

HIGH PERFORMANCE TOOL CATALOG

AEROSPACE • MEDICAL • DIE & MOLD • ENGINEERING



2016



MELIN HIGH PERFORMANCE CATALOG

- » Aluminum Alloys
- » Titanium Alloys
- » Stainless & Steel Alloys
- » Nickel & Cobalt Based Alloys
- » Hardened Material > 45 HRc
- » Graphite & Composite Materials



www.melintool.com

FERROUS MATERIALS

Ferrous Alloys

78



4 Flute, Variable FL for High Performance roughing applications
Series: VXM4

83



4 Flute, Variable FL for High Performance roughing applications
Series: VXM4-M_M_ (metric)

86



5 Flute, Variable FL for High Performance roughing applications
Series: VXM5

89



5 Flute, Variable FL for High Performance roughing applications
Series: VXM5-M_M_ (metric)

90



7 Flute, Variable FL for semi roughing & finishing applications
Series: VXM7

91



7 Flute, Variable FL for semi roughing & finishing applications
Series: VXM7-M_M_ (metric)

92



9 Flute, Variable FL for optimum fine finish profiling applications
Series: VXM9

93



9 Flute, Variable FL for optimum fine finish profiling applications
Series: VXM9-M_M_ (metric)

Ferrous Alloys

94



4 Flute, Variable FL for general machining applications
Series: VHM4

95



4 Flute, Variable FL for general machining applications
Series: VHM4-M_M_ (metric)

96



4 FL, Ball Nose Variable FL for general machining applications
Series: VHM-B

96



5 Flute, Variable FL for general machining applications
Series: GVHM5

97



3 FL, 60° general machining application in Stainless Steels
Series: EM60

98



Multi Flute, Fine Profile Carbide Roughing End Mill
Series: CRM

98



Multi Flute, Fine Profile Carbide Roughing End Mill
Series: CRM-M_M_ (metric)

99

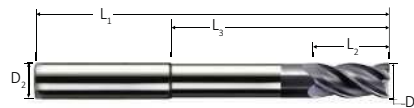


Multi Flute, Rougher Finisher
Series: CRFM

99



4 Flute, Rougher Finisher
Series: CRFM-M_M_ (metric)



4 FLUTE • VARIABLE FLUTE - HP ROUGHING APPLICATIONS



- ▶ Geometry designed for reducing chatter, universal machining operations
- ▶ Ideal for use on Steel and Stainless Alloys and Cast Iron
- ▶ Proprietary nAco coating provides extended tool life over conventional coatings
- ▶ Excellent for heavy cuts, deep slotting and long axial depth profiling

SERIES: VXMg4 ✓ Check Stock Online

DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	LENGTH	PART NAME	nAco EDP	nAco Price
1/16	1/8	1/8		1-1/2	SQ	std	VXMg4-402-NR	H6001	21.64
1/16	1/8	1/8		1-1/2	0.010	std	VXMg4-402-R010	H6002	22.35
3/32	1/8	3/16		1-1/2	SQ	std	VXMg4-403-NR	H6003	21.64
3/32	1/8	3/16		1-1/2	0.010	std	VXMg4-403-R010	H6004	22.35
1/8	1/8	3/16	3/8	2	0.015	ext neck	VXMg4-404-R015N1	15733	23.99
1/8	1/8	3/16	7/8	2	0.015	ext neck	VXMg4-404-R015N2	15735	23.99
1/8	1/8	3/16	no neck	2	0.015	no neck	VXMg4-404-R015NN	15715	18.67
1/8	1/8	1/4		1-1/2	SQ	stub	VXMg4-404-NRS	15697	17.49
1/8	1/8	1/4		1-1/2	0.015	stub	VXMg4-404-R015S	15699	17.49
1/8	1/8	1/2		1-1/2	SQ	std	VXMg4-404-NR	15729	18.67
1/8	1/8	1/2		1-1/2	.011 X 45°	std	VXMg4-404	13105	18.67
1/8	1/8	1/2		1-1/2	0.015	std	VXMg4-404-R015	15731	18.67
3/16	3/16	1/4		1-1/2	SQ	stub	VXMg4-606-NRS	15737	20.18
3/16	3/16	1/4		1-1/2	0.015	stub	VXMg4-606-R015S	15739	20.18
3/16	3/16	1/4	1/2	3	0.015	ext neck	VXMg4-606-R015N1	15745	29.25
3/16	3/16	1/4	3/4	3	0.015	ext neck	VXMg4-606-R015N2	15747	29.25
3/16	3/16	1/4	no neck	3	0.015	no neck	VXMg4-606-R015NN	15717	26.75
3/16	3/16	5/8		2	SQ	std	VXMg4-606-NR	15741	22.52
3/16	3/16	5/8		2	.011 X 45°	std	VXMg4-606	13106	22.52
3/16	3/16	5/8		2	0.015	std	VXMg4-606-R015	15743	22.52
1/4	1/4	3/8		2	SQ	stub	VXMg4-808-NRS	15749	25.16
1/4	1/4	3/8		2	0.015	stub	VXMg4-808-R015S	15751	25.16
1/4	1/4	3/8		2	0.030	stub	VXMg4-808-R030S	15753	25.16
1/4	1/4	3/8	3/4	3	0.015	ext neck	VXMg4-808-R015N1	15765	41.13
1/4	1/4	3/8	3/4	3	0.030	ext neck	VXMg4-808-R030N1	15767	41.13
1/4	1/4	3/8	1-1/8	3	0.015	ext neck	VXMg4-808-R015N2	15768	41.13
1/4	1/4	3/8	1-1/8	3	0.030	ext neck	VXMg4-808-R030N2	15769	41.13
1/4	1/4	3/8	2-1/8	4	0.015	ext neck	VXMg4-808-R015N3	15770	47.30
1/4	1/4	3/8	2-1/8	4	0.030	ext neck	VXMg4-808-R030N3	15771	47.30
1/4	1/4	3/8	no neck	4	0.015	no neck	VXMg4-808-R015NN	15719	37.79
1/4	1/4	3/8	no neck	4	0.030	no neck	VXMg4-808-R030NN	15721	37.79
1/4	1/4	1/2		2	.011 X 45°	stub	VXMg4-808-S	13107	25.16
1/4	1/4	3/4		2-1/2	SQ	std	VXMg4-808-NR	15755	29.33
1/4	1/4	3/4		2-1/2	.011 X 45°	std	VXMg4-808	13108	29.33
1/4	1/4	3/4		2-1/2	0.015	std	VXMg4-808-R015	15757	29.33
1/4	1/4	3/4		2-1/2	0.030	std	VXMg4-808-R030	15759	29.33
1/4	1/4	1-1/8		3	0.000	long	VXMg4-808-NRL	15761	34.26
1/4	1/4	1-1/8		3	0.015	long	VXMg4-808-R015L	15762	34.26
1/4	1/4	1-1/8		3	0.030	long	VXMg4-808-R030L	15763	34.26

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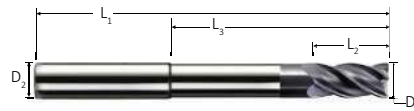
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4 FLUTE • VARIABLE FLUTE - HP ROUGHING APPLICATIONS

