

AVEL3 SERIES Aluminum 3FL V-Notch RampMill Necked XL



PATENT PENDING

The AVEL3 *RampMill* is the fastest way to machine Aluminum. When used in conjunction with controlled engagement toolpaths and trochoidal paths, it achieves the highest Material Removal Rate (MRR) possible by a solid carbide tool and the Patent Pending coolant hole extends tool life exponentially. By ramping at 5-9 times greater angles than an endmill, the *RampMill* can enter material by helically ramping holes nearly as fast as they can be drilled. By making entry into the middle of the pocket, retract cutter path (air time) is greatly reduced and peak MRR can be achieved, drastically reducing cycle times.

- Outperforms All Other Tools In Controlled Engagement Toolpaths.
- The *RampMill's* Patent Pending Features Are Engineered Specifically For Controlled Engagement Toolpaths.
- RampMill End Geometry Allows For Ramping At 12-17 Degrees In Aluminum.
- Core Designed For Optimum Strength To Handle The Highest Tool Loads.
- Truncated Radius Adds Corner Strength While Avoiding The Wear Points Of A traditional Radius.
- Center Through-Coolant Hole Delivers Coolant Or Air To Blast Chips Away, Eliminating Re-Cutting And Skyrocketing Tool Life And Productivity.



How To Build Your 16 Digit Part Number

First6	Middle6	End Geo	Coolant Hole	Coating	=	Part # to Order
AV0375	39CBU3	T6	0	0		AV037539CBU3T600



First 6 GEO & DIA#	Middle 6 FL,LOC, & LBS#	End Geometry					Stk/Std Roughing *T.Rad	Pick 1		Pick 1
		DIA	FL#	LOC	LBS	OAL		Coolant Hole None Center	Coating None	
AV0375	39CBU3	0.375	3	0.562	0.750	2.500	T6 (.030)	0	C	0
	39CCS3	0.375	3	0.562	1.000	2.500				
	39CE65	0.375	3	0.562	1.500	3.000				
	39CFK7	0.375	3	0.562	2.000	3.500				
	36WGS9	0.375	3	0.375	2.500	4.000				
	36WHYB	0.375	3	0.375	3.000	4.500				
	36WJ4E	0.375	3	0.375	3.500	5.000				
	36WKAG	0.375	3	0.375	4.000	5.500				
AV0500	3BUE67	0.500	3	0.750	1.500	3.500	TC (.060)	0	C	0
	3BUE67	0.500	3	0.750	1.500	3.500				
	3BUE67	0.500	3	0.750	2.000	4.000				
	3BUGSB	0.500	3	0.750	2.500	4.500				
	38IHYE	0.500	3	0.500	3.000	5.000				
	38IJ4G	0.500	3	0.500	3.500	5.500				
	38IKAI	0.500	3	0.500	4.000	6.000				
	38ILGK	0.500	3	0.500	4.500	6.500				
38IMML	0.500	3	0.500	5.000	7.000					
AV0625	3CIE67	0.625	3	0.937	1.500	3.500	TC (.060)	0	C	0
	3CIE67	0.625	3	0.937	1.500	3.500				
	3CIE67	0.625	3	0.937	2.000	4.000				
	3CIGSB	0.625	3	0.937	2.500	4.500				
	3CIHYE	0.625	3	0.937	3.000	5.000				
	3CIJ4G	0.625	3	0.937	3.500	5.500				
	3A6KAI	0.625	3	0.625	4.000	6.000				
	3A6LGK	0.625	3	0.625	4.500	6.500				
	3A6MML	0.625	3	0.625	5.000	7.000				
	3A6NUN	0.625	3	0.625	5.500	7.500				
3A6Q0P	0.625	3	0.625	6.000	8.000					
AV0750	3D4FK9	0.750	3	1.125	2.000	4.000	TC (.060)	0	C	0
	3D4FK9	0.750	3	1.125	2.000	4.000				
	3D4GSB	0.750	3	1.125	2.500	4.500				
	3D4HYE	0.750	3	1.125	3.000	5.000				
	3D4J4G	0.750	3	1.125	3.500	5.500				
	3D4KAI	0.750	3	1.125	4.000	6.000				
	3BULGK	0.750	3	0.750	4.500	6.500				
	3BUMML	0.750	3	0.750	5.000	7.000				
	3BUNUN	0.750	3	0.750	5.500	7.500				
	3BUQ0P	0.750	3	0.750	6.000	8.000				
	3BUR6Q	0.750	3	0.750	6.500	8.500				
	3BUSCR	0.750	3	0.750	7.000	9.000				
	3BUTIT	0.750	3	0.750	7.500	10.000				

* These tools are stocked with a patent pending truncated roughing radius, which is not suitable for finished radius tolerances.

AVEL3 SERIES Continued



PATENT PENDING



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First6	Middle6	End Geo	Coolant Hole	Coating	=	Part # to Order
AV1000	3E6GSE	TC	0	0		AV10003E6GSETC00

GEO & DIA#	FL,LOC, & LBS#						Stk/Std Roughing *T.Rad	Coolant Hole		Coating
		DIA	FL#	LOC	LBS	OAL		None	Center	None
AV1000	3E6GSE	1.000	3	1.500	2.500	5.000	TC (.060)	0	C	0
	3E6HYG	1.000	3	1.500	3.000	5.500				
	3E6J4I	1.000	3	1.500	3.500	6.000				
	3E6KAK	1.000	3	1.500	4.000	6.500				
	3E6LGL	1.000	3	1.500	4.500	7.000				
	3E6MMN	1.000	3	1.500	5.000	7.500				
	3E6NUP	1.000	3	1.500	5.500	8.000				
	3E6Q0Q	1.000	3	1.500	6.000	8.500				
	3E6R6R	1.000	3	1.500	6.500	9.000				
	3E6SCS	1.000	3	1.500	7.000	9.500				
3E6TIT	1.000	3	1.500	7.500	10.000					

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