

TuffCut® Micro - Series 3MVS

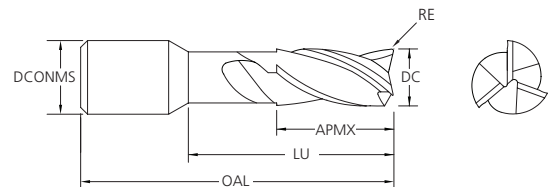
Designed for high performance micro milling on any ferrous material, especially material used in medical and aerospace manufacturing.



NEW CORNER RADIUS OPTIONS



- Variable helix.
- Stub length.
- Square end and corner radius options.
- Neck relief options.
- ALtima® Xtreme coated.
- Common shanks.



ALtima® Xtreme		DC			DCONMS		OAL		APMX		LU		RE	
Tool No.	EDP	Fraction	mm	Decimal	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
3MVS0156AH	39000	1/64		.0156	1/8		1-1/2		0.023					
3MVS0156N5AH	39002	1/64		.0156	1/8		2-1/2		0.023		0.078			
3MVS0156N8AH	39003	1/64		.0156	1/8		2-1/2		0.023		0.125			
3MVS0156R.003AH	39066	1/64		.0156	1/8		1-1/2		0.023				.003	
3MVS0156R.003N5AH	39068	1/64		.0156	1/8		2-1/2		0.023		0.078		.003	
3MVS0156R.003N8AH	39069	1/64		.0156	1/8		2-1/2		0.023		0.125		.003	
3MVSM0050AH	39004		0.50	.0196		4		50		0.75				
3MVSM0050R.10AH	39070		0.50	.0196		4		50		0.75				.10
3MVSM0050R.10N5AH	39072		0.50	.0196		4		50		0.75		2.5		.10
3MVSM0050R.10N8AH	39073		0.50	.0196		4		50		0.75		4.0		.10
3MVS0312AH	39006	1/32		.0312	1/8		1-1/2		0.047					
3MVS0312N3AH	39008	1/32		.0312	1/8		1-1/2		0.047		0.093			
3MVS0312N5AH	39009	1/32		.0312	1/8		2-1/2		0.047		0.156			
3MVS0312N8AH	39010	1/32		.0312	1/8		2-1/2		0.047		0.250			
3MVS0312N10AH	39011	1/32		.0312	1/8		2-1/2		0.047		0.312			
3MVS0312N12AH	39012	1/32		.0312	1/8		2-1/2		0.047		0.375			
3MVS0312N15AH	39013	1/32		.0312	1/8		2-1/2		0.047		0.480			
3MVS0312R.005AH	39074	1/32		.0312	1/8		1-1/2		0.047				.005	
3MVS0312R.005N5AH	39076	1/32		.0312	1/8		2-1/2		0.047		0.156		.005	
3MVS0312R.005N8AH	39077	1/32		.0312	1/8		2-1/2		0.047		0.250		.005	
3MVS0312R.010AH	39078	1/32		.0312	1/8		1-1/2		0.047				.010	
3MVS0312R.010N5AH	39080	1/32		.0312	1/8		2-1/2		0.047		0.156		.010	
3MVS0312R.010N8AH	39081	1/32		.0312	1/8		2-1/2		0.047		0.250		.010	
3MVSM0100AH	39014		1.00	.0394		4		50		1.50				
3MVSM0100N5AH	39016		1.00	.0394		4		50		1.50		5		
3MVSM0100N8AH	39017		1.00	.0394		4		50		1.50		8		
3MVSM0100R.10AH	39082		1.00	.0394		4		50		1.50				.10
3MVSM0100R.10N5AH	39084		1.00	.0394		4		50		1.50		5		.10

