

XD4 & XD4CH SERIES

Extreme Series 4FL VP-VH Heavy Roughing RampMill



PATENT PENDING

The XD4 has an improved Variable Pitch/Variable Helix design which eliminates the harmonics that cause vibration and chatter, and also has the Patent Pending *RampMill* end for increased Ramping ability. As a result, it can be used with Controlled Engagement toolpaths, as well as for everything from full slotting, to light and heavy roughing. 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. In conjunction with a controlled engagement toolpath 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 making entry into the middle of the pocket, retract cutter path (air time) is greatly reduced and peak MRR is achieved, drastically reducing cycle times.

- Combination Of The Improved Variable Pitch/Helix Rougher And The RampMill Design.
- Eliminates Chatter And Ramps At 5-9 Times Greater Angles Than An Endmill.
- **Outperforms All Other Tools In The New Controlled Engagement Toolpaths.**
- Large Number Of Patent Pending Features All Engineered Specifically For Controlled Engagement Toolpaths.
- RampMill End Geometry Allows For Ramping At 5-8 Degrees In Steels, Stainless Steels, And Exotics.
- Core Designed For Optimum Strength To Handle The Highest
- Truncated Radius Adds Corner Strength While Avoiding The Wear Points Of A traditional Radius.
- Center Coolant Hole Delivers Coolant Or Air To Blast Chips Away, Eliminating Re-Cutting And Skyrocketing Tool Life.



How To Build Your 16 Digit Part Number

First6 Middle6 End Geo Coolant Hole Coating Part # to Order	XD0375	481001	Т6	0	М	=	XD037548I001T60M
	First6	Middle6	End Geo	Coolant Hole	Coating		Part # to Order



First 6	Middle 6						End Geometry	Pi	ck 1	Pick 1
GEO	FL,LOC,			Stk/Std Roughing	Coolant Hole		Coating			
& DIA# & LBS#		DIA	FL#	LOC	LBS	OAL	*T.Rad	None	Center	MDC
	481001	0.375	4	0.500	0	2.000				
	4BU003	0.375	4	0.750	0	2.500				
	4CA003	0.375	4	0.875	0	2.500				
	4CS005	0.375	4	1.000	0	3.000	Т6			
XD0375	4DG005	0.375	4	1.250	0	3.000		0	С	М
	4E6007	0.375	4	1.500	0	3.500	(.030)			
	4EW007	0.375	4	1.750	0	3.500				
	4FK009	0.375	4	2.000	0	4.000				
	4GS009	0.375	4	2.500	0	4.000				
	481004	0.437	4	0.500	0	2.750				
	4A6004	0.437	4	0.625	0	2.750				
	4CA004	0.437	4	0.875	0	2.750				
	4CS004	0.437	4	1.000	0	2.750	TC			
XD0437	4DG004	0.437	4	1.250	0	2.750		0	С	М
	4E6007	0.437	4	1.500	0	3.500	(.060)			
	4EW009	0.437	4	1.750	0	4.000				
	4FK009	0.437	4	2.000	0	4.000				
	4HY00E	0.437	4	3.000	0	5.000				
	4A6003	0.500	4	0.625	0	2.500				
	4CS005	0.500	4	1.000	0	3.000				
	4DG005	0.500	4	1.250	0	3.000				
	4E6007	0.500	4	1.500	0	3.500	TC			
XD0500	4EW009	0.500	4	1.750	0	4.000		0	С	М
	4FK009	0.500	4	2.000	0	4.000	(.060)			
	4G6009	0.500	4	2.250	0	4.000				
	4GS00B	0.500	4	2.500	0	4.500				
	4HY00E	0.500	4	3.000	0	5.000				
	4BU005	0.625	4	0.750	0	3.000				
	4DG007	0.625	4	1.250	0	3.500				
	4EI007	0.625	4	1.625	0	3.500	тс			
XD0625	4FK009	0.625	4	2.000	0	4.000	10	0	С	м
AD0025	4G600B	0.625	4	2.250	0	4.500	(060)	U	C	141
	4GS00E	0.625	4	2.500	0	5.000	(.060)			
	4HY00E	0.625	4	3.000	0	5.000				
	4II00G	0.625	4	3.250	0	5.500				

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





XD4 & XD4CH SERIES Continued





How To Build Your 16 Digit Part Number

First6 Middle6 End Geo Coolant Hole Coating Part # to Order	Part # to Order	Coating	Coolant Hole	End Geo	Middle6	First6



GEO FL,LOC,						Stk/Std Roughing	Coolant Hole		Coating	
& DIA#	& LBS#	DIA	FL#	LOC	LBS	OAL	*T.Rad	None Center		MDC
XD0750	4BU005 4CS007 4DG007 4E6007 4EW009 4G600B 4GS00E 4HC00E 4HY00E 4II00G 4J400I 4KA00I	0.750 0.750 0.750 0.750 0.750 0.750 0.750 0.750 0.750 0.750 0.750 0.750 0.750	4 4 4 4 4 4 4 4 4 4	0.750 1.000 1.250 1.500 1.750 2.250 2.500 2.750 3.000 3.250 3.500 4.000	0 0 0 0 0 0 0 0 0	3.000 3.500 3.500 3.500 4.000 4.500 5.000 5.000 5.500 6.000 6.000	TC (.060)	0	С	M
XD0875	4LG00L 4EI009 4H200E 4HY00E 4JQ00I	0.750 0.875 0.875 0.875 0.875	4 4 4 4	4.500 1.625 2.625 3.000 3.750	0 0 0 0	7.000 4.000 5.000 5.000 6.000	TC (.060)	0	С	М
XD1000	4E6009 4FK00B 4GG00E 4H200E 4HY00I 4IU00I 4JE00I 4KK00L 4LG00L 4MM00N	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	4 4 4 4 4 4 4	1.500 2.000 2.375 2.625 3.000 3.375 3.625 4.125 4.500 5.000	0 0 0 0 0 0 0 0	4.000 4.500 5.000 5.000 6.000 6.000 7.000 7.000 7.500	TC (.060)	0	С	м
XD1250	4E6009 4G600B 4HY00I 4JE00I 4L600N 4MY00N 4Q000R 4R300R	1.250 1.250 1.250 1.250 1.250 1.250 1.250 1.250	4 4 4 4 4 4 4	1.500 2.250 3.000 3.625 4.375 5.125 6.000 6.500	0 0 0 0 0 0 0	4.000 4.500 6.000 6.000 7.500 7.500 9.000 9.000	TC (.060)	0	С	М

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