 SERIES: VXMG4 ✓ **Check Stock Online**

DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	LENGTH	PART NAME	nAc EDP	nAc Price
5/16	5/16	1/2		2	0.000	stub	VXMG4-1010-NRS	15772	37.10
5/16	5/16	1/2		2	0.015	stub	VXMG4-1010-R015S	15773	37.10
5/16	5/16	1/2		2	0.030	stub	VXMG4-1010-R030S	15774	37.10
5/16	5/16	13/16		2-1/2	SQ	std	VXMG4-1010-NR	15775	38.60
5/16	5/16	13/16		2-1/2	.011 X 45°	std	VXMG4-1010	13109	38.60
5/16	5/16	13/16		2-1/2	0.015	std	VXMG4-1010-R015	15777	38.60
5/16	5/16	13/16		2-1/2	0.030	std	VXMG4-1010-R030	15779	38.60
5/16	5/16	1-1/8		3	0.000	long	VXMG4-1010-NRL	15781	44.50
5/16	5/16	1-1/8		3	0.015	long	VXMG4-1010-R015L	15783	44.50
5/16	5/16	1-1/8		3	0.030	long	VXMG4-1010-R030L	15785	44.50
3/8	3/8	1/2		2	SQ	stub	VXMG4-1212-NRS	15787	42.98
3/8	3/8	1/2		2	0.015	stub	VXMG4-1212-R015S	15789	42.98
3/8	3/8	1/2		2	0.030	stub	VXMG4-1212-R030S	15791	42.98
3/8	3/8	1/2	1-1/8	3	0.015	ext neck	VXMG4-1212-R015N1	15803	58.03
3/8	3/8	1/2	1-1/8	3	0.030	ext neck	VXMG4-1212-R030N1	15804	58.03
3/8	3/8	1/2	2-1/8	4	0.015	ext neck	VXMG4-1212-R015N2	15805	66.71
3/8	3/8	1/2	2-1/8	4	0.030	ext neck	VXMG4-1212-R030N2	15807	66.71
3/8	3/8	1/2	3-1/8	6	0.015	ext neck	VXMG4-1212-R015N3	15809	83.10
3/8	3/8	1/2	3-1/8	6	0.030	ext neck	VXMG4-1212-R030N3	15811	83.10
3/8	3/8	1/2	no neck	6	0.015	no neck	VXMG4-1212-R015NN	19112	69.34
3/8	3/8	1/2	no neck	6	0.030	no neck	VXMG4-1212-R030NN	19113	69.34
3/8	3/8	5/8		2	.011 X 45°	stub	VXMG4-1212-S	13110	42.98
3/8	3/8	1		2-1/2	SQ	std	VXMG4-1212-NR	15793	45.64
3/8	3/8	1		2-1/2	.011 X 45°	std	VXMG4-1212	13111	45.64
3/8	3/8	1		2-1/2	0.015	std	VXMG4-1212-R015	15795	45.64
3/8	3/8	1		2-1/2	0.030	std	VXMG4-1212-R030	15797	45.64
3/8	3/8	1-1/8		3	SQ	long	VXMG4-1212-NRL	15799	54.46
3/8	3/8	1-1/8		3	0.015	long	VXMG4-1212-R015L	15800	54.46
3/8	3/8	1-1/8		3	0.030	long	VXMG4-1212-R030L	15801	54.46
7/16	7/16	1		2-3/4	0.015	std	VXMG4-1414-R015	15813	61.01
7/16	7/16	1		2-3/4	0.030	std	VXMG4-1414-R030	15815	61.01
1/2	1/2	5/8		2-1/2	SQ	stub	VXMG4-1616-NRS	15817	66.90
1/2	1/2	5/8		2-1/2	.011 X 45°	stub	VXMG4-1616-S	13112	66.90
1/2	1/2	5/8		2-1/2	0.015	stub	VXMG4-1616-R015S	15819	66.90
1/2	1/2	5/8		2-1/2	0.030	stub	VXMG4-1616-R030S	15821	66.90
1/2	1/2	5/8		2-1/2	0.060	stub	VXMG4-1616-R060S	15822	66.90
1/2	1/2	5/8	1-1/2	4	0.015	ext neck	VXMG4-1616-R015N1	15847	121.98
1/2	1/2	5/8	1-1/2	4	0.030	ext neck	VXMG4-1616-R030N1	15849	121.98
1/2	1/2	5/8	1-1/2	4	0.060	ext neck	VXMG4-1616-R060N1	15851	121.98
1/2	1/2	5/8	2-1/4	4	0.015	ext neck	VXMG4-1616-R015N2	15853	121.98
1/2	1/2	5/8	2-1/4	4	0.030	ext neck	VXMG4-1616-R030N2	15855	121.98
1/2	1/2	5/8	2-1/4	4	0.060	ext neck	VXMG4-1616-R060N2	15857	121.98
1/2	1/2	5/8	3-3/8	6	0.015	ext neck	VXMG4-1616-R015N3	15858	150.38
1/2	1/2	5/8	3-3/8	6	0.030	ext neck	VXMG4-1616-R030N3	15859	150.38
1/2	1/2	5/8	3-3/8	6	0.060	ext neck	VXMG4-1616-R060N3	15860	150.38
1/2	1/2	5/8	no neck	6	0.015	no neck	VXMG4-1616-R015NN	19114	121.85
1/2	1/2	5/8	no neck	6	0.030	no neck	VXMG4-1616-R030NN	19115	121.85
1/2	1/2	5/8	no neck	6	0.060	no neck	VXMG4-1616-R060NN	19116	121.85





4 FLUTE • VARIABLE FLUTE - HP ROUGHING APPLICATIONS

[Check Stock Online](#)

SERIES: VXMG4



DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	LENGTH	PART NAME	nACo EDP	nACo Price
1/2	1/2	1		3	SQ	std	VXMG4-1616-NR	15823	73.44
1/2	1/2	1		3	.011 X 45°	std	VXMG4-1616	13113	73.44
1/2	1/2	1		3	0.015	std	VXMG4-1616-R015	15825	73.44
1/2	1/2	1		3	0.030	std	VXMG4-1616-R030	15827	73.44
1/2	1/2	1		3	0.060	std	VXMG4-1616-R060	15829	73.44
1/2	1/2	1-1/4		3	SQ	med	VXMG4-1616-NRM	15831	87.94
1/2	1/2	1-1/4		3	.011 X 45°	med	VXMG4-1616-M	19787	73.44
1/2	1/2	1-1/4		3	0.015	med	VXMG4-1616-R015M	15833	73.44
1/2	1/2	1-1/4		3	0.030	med	VXMG4-1616-R030M	15835	73.44
1/2	1/2	1-1/4		3	0.060	med	VXMG4-1616-R060M	15837	73.44
1/2	1/2	1-1/4		3	0.120	med	VXMG4-1616-R120M	11819	81.44
1/2	1/2	1-1/2		4	SQ	med/long	VXMG4-1616-NRML	19345	93.62
1/2	1/2	1-1/2		4	.011 X 45°	med/long	VXMG4-1616-ML	11657	93.62
1/2	1/2	1-1/2		4	0.030	med/long	VXMG4-1616-R030ML	19346	93.62
1/2	1/2	1-1/2		4	0.060	med/long	VXMG4-1616-R060ML	19347	93.62
1/2	1/2	2		4	0.000	long	VXMG4-1616-NRL	15839	93.62
1/2	1/2	2		4	0.015	long	VXMG4-1616-R015L	15841	93.62
1/2	1/2	2		4	0.030	long	VXMG4-1616-R030L	15843	93.62
1/2	1/2	2		4	0.060	long	VXMG4-1616-R060L	15845	93.62
5/8	5/8	3/4		3	SQ	stub	VXMG4-2020-NRS	15861	121.30
5/8	5/8	3/4		3	.022 X 45°	stub	VXMG4-2020-S	13114	121.30
5/8	5/8	3/4		3	0.030	stub	VXMG4-2020-R030S	15862	121.30
5/8	5/8	3/4		3	0.060	stub	VXMG4-2020-R060S	15863	121.30
5/8	5/8	3/4		3	0.090	stub	VXMG4-2020-R090S	15864	121.30
5/8	5/8	3/4	1-5/8	5	0.030	ext neck	VXMG4-2020-R030N1	15874	209.07
5/8	5/8	3/4	1-5/8	5	0.060	ext neck	VXMG4-2020-R060N1	15875	209.07
5/8	5/8	3/4	1-5/8	5	0.090	ext neck	VXMG4-2020-R090N1	15876	209.07
5/8	5/8	3/4	2-3/8	5	0.060	ext neck	VXMG4-2020-R060N2	15877	209.07
5/8	5/8	3/4	3-3/8	6	0.060	ext neck	VXMG4-2020-R060N3	15878	188.66
5/8	5/8	3/4	no neck	6	0.060	no neck	VXMG4-2020-R060NN	19117	188.66
5/8	5/8	1-1/4		3-1/2	SQ	std	VXMG4-2020-NR	15865	127.98
5/8	5/8	1-1/4		3-1/2	.022 X 45°	std	VXMG4-2020	13115	127.98
5/8	5/8	1-1/4		3-1/2	0.030	std	VXMG4-2020-R030	15866	127.98
5/8	5/8	1-1/4		3-1/2	0.060	std	VXMG4-2020-R060	15867	127.98
5/8	5/8	1-1/4		3-1/2	0.090	std	VXMG4-2020-R090	15868	127.98
5/8	5/8	2-1/4		5	SQ	long	VXMG4-2020-NRL	15869	161.20
5/8	5/8	2-1/4		5	0.030	long	VXMG4-2020-R030L	15870	161.20
5/8	5/8	2-1/4		5	0.060	long	VXMG4-2020-R060L	15871	161.20
5/8	5/8	3-1/4		6	0.030	xl	VXMG4-2020-R030E	15872	188.66
5/8	5/8	3-1/4		6	0.060	xl	VXMG4-2020-R060E	15873	188.66
3/4	3/4	7/8		3	SQ	stub	VXMG4-2424-NRS	15879	192.60
3/4	3/4	7/8		3	.022 X 45°	stub	VXMG4-2424-S	13116	179.40
3/4	3/4	7/8		3	0.030	stub	VXMG4-2424-R030S	15880	179.40
3/4	3/4	7/8		3	0.060	stub	VXMG4-2424-R060S	15881	179.40
3/4	3/4	7/8		3	0.090	stub	VXMG4-2424-R090S	15883	179.40
3/4	3/4	7/8		3	0.120	stub	VXMG4-2424-R120S	15885	179.40