Inch	
DC	Tolerance
.0156 - .1250	+0/- .0008

Inch	
DCONMS	Tolerance (h6)
.1250	+0/- .00031

Metric (mm)	
DC	Tolerance
0.5 - 3.0	+0/- .020

Metric (mm)	
DCONMS	Tolerance
4.0	+0/- .008



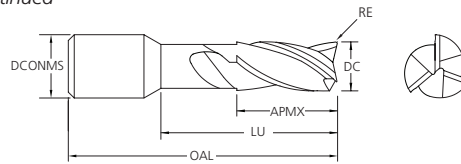
ALtima® Xtreme		DC			DCONMS		OAL		APMX		LU		RE	
Tool No.	EDP	Fraction	mm	Decimal	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
3MVSM0100R.10N8AH	39085		1.00	.0394		4		50		1.50		8		.10
3MVSM0100R.20AH	39165		1.00	.0394		4		50		1.50				.20
3MVS0468AH	39018	3/64		.0468	1/8		1-1/2		0.070					
3MVS0468N5AH	39020	3/64		.0468	1/8		2-1/2		0.070		0.250			
3MVS0468N8AH	39021	3/64		.0468	1/8		2-1/2		0.070		0.375			
3MVS0468N10AH	39022	3/64		.0468	1/8		2-1/2		0.070		0.480			
3MVS0468R.005AH	39086	3/64		.0468	1/8		1-1/2		0.070				.005	
3MVS0468R.005N5AH	39088	3/64		.0468	1/8		2-1/2		0.070		0.250		.005	
3MVS0468R.005N8AH	39089	3/64		.0468	1/8		2-1/2		0.070		0.375		.005	
3MVS0468R.010AH	39090	3/64		.0468	1/8		1-1/2		0.070				.010	
3MVS0468R.010N5AH	39092	3/64		.0468	1/8		2-1/2		0.070		0.250		.010	
3MVS0468R.010N8AH	39093	3/64		.0468	1/8		2-1/2		0.070		0.375		.010	
3MVSM0150AH	39023		1.50	.0591		4		50		2.25				
3MVSM0150R.20AH	39094		1.50	.0591		4		50		2.25				.20
3MVSM0150R.20N5AH	39096		1.50	.0591		4		50		2.25		7.5		.20
3MVSM0150R.20N8AH	39097		1.50	.0591		4		50		2.25		12		.20
3MVSM0150R.50AH	39162		1.50	.0591		4		50		2.25				.50
3MVSM0150R.50N6AH	39163		1.50	.0591		4		50		2.25		10		.50
3MVSM0150R.50N8AH	39164		1.50	.0591		4		50		2.25		12		.50
3MVS0625AH	39025	1/16		.0625	1/8		1-1/2		0.094					
3MVS0625N3AH	39027	1/16		.0625	1/8		1-1/2		0.094		0.187			
3MVS0625N5AH	39028	1/16		.0625	1/8		2-1/2		0.094		0.312			
3MVS0625N8AH	39029	1/16		.0625	1/8		2-1/2		0.094		0.500			
3MVS0625N10AH	39030	1/16		.0625	1/8		2-1/2		0.094		0.625			
3MVS0625N12AH	39031	1/16		.0625	1/8		2-1/2		0.094		0.750			
3MVS0625N15AH	39032	1/16		.0625	1/8		2-1/2		0.094		0.950			
3MVS0625R.005AH	39098	1/16		.0625	1/8		1-1/2		0.094				.005	
3MVS0625R.005N5AH	39100	1/16		.0625	1/8		2-1/2		0.094		0.312		.005	
3MVS0625R.005N8AH	39101	1/16		.0625	1/8		2-1/2		0.094		0.500		.005	
3MVS0625R.010AH	39102	1/16		.0625	1/8		1-1/2		0.094				.010	
3MVS0625R.010N5AH	39104	1/16		.0625	1/8		2-1/2		0.094		0.312		.010	
3MVS0625R.010N8AH	39105	1/16		.0625	1/8		2-1/2		0.094		0.500		.010	
3MVS0625R.015AH	39106	1/16		.0625	1/8		1-1/2		0.094				.015	
3MVS0625R.015N5AH	39108	1/16		.0625	1/8		2-1/2		0.094		0.312		.015	
3MVS0625R.015N8AH	39109	1/16		.0625	1/8		2-1/2		0.094		0.500		.015	
3MVS0781AH	39033	5/64		.0781	1/8		1-1/2		0.117					
3MVS0781N5AH	39035	5/64		.0781	1/8		2-1/2		0.117		0.406			
3MVS0781N8AH	39036	5/64		.0781	1/8		2-1/2		0.117		0.625			
3MVS0781N10AH	39037	5/64		.0781	1/8		2-1/2		0.117		0.800			
3MVS0781R.005AH	39110	5/64		.0781	1/8		1-1/2		0.117				.005	
3MVS0781R.005N5AH	39112	5/64		.0781	1/8		2-1/2		0.117		0.406		.005	
3MVS0781R.005N8AH	39113	5/64		.0781	1/8		2-1/2		0.117		0.625		.005	



