0055	.0070	.0060	.0060	.0050	.0055
Stub and Regular Length				S = Slotting Axial Depth up to .5 X Diameter				HP = Heavy Peripheral Axial DOC = LOC Radial DOC = .5 X Diameter				LP = Light Profile Axial DOC = LOC Radial WOC = .15 X Diameter			
Medium Length				S = Slotting Not Recommended				HP = Heavy Peripheral Axial DOC = up to 1 X Diameter Radial DOC = .2 X Diameter				LP = Light Profile Axial DOC = up to 1.5 X Diameter Radial WOC = .1 X Diameter			

Terms and Conditions

Authorized Distribution

The Core Cutter product lines are sold through a national network of independent industrial distributors. These distributors are selected based on their commitment to customer service, technical expertise and commitment to quality. Please contact Customer Service to find your Authorized Core Cutter Distributor.

Commitment to Quality

Core Cutter, LLC is committed to high quality, high performance carbide tooling. In order to better serve our customers, we reserve the right to make changes to our products as is needed to comply with our rigorous Commitment to Quality. As such, this catalog may not represent current tooling specifications, or designs modified after its issue date and therefore does not justify any claims.

Product Safety

Any cutting tool may be subject to breaking and/or shattering under improper use. Government regulations require the use of safety glasses and other protective equipment in the vicinity of use. Additionally, the use of cutting tools can produce potentially hazardous dusts and/or mists, the particles of which can cause health related issues. To avoid adverse health effects, always use proper ventilation and consult the Safety Data Sheet for other recommendations.

Product Warranty

Core Cutter will repair or replace any of our products that are evaluated and determined to be defective in either materials and/or workmanship for up to one (1) year from the purchase date of said product. This warranty shall not apply to any Core Cutter product that has been altered, reconditioned/repared, misused or exposed to improper or unrecommended operating parameters and/or procedures.

Returned Product

Core Cutter honors new, unmodified, quality condition returned standard catalog tooling purchased within six (6) months for full refund. New, unmodified, quality condition standard catalog tooling purchased within one (1) year can be returned for merchandise credit and is subject to a 5% Restocking Fee. All returned product must be accompanied by a Core Cutter supplied Return Merchandise Authorization (RMA). Custom-made, modified, used, and/or damaged tooling will not be accepted for return unless subject to Product Warranty. Please contact our Customer Service to obtain an RMA.

Damaged Product

All product is shipped FOB factory via thirdparty parcel and freight carriers. It is the responsibility of the receiver to notify Core Cutter immediately if a package is missing or damaged. Our Customer Service will assist you in filing claims proceedings directly with the carrier. To ensure fast resolution, please keep the original damaged packaging and/or photographs, when applicable.

Over or Under Shipments

All custom-made and modified tooling is subject to a +/-10% (or 1 piece) over/under shipment policy.

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295310	9	301200	13	303121	14	305200	14	305841	15	306820	16

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497141	22	503411	26	506111	27	508301	29	596231	27	H09033	36
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501101	25	505111	26	506421	28	508811	29	705122	34	S09044	36
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501331	25	505321	26	507101	28	540001	31	707101	33		
501341	25	505331	26	507111	28	540201	31	707111	33		



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