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4 FLUTE • VARIABLE FLUTE - HP ROUGHING APPLICATIONS

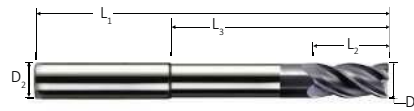
SERIES: VXM4 [Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	LENGTH	PART NAME	nAco EDP	nAco Price
3/4	3/4	7/8	2	5	0.030	ext neck	VXM4-2424-R030N1	16051	244.80
3/4	3/4	7/8	2	5	0.060	ext neck	VXM4-2424-R060N1	16052	244.80
3/4	3/4	7/8	2	5	0.090	ext neck	VXM4-2424-R090N1	16053	244.80
3/4	3/4	7/8	2	5	0.120	ext neck	VXM4-2424-R120N1	16054	244.80
3/4	3/4	7/8	2-1/2	5	0.030	ext neck	VXM4-2424-R030N2	16056	244.80
3/4	3/4	7/8	2-1/2	5	0.060	ext neck	VXM4-2424-R060N2	16057	244.80
3/4	3/4	7/8	2-1/2	5	0.090	ext neck	VXM4-2424-R090N2	16058	244.80
3/4	3/4	7/8	2-1/2	5	0.120	ext neck	VXM4-2424-R120N2	16059	244.80
3/4	3/4	7/8	3-3/8	6	0.030	ext neck	VXM4-2424-R030N3	16106	266.33
3/4	3/4	7/8	3-3/8	6	0.060	ext neck	VXM4-2424-R060N3	16107	266.33
3/4	3/4	7/8	3-3/8	6	0.090	ext neck	VXM4-2424-R090N3	16108	266.33
3/4	3/4	7/8	3-3/8	6	0.120	ext neck	VXM4-2424-R120N3	16109	266.33
3/4	3/4	7/8	no neck	6	0.030	no neck	VXM4-2424-R030NN	19118	252.04
3/4	3/4	7/8	no neck	6	0.060	no neck	VXM4-2424-R060NN	19119	252.04
3/4	3/4	7/8	no neck	6	0.090	no neck	VXM4-2424-R090NN	19120	252.04
3/4	3/4	7/8	no neck	6	0.120	no neck	VXM4-2424-R120NN	19121	252.04
3/4	3/4	1-1/2		4	SQ	std	VXM4-2424-NR	15887	192.60
3/4	3/4	1-1/2		4	.022 X 45°	std	VXM4-2424	13117	192.60
3/4	3/4	1-1/2		4	0.030	std	VXM4-2424-R030	15889	192.60
3/4	3/4	1-1/2		4	0.060	std	VXM4-2424-R060	15891	192.60
3/4	3/4	1-1/2		4	0.090	std	VXM4-2424-R090	16014	192.60
3/4	3/4	1-1/2		4	0.120	std	VXM4-2424-R120	16015	192.60
3/4	3/4	2-1/4		5	SQ	long	VXM4-2424-NRL	16016	228.68
3/4	3/4	2-1/4		5	0.030	long	VXM4-2424-R030L	16018	228.68
3/4	3/4	2-1/4		5	0.060	long	VXM4-2424-R060L	16019	228.68
3/4	3/4	2-1/4		5	0.090	long	VXM4-2424-R090L	16020	228.68
3/4	3/4	2-1/4		5	0.120	long	VXM4-2424-R120L	16021	228.68
3/4	3/4	3		6	SQ	xl	VXM4-2424-NRE	16022	268.07
3/4	3/4	3		6	0.030	xl	VXM4-2424-R030E	16024	268.07
3/4	3/4	3		6	0.060	xl	VXM4-2424-R060E	16030	268.07
3/4	3/4	3		6	0.090	xl	VXM4-2424-R090E	16048	268.07
3/4	3/4	3		6	0.120	xl	VXM4-2424-R120E	16049	268.07
1	1	1-1/2		4	SQ	std	VXM4-3232-NR	16280	294.49
1	1	1-1/2		4	.022 X 45°	std	VXM4-3232	13118	294.49
1	1	1-1/2		4	0.030	std	VXM4-3232-R030	16313	294.49
1	1	1-1/2		4	0.060	std	VXM4-3232-R060	16314	294.49
1	1	1-1/2		4	0.090	std	VXM4-3232-R090	16316	294.49
1	1	1-1/2		4	0.120	std	VXM4-3232-R120	16431	294.49
1	1	1-1/2	2-1/4	5	0.030	ext neck	VXM4-3232-R030N1	16538	350.24
1	1	1-1/2	2-1/4	5	0.060	ext neck	VXM4-3232-R060N1	16539	350.24
1	1	1-1/2	2-1/4	5	0.090	ext neck	VXM4-3232-R090N1	16589	350.24
1	1	1-1/2	2-1/4	5	0.120	ext neck	VXM4-3232-R120N1	16598	350.24
1	1	1-1/2	2-5/8	5	0.030	ext neck	VXM4-3232-R030N2	16599	350.24
1	1	1-1/2	2-5/8	5	0.060	ext neck	VXM4-3232-R060N2	16604	350.24
1	1	1-1/2	2-5/8	5	0.090	ext neck	VXM4-3232-R090N2	16612	350.24
1	1	1-1/2	2-5/8	5	0.120	ext neck	VXM4-3232-R120N2	16616	350.24



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4 FLUTE • VARIABLE FLUTE - HP ROUGHING APPLICATIONS

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SERIES: VXM4



DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	LENGTH	PART NAME	nACo EDP	nACo Price
1	1	1-1/2	3-3/8	6	0.030	ext neck	VXMG4-3232-R030N3	16617	419.92
1	1	1-1/2	3-3/8	6	0.060	ext neck	VXMG4-3232-R060N3	16622	419.92
1	1	1-1/2	3-3/8	6	0.090	ext neck	VXMG4-3232-R090N3	16623	419.92
1	1	1-1/2	3-3/8	6	0.120	ext neck	VXMG4-3232-R120N3	16624	419.92
1	1	1-1/2	4-1/8	6	0.030	ext neck	VXMG4-3232-R030N4	16625	419.92
1	1	1-1/2	4-1/8	6	0.060	ext neck	VXMG4-3232-R060N4	16626	419.92
1	1	1-1/2	4-1/8	6	0.090	ext neck	VXMG4-3232-R090N4	16627	419.92
1	1	1-1/2	4-1/8	6	0.120	ext neck	VXMG4-3232-R120N4	16628	419.92
1	1	1-1/2	no neck	6	0.030	no neck	VXMG4-3232-R030NN	19122	392.48
1	1	1-1/2	no neck	6	0.060	no neck	VXMG4-3232-R060NN	19123	392.48
1	1	1-1/2	no neck	6	0.090	no neck	VXMG4-3232-R090NN	19124	392.48
1	1	1-1/2	no neck	6	0.120	no neck	VXMG4-3232-R120NN	19125	392.48
1	1	2-1/4		5	SQ	long	VXMG4-3232-NRL	16437	332.74
1	1	2-1/4		5	0.030	long	VXMG4-3232-R030L	16438	332.74
1	1	2-1/4		5	0.060	long	VXMG4-3232-R060L	16439	332.74
1	1	2-1/4		5	0.090	long	VXMG4-3232-R090L	16457	332.74
1	1	2-1/4		5	0.120	long	VXMG4-3232-R120L	16459	332.74
1	1	3		6	0.030	xl	VXMG4-3232-R030E	16464	428.54
1	1	3		6	0.060	xl	VXMG4-3232-R060E	16467	428.54
1	1	3		6	0.090	xl	VXMG4-3232-R090E	16468	428.54
1	1	3		6	0.120	xl	VXMG4-3232-R120E	16469	428.54

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○ **HAIMER SAFE LOCK™** This licensed system offers the pull out protection for your round shank tools! The shanks have helical grooves ground into our shanks. Combined with the proper tool holding system, this technology prevents the tool from pulling out or spinning while undergoing extreme machining applications.



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FERROUS ALLOYS

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- ▶ Geometry designed for reducing chatter, universal machining operations
- ▶ Ideal for use on Steel and Stainless Alloys and Cast Iron
- ▶ Proprietary nAco coating provides extended tool life over conventional coatings
- ▶ Excellent for heavy cuts, deep slotting and long axial depth profiling

