

AV3 SERIES Aluminum 3FL V-Notch RampMill



The AV3 *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
AV0187	34E001	Т3	0	0	AV018734E001T300



First 6	Middle 6				End Geometry	Pick 1		Pick 1		
GEO	FL,LOC,			Stk/Std Roughing	Coolant Hole		Coating			
& DIA#	& LBS#	DIA	FL#	LOC	LBS	OAL	*T.Rad	None	Center	None
	34E001	0.187	3	0.187	0	2.000				
	35M001	0.187	3	0.281	0	2.000				
	36W001	0.187	3	0.375	0	2.000	Т3			
AV0187	384001	0.187	3	0.468	0	2.000		0	С	0
	39C001	0.187	3	0.562	0	2.000	(.015)			
	3AK001	0.187	3	0.656	0	2.000				
	3BU003	0.187	3	0.750	0	2.500				
	358001	0.250	3	0.250	0	2.000				
	36W001	0.250	3	0.375	0	2.000				
	38I001	0.250	3	0.500	0	2.000	Т6			
AV0250	3A6001	0.250	3	0.625	0	2.000		0	С	0
	3BU003	0.250	3	0.750	0	2.500	(.030)			
	3CA003	0.250	3	0.875	0	2.500				
	3CS005	0.250	3	1.000	0	3.000				
	362001	0.312	3	0.312	0	2.000				
	384001	0.312	3	0.468	0	2.000				
	3A6003	0.312	3	0.625	0	2.500	Т6			
AV0312	3BY003	0.312	3	0.781	0	2.500		0	С	0
	3CI003	0.312	3	0.937	0	2.500	(.030)			
	3D2005	0.312	3	1.100	0	3.000				
	3DG005	0.312	3	1.250	0	3.000				
	36W001	0.375	3	0.375	0	2.000				
	39C003	0.375	3	0.562	0	2.500				
	3BU003	0.375	3	0.750	0	2.500	Т6			
AV0375	3CI003	0.375	3	0.937	0	2.500		0	С	0
	3D4005	0.375	3	1.125	0	3.000	(.030)			
	3DM005	0.375	3	1.312	0	3.000				
	3E6005	0.375	3	1.500	0	3.000				
	37Q004	0.437	3	0.437	0	2.750				
	3AK004	0.437	3	0.656	0	2.750				
	3CA005	0.437	3	0.875	0	3.000	TC		_	
AV0437	3D2005	0.437	3	1.100	0	3.000	()	0	С	0
	3DM007	0.437	3	1.312	0	3.500	(.060)			
	3EA007	0.437	3	1.550	0	3.500				
	3EW009	0.437	3	1.750	0	4.000				

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





AV3 SERIES Continued





How To Build Your 16 Digit Part Number

AV0500	381003	TC	0	0	=	AV050038I003TC00
First6	Middle6	End Geo	Coolant Hole	Coating		Part # to Order



GEO	FL,LOC, & LBS#						Stk/Std Roughing	Coolant Hole		Coating
& DIA#		DIA	FL#	LOC	LBS	OAL	*T.Rad	None	Center	None
	381003	0.500	3	0.500	0	2.500				
- 1	3BU005	0.500	3	0.750	0	3.000	1	o	c	o
1000000000	3CS005	0.500	3	1.000	0	3.000	тс			
AV0500	3DG005	0.500	3	1.250	0	3.000	61245			
- 1	3E6007	0.500	3	1.500	0	3.500	(.060)	ı		ı
- 1	3EW007	0.500	3	1.750	0	3.500	13000000	ı		ı
	3FK009	0.500	3	2.000	0	4.000				
	3A6005	0.625	3	0.625	0	3.000	7		1	
	3CI005	0.625	3	0.937	0	3.000				
	3DG007	0.625	3	1.250	0	3.500	тс	0	С	0
AV0625	3EC007	0.625	3	1.563	0	3.500				
ALORES DE	3F8009	0.625	3	1.875	0	4.000	(.060)	(654)		1000
	3G2009	0.625	3	2.200	0	4.000	0.000 A			
	3GS00E	0.625	3	2.500	0	5.000	l l			
	3BU005	0.750	3	0.750	0	3.000				
- 1	3D4007	0.750	3	1.125	0	3.500	1	I		1
	3E6009	0.750	3	1.500	0	4.000	TC			
AV0750	3F800E	0.750	3	1.875	0	5.000	ne-	0	С	0
	3G600E	0.750	3	2.250	0	5.000	(.060)			
- 1	3H200E	0.750	3	2.625	0	5.000	()			
	3HY00I	0.750	3	3.000	0	6.000				
	3CA009	0.875	3	0.875	0	4.000	TC			-
AV0875	3DM009	0.875	3	1.312	0	4.000		0	С	0
	3EW009	0.875	3	1.750	0	4.000	(.060)	1.50		150
	3CS009	1.000	3	1.000	0	4.000				
- 1	3E6009	1.000	3	1.500	0	4.000		ı		ı
	3FK00B	1.000	3	2.000	0	4.500	The second second			l
AV1000	3GS00E	1.000	3	2.500	0	5.000	TC			
	3HY00I	1.000	3	3.000	0	6.000	(.060)	0	С	0
- 1	3J400I	1.000	3	3.500	0	6.000				l
- 1	3KA00L	1.000	3	4.000	0	7.000				i

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