TuffCut® Micro - Series 3MVS *Continued*



NEW CORNER RADIUS OPTIONS



ALtima® Xtreme		DC			DCONMS		OAL		APMX		LU		RE	
Tool No.	EDP	Fraction	mm	Decimal	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
3MVS0781R.010AH	39114	5/64		.0781	1/8		1-1/2		0.117				.010	
3MVS0781R.010N5AH	39116	5/64		.0781	1/8		2-1/2		0.117		0.406		.010	
3MVS0781R.010N8AH	39117	5/64		.0781	1/8		2-1/2		0.117		0.625		.010	
3MVS0781R.015AH	39118	5/64		.0781	1/8		1-1/2		0.117				.015	
3MVS0781R.015N5AH	39120	5/64		.0781	1/8		2-1/2		0.117		0.406		.015	
3MVS0781R.015N8AH	39121	5/64		.0781	1/8		2-1/2		0.117		0.625		.015	
3MVSM0200AH	39038		2.00	.0787		4		50		3.00				
3MVSM0200N5AH	39040		2.00	.0787		4		50		3.00		10		
3MVSM0200N8AH	39041		2.00	.0787		4		50		3.00		16		
3MVSM0200R.20AH	39122		2.00	.0787		4		50		3.00				.20
3MVSM0200R.20N5AH	39124		2.00	.0787		4		50		3.00		10		.20
3MVSM0200R.20N8AH	39125		2.00	.0787		4		50		3.00		16		.20
3MVS0938AH	39042	3/32		.0938	1/8		1-1/2		.141					
3MVS0938N3AH	39044	3/32		.0938	1/8		1-1/2		.141		0.279			
3MVS0938N5AH	39045	3/32		.0938	1/8		2-1/2		.141		0.500			
3MVS0938N8AH	39046	3/32		.0938	1/8		2-1/2		.141		0.750			
3MVS0938N10AH	39047	3/32		.0938	1/8		2-1/2		.141		0.950			
3MVS0938N12AH	39048	3/32		.0938	1/8		2-1/2		.141		1.125			
3MVS0938N15AH	39049	3/32		.0938	1/8		2-1/2		.141		1.400			
3MVS0938R.005AH	39126	3/32		.0938	1/8		1-1/2		.141				.005	
3MVS0938R.005N5AH	39128	3/32		.0938	1/8		2-1/2		.141		0.500		.005	
3MVS0938R.005N8AH	39129	3/32		.0938	1/8		2-1/2		.141		0.750		.005	
3MVS0938R.010AH	39130	3/32		.0938	1/8		1-1/2		.141				.010	
3MVS0938R.010N5AH	39132	3/32		.0938	1/8		2-1/2		.141		0.500		.010	
3MVS0938R.010N8AH	39133	3/32		.0938	1/8		2-1/2		.141		0.750		.010	
3MVS0938R.015AH	39134	3/32		.0938	1/8		1-1/2		.141				.015	
3MVS0938R.015N5AH	39136	3/32		.0938	1/8		2-1/2		.141		0.500		.015	
3MVS0938R.015N8AH	39137	3/32		.0938	1/8		2-1/2		.141		0.750		.015	
3MVS0938R.020AH	39138	3/32		.0938	1/8		1-1/2		.141				.020	
3MVS0938R.020N5AH	39140	3/32		.0938	1/8		2-1/2		.141		0.500		.020	
3MVS0938R.020N8AH	39141	3/32		.0938	1/8		2-1/2		.141		0.750		.020	
3MVSM0250AH	39050		2.50	.0984		4		50		3.75				
3MVS1094AH	39052	7/64		.1094	1/8		1-1/2		0.164					
3MVS1094N5AH	39054	7/64		.1094	1/8		2-1/2		0.164		0.570			
3MVS1094N8AH	39055	7/64		.1094	1/8		2-1/2		0.164		0.900			
3MVSM0300AH	39056		3.00	.1181		4		50		4.50				



ALtima® Xtreme		DC			DCONMS		OAL		APMX		LU		RE	
Tool No.	EDP	Fraction	mm	Decimal	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
3MVSM0300N5AH	39058		3.00	.1181		4		50		4.50		15		
3MVSM0300N8AH	39059		3.00	.1181		4		50		4.50		24		
3MVSM0300R.20AH	39142		3.00	.1181		4		50		4.50				.20
3MVSM0300R.20N5AH	39144		3.00	.1181		4		50		4.50		15		.20
3MVSM0300R.20N8AH	39145		3.00	.1181		4		50		4.50		24		.20
3MVS1250AH	39060	1/8		.1250	1/8		1-1/2		0.188					
3MVS1250N3AH	39062	1/8		.1250	1/8		1-1/2		0.188		0.375			
3MVS1250N5AH	39063	1/8		.1250	1/8		2-1/2		0.188		0.625			
3MVS1250N8AH	39064	1/8		.1250	1/8		2-1/2		0.188		1.000			
3MVS1250N10AH	39065	1/8		.1250	1/8		2-1/2		0.188		1.250			
3MVS1250R.005AH	39146	1/8		.1250	1/8		1-1/2		0.188				.005	
3MVS1250R.005N5AH	39148	1/8		.1250	1/8		2-1/2		0.188		0.625		.005	
3MVS1250R.005N8AH	39149	1/8		.1250	1/8		2-1/2		0.188		1.000		.005	
3MVS1250R.010AH	39150	1/8		.1250	1/8		1-1/2		0.188				.010	
3MVS1250R.010N5AH	39152	1/8		.1250	1/8		2-1/2		0.188		0.625		.010	
3MVS1250R.010N8AH	39153	1/8		.1250	1/8		2-1/2		0.188		1.000		.010	
3MVS1250R.015AH	39154	1/8		.1250	1/8		1-1/2		0.188				.015	
3MVS1250R.015N5AH	39156	1/8		.1250	1/8		2-1/2		0.188		0.625		.015	
3MVS1250R.015N8AH	39157	1/8		.1250	1/8		2-1/2		0.188		1.000		.015	
3MVS1250R.020AH	39158	1/8		.1250	1/8		1-1/2		0.188				.020	
3MVS1250R.020N5AH	39160	1/8		.1250	1/8		2-1/2		0.188		0.625		.020	
3MVS1250R.020N8AH	39161	1/8		.1250	1/8		2-1/2		0.188		1.000		.020	



TuffCut® End Mills
Series 3MVS



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