SERIES: VXMg4-M_M_

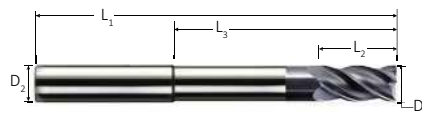
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DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	LENGTH	PART NAME	nAco EDP	nAco Price
1.5mm	3mm	3mm		38mm	SQ	std	VXMg4-M3M1.5-NR	H6005	21.64
1.5mm	3mm	3mm		38mm	0.25mm	std	VXMg4-M3M1.5-R0.25	H6006	22.35
2mm	3mm	4mm		38mm	SQ	std	VXMg4-M3M2-NR	H6007	21.64
2mm	3mm	4mm		38mm	0.25mm	std	VXMg4-M3M2-R0.25	H6008	22.35
2.5mm	3mm	5mm		38mm	SQ	std	VXMg4-M3M2.5-NR	H6009	21.64
2.5mm	3mm	5mm		38mm	0.25mm	std	VXMg4-M3M2.5-R0.25	H6010	22.35
3mm	3mm	6mm		38mm	SQ	stub	VXMg4-M3M3-NRS	H6011	17.49
3mm	3mm	6mm		38mm	0.25mm	stub	VXMg4-M3M3-R0.25S	H6012	18.09
3mm	3mm	12mm		38mm	SQ	std	VXMg4-M3M3-NR	H6013	18.67
3mm	3mm	12mm		38mm	0.25mm	std	VXMg4-M3M3-R0.25	H6014	19.27
3mm	6mm	12mm		63mm	SQ	std	VXMg4-M6M3-NR	14680	32.10
3mm	6mm	12mm		63mm	0.25mm x 45°	std	VXMg4-M6M3	11682	32.10
3mm	6mm	12mm		63mm	0.25mm	std	VXMg4-M6M3-R0.25	H6015	32.10
3mm	6mm	12mm		63mm	0.5mm	std	VXMg4-M6M3-R0.5	H6016	32.10
4mm	4mm	14mm		51mm	SQ	std	VXMg4-M4M4-NR	14681	22.41
4mm	4mm	14mm		51mm	0.25mm x 45°	std	VXMg4-M4M4	13416	22.41
4mm	4mm	14mm		51mm	0.25mm	std	VXMg4-M4M4-R0.25	H6017	22.41
4mm	4mm	14mm		51mm	0.5mm	std	VXMg4-M4M4-R0.5	14450	22.41
4mm	6mm	14mm		63mm	0.25mm x 45°	std	VXMg4-M6M4	11683	32.10
4mm	6mm	14mm		63mm	0.25mm	std	VXMg4-M6M4-R0.25	H6018	32.10
4mm	6mm	14mm		63mm	0.5mm	std	VXMg4-M6M4-R0.5	H6019	32.10
5mm	5mm	20mm		51mm	SQ	std	VXMg4-M5M5-NR	14682	26.81
5mm	5mm	20mm		51mm	0.25mm x 45°	std	VXMg4-M5M5	13417	26.81
5mm	5mm	20mm		51mm	0.25mm	std	VXMg4-M5M5-R0.25	H6020	25.77
5mm	5mm	20mm		51mm	0.5mm	std	VXMg4-M5M5-R0.5	14451	25.77
6mm	6mm	12mm	30mm	100mm	0.25mm	ext neck	VXMg4-M6M6-R0.25N1	H6021	47.30
6mm	6mm	12mm	30mm	100mm	0.50mm	ext neck	VXMg4-M6M6-R0.5N1	H6022	47.30
6mm	6mm	12mm	30mm	100mm	1.0mm	ext neck	VXMg4-M6M6-R1.0N1	H6023	47.30
6mm	6mm	20mm		63mm	SQ	std	VXMg4-M6M6-NR	14683	32.09
6mm	6mm	20mm		63mm	0.25mm x 45°	std	VXMg4-M6M6	13418	32.09
6mm	6mm	20mm		63mm	0.25mm	std	VXMg4-M6M6-R0.25	H6024	32.09
6mm	6mm	20mm		63mm	0.5mm	std	VXMg4-M6M6-R0.5	14452	32.09
6mm	6mm	20mm		63mm	1.0mm	std	VXMg4-M6M6-R1.0	H6025	32.09
6mm	6mm	20mm	32mm	75mm	0.5mm	ext neck	VXMg4-M6M6-R0.5N	14453	36.55
6mm	6mm	24mm		75mm	0.5mm	long	VXMg4-M6M6-R0.5L	14454	36.55

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✓ **Check Stock Online**

SERIES: VXM4-M_M_



DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	LENGTH	PART NAME	nACo EDP	nACo Price
8mm	8mm	16mm	40mm	100mm	0.5mm	ext neck	VXM4-M8M8-R0.5N1	H6026	58.98
8mm	8mm	16mm	40mm	100mm	1.0mm	ext neck	VXM4-M8M8-R1.0N1	H6027	58.98
8mm	8mm	16mm	40mm	100mm	2.0mm	ext neck	VXM4-M8M8-R2.0N1	H6028	58.98
8mm	8mm	20mm		63mm	SQ	std	VXM4-M8M8-NR	14684	39.86
8mm	8mm	20mm		63mm	0.25mm x 45°	std	VXM4-M8M8	13419	39.86
8mm	8mm	20mm		63mm	0.5mm	std	VXM4-M8M8-R0.5	14455	39.86
8mm	8mm	20mm		63mm	1.0mm	std	VXM4-M8M8-R1.0	H6029	39.86
8mm	8mm	20mm		63mm	1.5mm	std	VXM4-M8M8-R1.5	H6030	39.86
8mm	8mm	20mm		63mm	2.0mm	std	VXM4-M8M8-R2.0	H6031	39.86
8mm	8mm	20mm	32mm	75mm	0.5mm	ext neck	VXM4-M8M8-R0.5N	14456	45.41
8mm	8mm	32mm		75mm	0.5mm	long	VXM4-M8M8-R0.5L	14457	45.41
10mm	10mm	20mm		127mm	0.5mm	ext neck	VXM4-M10M10-R0.5N1	H6032	71.39
10mm	10mm	20mm		127mm	1.0mm	ext neck	VXM4-M10M10-R1.0N1	H6033	71.39
10mm	10mm	20mm		127mm	2.0mm	ext neck	VXM4-M10M10-R2.0N1	H6034	71.39
10mm	10mm	25mm		70mm	SQ	std	VXM4-M10M10-NR	14685	54.21
10mm	10mm	25mm		70mm	0.25mm x 45°	std	VXM4-M10M10	13420	54.21
10mm	10mm	25mm		70mm	0.5mm	std	VXM4-M10M10-R0.5	14458	54.21
10mm	10mm	25mm		70mm	1.0mm	std	VXM4-M10M10-R1.0	H6035	54.21
10mm	10mm	25mm		70mm	1.5mm	std	VXM4-M10M10-R1.5	H6036	54.21
10mm	10mm	25mm		70mm	2.0mm	std	VXM4-M10M10-R2.0	H6037	54.21
10mm	10mm	25mm	50mm	100mm	0.5mm	ext neck	VXM4-M10M10-R0.5N	14459	63.74
10mm	10mm	40mm		100mm	0.5mm	long	VXM4-M10M10-R0.5L	14460	63.74
12mm	12mm	25mm		76mm	SQ	std	VXM4-M12M12-NR	14686	74.79
12mm	12mm	25mm		76mm	0.25mm x 45°	std	VXM4-M12M12	13421	74.79
12mm	12mm	25mm		76mm	0.5mm	std	VXM4-M12M12-R0.5	14461	74.79
12mm	12mm	25mm		76mm	1.0mm	std	VXM4-M12M12-R1.0	14462	74.79
12mm	12mm	25mm		76mm	1.5mm	std	VXM4-M12M12-R1.5	H6038	74.79
12mm	12mm	25mm		76mm	2.0mm	std	VXM4-M12M12-R2.0	H6039	74.79
12mm	12mm	25mm		76mm	3.0mm	std	VXM4-M12M12-R3.0	H6040	74.79
12mm	12mm	25mm	50mm	100mm	0.5mm	ext neck	VXM4-M12M12-R0.5N	14463	94.92
12mm	12mm	25mm	60mm	150mm	0.5mm	ext neck	VXM4-M12M12-R0.5N1	H6041	148.23
12mm	12mm	25mm	60mm	150mm	1.0mm	ext neck	VXM4-M12M12-R1.0N1	H6042	148.23
12mm	12mm	25mm	60mm	150mm	2.0mm	ext neck	VXM4-M12M12-R2.0N1	H6043	148.23
12mm	12mm	25mm	60mm	150mm	3.0mm	ext neck	VXM4-M12M12-R3.0N1	H6044	148.23
12mm	12mm	48mm		100mm	0.5mm	long	VXM4-M12M12-R0.5L	14464	94.92
14mm	14mm	32mm		89mm	0.5mm x 45°	std	VXM4-M14M14	13422	124.66
14mm	14mm	32mm		89mm	0.5mm	std	VXM4-M14M14-R0.5	14465	124.66
14mm	14mm	32mm		89mm	1.0mm	std	VXM4-M14M14-R1.0	H6045	124.66
14mm	14mm	32mm		89mm	2.0mm	std	VXM4-M14M14-R2.0	H6046	124.66
16mm	16mm	32mm		89mm	SQ	std	VXM4-M16M16-NR	14687	134.81
16mm	16mm	32mm		89mm	0.5mm x 45°	std	VXM4-M16M16	13423	134.81
16mm	16mm	32mm		89mm	0.5mm	std	VXM4-M16M16-R0.5	14466	134.81
16mm	16mm	32mm		89mm	1.0mm	std	VXM4-M16M16-R1.0	14467	134.81
16mm	16mm	32mm		89mm	1.5mm	std	VXM4-M16M16-R1.5	14677	134.81
16mm	16mm	32mm		89mm	2.0mm	std	VXM4-M16M16-R2.0	14678	134.81
16mm	16mm	32mm		89mm	3.0mm	std	VXM4-M16M16-R3.0	14679	134.81

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SERIES: VXMG4-M_M_

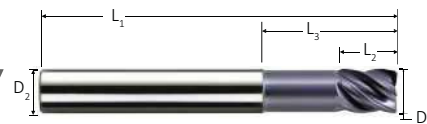
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DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	LENGTH	PART NAME	nACo EDP	nACo Price
16mm	16mm	32mm	65mm	127mm	0.5mm	ext neck	VXMG4-M16M16-R0.5N	14468	168.03
16mm	16mm	32mm	80mm	150mm	0.5mm	ext neck	VXMG4-M16M16-R0.5N1	H6047	196.88
16mm	16mm	32mm	80mm	150mm	1.0mm	ext neck	VXMG4-M16M16-R1.0N1	H6048	196.88
16mm	16mm	32mm	80mm	150mm	2.0mm	ext neck	VXMG4-M16M16-R2.0N1	H6049	196.88
16mm	16mm	32mm	80mm	150mm	3.0mm	ext neck	VXMG4-M16M16-R3.0N1	H6050	196.88
16mm	16mm	48mm		127mm	0.5mm	long	VXMG4-M16M16-R0.5L	14469	168.03
18mm	18mm	38mm		100mm	0.5mm x 45°	std	VXMG4-M18M18	13424	197.42
18mm	18mm	38mm		100mm	0.5mm	std	VXMG4-M18M18-R0.5	14470	197.42
18mm	18mm	38mm		100mm	1.0mm	std	VXMG4-M18M18-R1.0	H6051	197.42
18mm	18mm	38mm		100mm	2.0mm	std	VXMG4-M18M18-R2.0	H6052	197.42
20mm	20mm	38mm		100mm	SQ	std	VXMG4-M20M20-NR	14688	228.03
20mm	20mm	38mm		100mm	0.5mm x 45°	std	VXMG4-M20M20	13425	228.03
20mm	20mm	38mm		100mm	0.5mm	std	VXMG4-M20M20-R0.5	14471	228.03
20mm	20mm	38mm		100mm	1.0mm	std	VXMG4-M20M20-R1.0	H6053	228.03
20mm	20mm	38mm		100mm	1.5mm	std	VXMG4-M20M20-R1.5	H6054	228.03
20mm	20mm	38mm		100mm	2.0mm	std	VXMG4-M20M20-R2.0	H6055	228.03
20mm	20mm	38mm		100mm	3.0mm	std	VXMG4-M20M20-R3.0	H6056	228.03
20mm	20mm	38mm	65mm	127mm	0.5mm	ext neck	VXMG4-M20M20-R0.5N	14472	264.11
20mm	20mm	38mm	100mm	150mm	0.5mm	ext neck	VXMG4-M20M20-R0.5N1	H6057	291.63
20mm	20mm	38mm	100mm	150mm	1.00mm	ext neck	VXMG4-M20M20-R1.0N1	H6058	291.63
20mm	20mm	38mm	100mm	150mm	3.0mm	ext neck	VXMG4-M20M20-R3.0N1	H6059	291.63
20mm	20mm	60mm		127mm	0.5mm	long	VXMG4-M20M20-R0.5L	14473	264.11
25mm	25mm	38mm		100mm	0.5mm x 45°	std	VXMG4-M25M25	13426	317.06
25mm	25mm	38mm		100mm	0.5mm	std	VXMG4-M25M25-R0.5	14474	317.06
25mm	25mm	38mm		100mm	1.0mm	std	VXMG4-M25M25-R1.0	H6060	317.06
25mm	25mm	38mm		100mm	2.0mm	std	VXMG4-M25M25-R2.0	H6061	317.06



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5 FLUTE • VARIABLE FLUTE - HP ROUGHING APPLICATIONS



- Geometry designed for reducing chatter, universal machining operations
- Ideal for use on Steel and Stainless Alloys and Cast Iron
- Proprietary nAco coating provides extended tool life over conventional coatings
- Excellent for heavy cuts, deep slotting and long axial depth profiling

SERIES: VXMG5 [✓ Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	LENGTH	PART NAME	nAco EDP	nAco Price
1/16	1/8	1/8		1-1/2	SQ	std	VXMG5-402-NR	H6397	21.64
1/16	1/8	1/8		1-1/2	0.010	std	VXMG5-402-R010	H6398	22.35
3/32	1/8	3/16		1-1/2	SQ	std	VXMG5-403-NR	H6399	21.64
3/32	1/8	3/16		1-1/2	0.010	std	VXMG5-403-R010	H6400	22.35
1/8	1/8	3/16	no neck	2	0.015	no neck	VXMG5-404-R015NN	19352	18.67
1/8	1/8	1/4		1-1/2	SQ	stub	VXMG5-404-NRS	19348	17.49
1/8	1/8	1/4		1-1/2	0.015	stub	VXMG5-404-R015S	19349	17.49
1/8	1/8	1/2	3/4	2	SQ	std	VXMG5-404-NR	19350	18.67
1/8	1/8	1/2	3/4	2	0.015	std	VXMG5-404-R015	19351	18.67
3/16	3/16	1/4		1-1/2	SQ	stub	VXMG5-606-NRS	19353	20.18
3/16	3/16	1/4		1-1/2	0.015	stub	VXMG5-606-R015S	19354	20.18
3/16	3/16	1/4	no neck	3	0.015	no neck	VXMG5-606-R015NN	19357	26.75
3/16	3/16	5/8	7/8	2	SQ	std	VXMG5-606-NR	19355	22.52
3/16	3/16	5/8	7/8	2	0.015	std	VXMG5-606-R015	19356	22.52
1/4	1/4	3/8		2	SQ	stub	VXMG5-808-NRS	19358	25.16
1/4	1/4	3/8		2	0.015	stub	VXMG5-808-R015S	19359	25.16
1/4	1/4	3/8		2	0.030	stub	VXMG5-808-R030S	19361	25.16
1/4	1/4	3/8	1-1/8	3	0.015	ext neck	VXMG5-808-R015N2	19365	41.13
1/4	1/4	3/8	1-1/8	3	0.030	ext neck	VXMG5-808-R030N2	19366	41.13
1/4	1/4	3/8	no neck	4	0.015	no neck	VXMG5-808-R015NN	19367	37.79
1/4	1/4	3/8	no neck	4	0.030	no neck	VXMG5-808-R030NN	19368	37.79
1/4	1/4	3/4	1	2-1/2	SQ	std	VXMG5-808-NR	19362	29.33
1/4	1/4	3/4	1	2-1/2	0.015	std	VXMG5-808-R015	19363	29.33
1/4	1/4	3/4	1	2-1/2	0.030	std	VXMG5-808-R030	19364	29.33
5/16	5/16	1/2		2	SQ	stub	VXMG5-1010-NRS	19369	37.10
5/16	5/16	1/2		2	0.015	stub	VXMG5-1010-R015S	19370	37.10
5/16	5/16	1/2		2	0.030	stub	VXMG5-1010-R030S	19371	37.10
5/16	5/16	13/16	1-1/16	2-1/2	0.000	std	VXMG5-1010-NR	19372	38.60
5/16	5/16	13/16	1-1/16	2-1/2	0.015	std	VXMG5-1010-R015	19373	38.60
5/16	5/16	13/16	1-1/16	2-1/2	0.030	std	VXMG5-1010-R030	19374	38.60
3/8	3/8	1/2		2	SQ	stub	VXMG5-1212-NRS	19375	42.98
3/8	3/8	1/2		2	0.015	stub	VXMG5-1212-R015S	19376	42.98
3/8	3/8	1/2		2	0.030	stub	VXMG5-1212-R030S	19377	42.98
3/8	3/8	1/2	1-7/8	3	0.015	ext neck	VXMG5-1212-R015N1	19381	58.03
3/8	3/8	1/2	1-7/8	3	0.030	ext neck	VXMG5-1212-R030N1	19382	58.03
3/8	3/8	1/2	no neck	6	0.015	no neck	VXMG5-1212-R015NN	19383	69.34
3/8	3/8	1/2	no neck	6	0.030	no neck	VXMG5-1212-R030NN	19384	69.34

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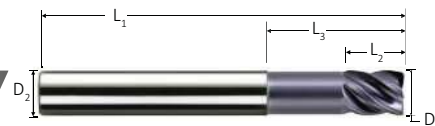
5 FLUTE • VARIABLE FLUTE - HP ROUGHING APPLICATIONS
SERIES: VXMGS ✓ **Check Stock Online**

DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	LENGTH	PART NAME	nACo EDP	nACo Price
3/8	3/8	1		2-1/2	SQ	std	VXMG5-1212-NR	19378	45.64
3/8	3/8	1		2-1/2	0.015	std	VXMG5-1212-R015	19379	45.64
3/8	3/8	1		2-1/2	0.030	std	VXMG5-1212-R030	19380	45.64
1/2	1/2	5/8		2-1/2	SQ	stub	VXMG5-1616-NRS	19385	66.90
1/2	1/2	5/8		2-1/2	0.015	stub	VXMG5-1616-R015S	19386	66.90
1/2	1/2	5/8		2-1/2	0.030	stub	VXMG5-1616-R030S	11653	66.90
1/2	1/2	5/8		2-1/2	0.060	stub	VXMG5-1616-R060S	19388	66.90
1/2	1/2	5/8	1-1/2	4	0.015	ext neck	VXMG5-1616-R015N1	19397	121.98
1/2	1/2	5/8	1-1/2	4	0.030	ext neck	VXMG5-1616-R030N1	19398	121.98
1/2	1/2	5/8	1-1/2	4	0.060	ext neck	VXMG5-1616-R060N1	19399	121.98
1/2	1/2	5/8	2-1/4	4	0.015	ext neck	VXMG5-1616-R015N2	19400	121.98
1/2	1/2	5/8	2-1/4	4	0.030	ext neck	VXMG5-1616-R030N2	19401	121.98
1/2	1/2	5/8	2-1/4	4	0.060	ext neck	VXMG5-1616-R060N2	19402	121.98
1/2	1/2	5/8	no neck	6	0.015	no neck	VXMG5-1616-R015NN	19403	121.85
1/2	1/2	5/8	no neck	6	0.030	no neck	VXMG5-1616-R030NN	19404	121.85
1/2	1/2	5/8	no neck	6	0.060	no neck	VXMG5-1616-R060NN	19405	121.85
1/2	1/2	1	1-1/4	3	SQ	std	VXMG5-1616-NR	19389	73.44
1/2	1/2	1	1-1/4	3	0.015	std	VXMG5-1616-R015	19390	73.44
1/2	1/2	1	1-1/4	3	0.030	std	VXMG5-1616-R030	11654	73.44
1/2	1/2	1	1-1/4	3	0.060	std	VXMG5-1616-R060	19392	73.44
1/2	1/2	1-1/4		3	SQ	med	VXMG5-1616-NRM	19393	73.44
1/2	1/2	1-1/4		3	0.015	med	VXMG5-1616-R015M	11809	73.44
1/2	1/2	1-1/4		3	0.030	med	VXMG5-1616-R030M	19395	73.44
1/2	1/2	1-1/4		3	0.060	med	VXMG5-1616-R060M	19396	73.44
5/8	5/8	3/4		3	SQ	stub	VXMG5-2020-NRS	19406	121.30
5/8	5/8	3/4		3	0.030	stub	VXMG5-2020-R030S	19407	121.30
5/8	5/8	3/4		3	0.060	stub	VXMG5-2020-R060S	19408	121.30
5/8	5/8	3/4		3	0.090	stub	VXMG5-2020-R090S	19409	121.30
5/8	5/8	3/4	1-5/8	5	0.030	ext neck	VXMG5-2020-R030N1	19414	209.07
5/8	5/8	3/4	1-5/8	5	0.060	ext neck	VXMG5-2020-R060N1	19415	209.07
5/8	5/8	3/4	1-5/8	5	0.090	ext neck	VXMG5-2020-R090N1	19416	209.07
5/8	5/8	3/4	2-3/8	5	0.060	ext neck	VXMG5-2020-R060N2	19417	209.07
5/8	5/8	3/4	no neck	6	0.060	no neck	VXMG5-2020-R060NN	19418	188.66
5/8	5/8	1-1/4	1-1/2	3-1/2	SQ	std	VXMG5-2020-NR	19410	127.98
5/8	5/8	1-1/4	1-1/2	3-1/2	0.030	std	VXMG5-2020-R030	19411	127.98
5/8	5/8	1-1/4	1-1/2	3-1/2	0.060	std	VXMG5-2020-R060	19412	127.98
5/8	5/8	1-1/4	1-1/2	3-1/2	0.090	std	VXMG5-2020-R090	19413	127.98
3/4	3/4	7/8		3	SQ	stub	VXMG5-2424-NRS	19419	179.40
3/4	3/4	7/8		3	0.030	stub	VXMG5-2424-R030S	19421	179.40
3/4	3/4	7/8		3	0.060	stub	VXMG5-2424-R060S	19422	179.40
3/4	3/4	7/8		3	0.090	stub	VXMG5-2424-R090S	19423	179.40
3/4	3/4	7/8		3	0.120	stub	VXMG5-2424-R120S	19424	179.40
3/4	3/4	7/8	2	5	0.030	ext neck	VXMG5-2424-R030N1	19432	244.80
3/4	3/4	7/8	2	5	0.060	ext neck	VXMG5-2424-R060N1	19433	244.80
3/4	3/4	7/8	2	5	0.090	ext neck	VXMG5-2424-R090N1	19434	244.80
3/4	3/4	7/8	2	5	0.120	ext neck	VXMG5-2424-R120N1	19435	244.80


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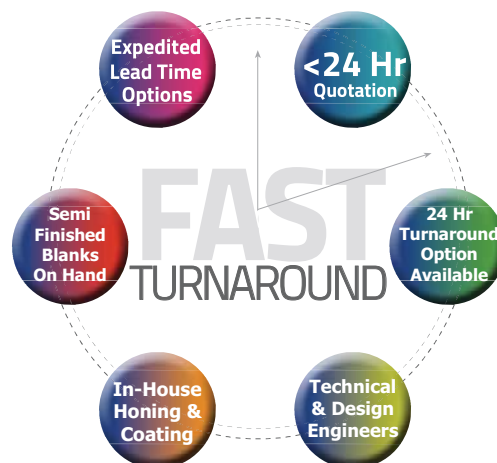
SERIES: VXMGM5

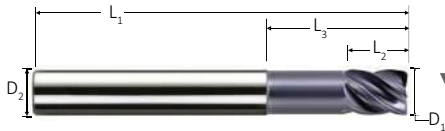


DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	LENGTH	PART NAME	nACo EDP	nACo Price
3/4	3/4	7/8	3-3/8	6	0.030	ext neck	VXMG5-2424-R030N3	19436	266.33
3/4	3/4	7/8	3-3/8	6	0.060	ext neck	VXMG5-2424-R060N3	19437	266.33
3/4	3/4	7/8	3-3/8	6	0.090	ext neck	VXMG5-2424-R090N3	19438	266.33
3/4	3/4	7/8	3-3/8	6	0.120	ext neck	VXMG5-2424-R120N3	19439	266.33
3/4	3/4	7/8	no neck	6	0.030	no neck	VXMG5-2424-R030NN	19440	252.04
3/4	3/4	7/8	no neck	6	0.060	no neck	VXMG5-2424-R060NN	19441	252.04
3/4	3/4	7/8	no neck	6	0.090	no neck	VXMG5-2424-R090NN	19442	252.04
3/4	3/4	7/8	no neck	6	0.120	no neck	VXMG5-2424-R120NN	19443	252.04
3/4	3/4	1-1/2	1-3/4	4	SQ	std	VXMG5-2424-NR	19425	192.60
3/4	3/4	1-1/2	1-3/4	4	0.015	std	VXMG5-2424-R015	12811	192.60
3/4	3/4	1-1/2	1-3/4	4	0.030	std	VXMG5-2424-R030	19426	192.60
3/4	3/4	1-1/2	1-3/4	4	0.060	std	VXMG5-2424-R060	19427	192.60
3/4	3/4	1-1/2	1-3/4	4	0.090	std	VXMG5-2424-R090	19428	192.60
3/4	3/4	1-1/2	1-3/4	4	0.120	std	VXMG5-2424-R120	19429	192.60
1	1	1-1/2	1-3/4	4	SQ	std	VXMG5-3232-NR	19444	294.49
1	1	1-1/2	1-3/4	4	0.030	std	VXMG5-3232-R030	19445	294.49
1	1	1-1/2	1-3/4	4	0.060	std	VXMG5-3232-R060	19446	294.49
1	1	1-1/2	1-3/4	4	0.090	std	VXMG5-3232-R090	19447	294.49
1	1	1-1/2	1-3/4	4	0.120	std	VXMG5-3232-R120	19448	294.49
1	1	1-1/2	2-1/4	5	0.030	ext neck	VXMG5-3232-R030N1	19449	350.24
1	1	1-1/2	2-1/4	5	0.060	ext neck	VXMG5-3232-R060N1	19450	350.24
1	1	1-1/2	2-1/4	5	0.090	ext neck	VXMG5-3232-R090N1	19451	350.24
1	1	1-1/2	2-1/4	5	0.120	ext neck	VXMG5-3232-R120N1	19452	350.24
1	1	1-1/2	3-3/8	6	0.030	ext neck	VXMG5-3232-R030N3	19453	419.92
1	1	1-1/2	3-3/8	6	0.060	ext neck	VXMG5-3232-R060N3	19454	419.92
1	1	1-1/2	3-3/8	6	0.090	ext neck	VXMG5-3232-R090N3	19455	419.92
1	1	1-1/2	3-3/8	6	0.120	ext neck	VXMG5-3232-R120N3	19456	419.92
1	1	1-1/2	no neck	6	0.030	no neck	VXMG5-3232-R030NN	19457	392.48
1	1	1-1/2	no neck	6	0.060	no neck	VXMG5-3232-R060NN	19458	392.48
1	1	1-1/2	no neck	6	0.090	no neck	VXMG5-3232-R090NN	19459	392.48
1	1	1-1/2	no neck	6	0.120	no neck	VXMG5-3232-R120NN	19460	392.48

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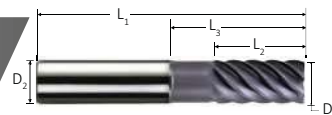
- ▶ Geometry designed for reducing chatter, universal machining operations
- ▶ Ideal for use on Steel and Stainless Alloys and Cast Iron
- ▶ Proprietary nAco coating provides extended tool life over conventional coatings
- ▶ Excellent for heavy cuts, deep slotting and long axial depth profiling

SERIES: VXM5-M_M_ [✓ Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	LENGTH	PART NAME	nAco EDP	nAco Price
1.5mm	3mm	3mm		38mm	SQ	std	VXM5-M3M1.5-NR	H6401	21.64
1.5mm	3mm	3mm		38mm	0.25mm	std	VXM5-M3M1.5-R0.25	H6402	22.35
2mm	3mm	4mm		38mm	SQ	std	VXM5-M3M2-NR	H6403	21.64
2mm	3mm	4mm		38mm	0.25mm	std	VXM5-M3M2-R0.25	H6404	22.35
2.5mm	3mm	5mm		38mm	SQ	std	VXM5-M3M2.5-NR	H6405	21.64
2.5mm	3mm	5mm		38mm	0.25mm	std	VXM5-M3M2.5-R0.25	H6406	22.35
3mm	3mm	6mm		38mm	SQ	stub	VXM5-M3M3-NRS	H6407	17.49
3mm	3mm	6mm		38mm	0.25mm	stub	VXM5-M3M3-R0.25S	H6408	18.09
3mm	3mm	12mm		38mm	SQ	std	VXM5-M3M3-NR	H6409	18.67
3mm	3mm	12mm		38mm	0.25mm	std	VXM5-M3M3-R0.25	H6410	19.27
4mm	4mm	14mm	20mm	51mm	SQ	std	VXM5-M4M4-NR	H6411	22.41
4mm	4mm	14mm	20mm	51mm	0.25mm	std	VXM5-M4M4-R0.25	15100	22.41
4mm	4mm	14mm	20mm	51mm	0.5mm	std	VXM5-M4M4-R0.5	H6412	22.41
5mm	5mm	16mm	22mm	51mm	0.25mm	std	VXM5-M5M5-R0.25	15101	25.77
5mm	5mm	16mm	22mm	51mm	0.5mm	std	VXM5-M5M5-R0.5	H6413	25.77
6mm	6mm	20mm	26mm	63mm	0.5mm	std	VXM5-M6M6-R0.5	15103	32.09
6mm	6mm	20mm	26mm	63mm	1.0mm	std	VXM5-M6M6-R1.0	H6414	32.09
6mm	6mm	20mm	no neck	100mm	0.5mm	no neck	VXM5-M6M6-NN	15104	45.65
8mm	8mm	20mm	26mm	63mm	0.5mm	std	VXM5-M8M8-R0.5	15105	39.86
8mm	8mm	20mm	26mm	63mm	1.0mm	std	VXM5-M8M8-R1.0	H6415	39.86
8mm	8mm	20mm	no neck	100mm	0.5mm	no neck	VXM5-M8M8-NN	15107	54.80
10mm	10mm	24mm	30mm	70mm	0.5mm	std	VXM5-M10M10-R0.5	15109	54.21
10mm	10mm	24mm	30mm	70mm	1.0mm	std	VXM5-M10M10-R1.0	H6416	54.21
10mm	10mm	24mm	no neck	100mm	0.5mm	no neck	VXM5-M10M10-NN	15110	63.74
12mm	12mm	25mm	31mm	76mm	0.5mm	std	VXM5-M12M12-R0.5	15111	74.79
12mm	12mm	25mm	31mm	76mm	1.0mm	std	VXM5-M12M12-R1.0	H6417	74.79
12mm	12mm	25mm	31mm	76mm	2.0mm	std	VXM5-M12M12-R2.0	H6418	74.79
12mm	12mm	25mm	no neck	100mm	0.5mm	no neck	VXM5-M12M12-NN	15112	94.92
14mm	14mm	32mm	38mm	89mm	0.5mm	std	VXM5-M14M14-R0.5	15113	124.66
14mm	14mm	32mm	38mm	89mm	1.0mm	std	VXM5-M14M14-R1.0	H6419	124.66
14mm	14mm	32mm	38mm	89mm	2.0mm	std	VXM5-M14M14-R2.0	H6420	124.66
16mm	16mm	32mm	38mm	89mm	0.5mm	std	VXM5-M16M16-R0.5	15114	134.81
16mm	16mm	32mm	38mm	89mm	1.0mm	std	VXM5-M16M16-R1.0	H6421	134.81
16mm	16mm	32mm	38mm	89mm	2.0mm	std	VXM5-M16M16-R2.0	H6422	134.81
16mm	16mm	32mm	no neck	100mm	0.5mm	no neck	VXM5-M16M16-NN	15115	168.03
18mm	18mm	36mm	42mm	100mm	0.5mm	std	VXM5-M18M18-R0.5	15117	197.42
18mm	18mm	36mm	42mm	100mm	1.0mm	std	VXM5-M18M18-R1.0	H6423	197.42
18mm	18mm	36mm	42mm	100mm	2.0mm	std	VXM5-M18M18-R2.0	H6424	197.42
20mm	20mm	36mm	42mm	100mm	1.0mm	std	VXM5-M20M20-R1.0	15118	228.03
20mm	20mm	36mm	42mm	100mm	2.0mm	std	VXM5-M20M20-R2.0	H6425	228.03
25mm	25mm	36mm	42mm	100mm	1.0mm	std	VXM5-M25M25-R1.0	15119	317.06
25mm	25mm	36mm	42mm	100mm	2.0mm	std	VXM5-M25M25-R2.0	H6426	317.06



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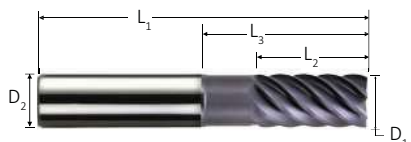
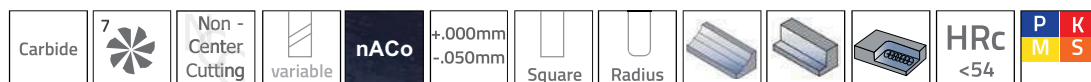
- ▶ Geometry designed for reducing chatter, utilizing maximum metal removal rates
- ▶ Additional flutes provide over 40% higher metal removal rates over 4 & 5 flute tools
- ▶ Extreme metal removal rates delivered at full flute length & 15% x D radial depth
- ▶ Proprietary nAco coating provides extended tool life over conventional coatings

SERIES: VXMg7 ✓ Check Stock Online

DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	LENGTH	PART NAME	nAco EDP	nAco Price
1/8	1/8	3/16		1-1/2	SQ	stub	VXMg7-404-NRS	H6571	20.98
1/8	1/8	3/16		1-1/2	0.010	stub	VXMg7-404-R010S	H6572	20.98
1/8	1/8	3/8		1-1/2	0.000	std	VXMg7-404-NR	H6573	22.40
1/8	1/8	3/8		1-1/2	0.010	std	VXMg7-404-R010	H6574	22.40
3/16	3/16	9/32		1-1/2	SQ	stub	VXMg7-606-NRS	14720	24.22
3/16	3/16	9/32		1-1/2	0.010	stub	VXMg7-606-R010S	H6575	24.22
3/16	3/16	9/16		2	0.000	std	VXMg7-606-NR	H6576	27.02
3/16	3/16	9/16		2	0.010	std	VXMg7-606-R010	H6577	27.02
1/4	1/4	3/8		2	SQ	stub	VXMg7-808-NRS	12241	30.19
1/4	1/4	3/8		2	0.015	stub	VXMg7-808-R015S	12242	30.19
1/4	1/4	3/8	2-1/8	4	0.015	ext neck	VXMg7-808-R015N3	12246	56.76
1/4	1/4	3/8	no neck	4	0.015	no neck	VXMg7-808-R015NN	12247	45.35
1/4	1/4	3/4	1	2-1/2	SQ	std	VXMg7-808-NR	12244	35.20
1/4	1/4	3/4	1	2-1/2	0.015	std	VXMg7-808-R015	12245	35.20
3/8	3/8	1/2		2	SQ	stub	VXMg7-1212-NRS	12248	51.58
3/8	3/8	1/2		2	0.015	stub	VXMg7-1212-R015S	12249	51.58
3/8	3/8	1/2	1-1/8	3	0.015	ext neck	VXMg7-1212-R015N1	12252	69.64
3/8	3/8	1/2	2-1/8	4	0.015	ext neck	VXMg7-1212-R015N2	12253	80.05
3/8	3/8	1		2-1/2	SQ	std	VXMg7-1212-NR	12250	54.77
3/8	3/8	1		2-1/2	0.015	std	VXMg7-1212-R015	12251	54.77
1/2	1/2	5/8		2-1/2	SQ	stub	VXMg7-1616-NRS	12254	80.28
1/2	1/2	5/8		2-1/2	0.015	stub	VXMg7-1616-R015S	12255	80.28
1/2	1/2	5/8	1-1/2	4	0.015	ext neck	VXMg7-1616-R015N1	12260	146.38
1/2	1/2	5/8	2-1/4	4	0.015	ext neck	VXMg7-1616-R015N2	12261	146.38
1/2	1/2	1	1-1/4	3	SQ	std	VXMg7-1616-NR	12256	88.13
1/2	1/2	1	1-1/4	3	0.015	std	VXMg7-1616-R015	11805	88.13
1/2	1/2	1	1-1/4	3	0.030	std	VXMg7-1616-R030	11797	88.13
1/2	1/2	1-1/4		3	SQ	med	VXMg7-1616-NRM	12257	88.13
1/2	1/2	1-1/4		3	0.015	med	VXMg7-1616-R015M	12258	88.13
1/2	1/2	1-1/4		3	0.030	med	VXMg7-1616-R030M	12259	88.13
5/8	5/8	3/4		3	SQ	stub	VXMg7-2020-NRS	12262	145.56
5/8	5/8	3/4		3	0.030	stub	VXMg7-2020-R030S	12263	145.56
5/8	5/8	3/4	1-5/8	5	0.030	ext neck	VXMg7-2020-R030N1	12267	250.88
5/8	5/8	1-1/4	1-1/2	3-1/2	SQ	std	VXMg7-2020-NR	12264	153.58
5/8	5/8	1-1/4	1-1/2	3-1/2	0.030	std	VXMg7-2020-R030	12265	153.58
3/4	3/4	7/8		3	SQ	stub	VXMg7-2424-NRS	12269	215.28
3/4	3/4	7/8		3	0.030	stub	VXMg7-2424-R030S	12271	215.28
3/4	3/4	7/8	2	5	0.030	ext neck	VXMg7-2424-R030N1	12277	293.76
3/4	3/4	1-1/2	1-3/4	4	SQ	std	VXMg7-2424-NR	12273	231.12
3/4	3/4	1-1/2	1-3/4	4	0.030	std	VXMg7-2424-R030	12275	231.12
1	1	1-1/2	1-3/4	4	SQ	std	VXMg7-3232-NR	12283	353.39
1	1	1-1/2	1-3/4	4	0.030	std	VXMg7-3232-R030	12287	353.39

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7 FLUTE • VARIABLE FL-SEMI ROUGHING & FINISHING APPLICATIONS



- Geometry designed for reducing chatter, utilizing maximum metal removal rates
- Additional flutes provide over 40% higher metal removal rates over 4 & 5 flute tools
- Extreme metal removal rates delivered at full flute length & 15% x D radial depth
- Proprietary nACo coating provides extended tool life over conventional coatings

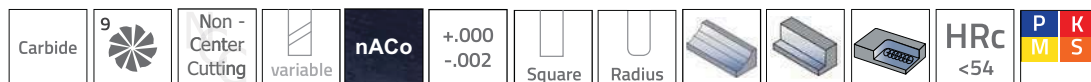


SERIES: VXM7-M_M_ [✓ Check Stock Online](#)

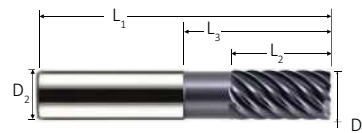
DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	LENGTH	PART NAME	nACo EDP	nACo Price
3mm	3mm	6mm		38mm	SQ	stub	VXM7-M3M3-NRS	H6578	20.99
3mm	3mm	6mm		38mm	0.25mm	stub	VXM7-M3M3-R0.25S	H6579	21.71
3mm	3mm	12mm		38mm	SQ	std	VXM7-M3M3-NR	H6580	22.40
3mm	3mm	12mm		38mm	0.25mm	std	VXM7-M3M3-R0.25	H6581	23.12
4mm	4mm	12mm		51mm	0.0mm	std	VXM7-M4M4-NR	H6582	26.89
4mm	4mm	12mm		51mm	0.25mm	std	VXM7-M4M4-R0.25	H6583	26.89
6mm	6mm	20mm	26mm	63mm	SQ	std	VXM7-M6M6-NR	15169	38.51
6mm	6mm	20mm	26mm	63mm	0.5mm	std	VXM7-M6M6-R0.5	15120	38.51
6mm	6mm	20mm	no neck	100mm	0.5mm	no neck	VXM7-M6M6-NN	15121	54.78
8mm	8mm	20mm	26mm	63mm	SQ	std	VXM7-M8M8-NR	15171	47.83
8mm	8mm	20mm	26mm	63mm	0.5mm	std	VXM7-M8M8-R0.5	15122	47.83
8mm	8mm	20mm	26mm	63mm	1.0mm	std	VXM7-M8M8-R1.0	H6584	47.83
8mm	8mm	20mm	no neck	100mm	0.5mm	no neck	VXM7-M8M8-NN	15123	65.76
10mm	10mm	24mm	30mm	70mm	SQ	std	VXM7-M10M10-NR	15173	65.05
10mm	10mm	24mm	30mm	70mm	0.5mm	std	VXM7-M10M10-R0.5	15124	65.05
10mm	10mm	24mm	30mm	70mm	1.0mm	std	VXM7-M10M10-R1.0	H6585	65.05
10mm	10mm	24mm	30mm	70mm	2.0mm	std	VXM7-M10M10-R2.0	H6658	65.05
10mm	10mm	24mm	no neck	100mm	0.5mm	no neck	VXM7-M10M10-NN	15125	76.49
12mm	12mm	25mm	31mm	76mm	SQ	std	VXM7-M12M12-NR	15175	89.75
12mm	12mm	25mm	31mm	76mm	0.5mm	std	VXM7-M12M12-R0.5	15126	89.75
12mm	12mm	25mm	31mm	76mm	1.0mm	std	VXM7-M12M12-R1.0	15605	89.75
12mm	12mm	25mm	31mm	76mm	2.0mm	std	VXM7-M12M12-R2.0	14795	89.75
12mm	12mm	25mm	no neck	100mm	0.5mm	no neck	VXM7-M12M12-NN	15127	113.90
14mm	14mm	32mm	38mm	89mm	SQ	std	VXM7-M14M14-NR	15177	149.59
14mm	14mm	32mm	38mm	89mm	0.5mm	std	VXM7-M14M14-R0.5	15128	149.59
14mm	14mm	32mm	38mm	89mm	1.0mm	std	VXM7-M14M14-R1.0	H6586	149.59
16mm	16mm	32mm	38mm	89mm	SQ	std	VXM7-M16M16-NR	15179	161.77
16mm	16mm	32mm	38mm	89mm	0.5mm	std	VXM7-M16M16-R0.5	15129	161.77
16mm	16mm	32mm	38mm	89mm	1.0mm	std	VXM7-M16M16-R1.0	H6587	161.77
16mm	16mm	32mm	38mm	89mm	2.0mm	std	VXM7-M16M16-R2.0	H6588	161.77
16mm	16mm	32mm	no neck	100mm	0.5mm	no neck	VXM7-M16M16-NN	15130	201.64
18mm	18mm	36mm	42mm	100mm	SQ	std	VXM7-M18M18-NR	15181	236.90
18mm	18mm	36mm	42mm	100mm	0.5mm	std	VXM7-M18M18-R0.5	15131	236.90
18mm	18mm	36mm	42mm	100mm	1.0mm	std	VXM7-M18M18-R1.0	H6589	236.90
20mm	20mm	36mm	42mm	100mm	SQ	std	VXM7-M20M20-NR	15183	273.64
20mm	20mm	36mm	42mm	100mm	0.5mm	std	VXM7-M20M20-R0.5	H6590	273.64
20mm	20mm	36mm	42mm	100mm	1.0mm	std	VXM7-M20M20-R1.0	15132	273.64
20mm	20mm	36mm	42mm	100mm	2.0mm	std	VXM7-M20M20-R2.0	H6591	273.64
20mm	20mm	36mm	42mm	100mm	3.0mm	std	VXM7-M20M20-R3.0	H6592	273.64
25mm	25mm	36mm	42mm	100mm	SQ	std	VXM7-M25M25-NR	15185	380.47
25mm	25mm	36mm	42mm	100mm	0.5mm	std	VXM7-M25M25-R0.5	H6593	380.47
25mm	25mm	36mm	42mm	100mm	1.0mm	std	VXM7-M25M25-R1.0	15133	380.47
25mm	25mm	36mm	42mm	100mm	3.0mm	std	VXM7-M25M25-R3.0	H6594	380.47

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9 FLUTE • VARIABLE FL - OPTIMUM FINE FINISH PROFILING APPLICATION



- › Designed to deliver outstanding surface finishes, utilizing maximum metal removal rates
- › Extreme metal removal rates delivered at full flute length & 5% x D radial depth
- › Proprietary nAco coating provides extended tool life over conventional coatings
- › Ideal for finishing tight tolerance walls

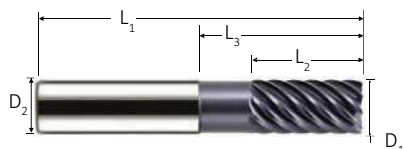
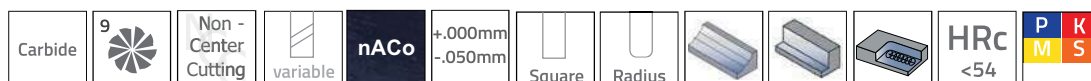


SERIES: **VXMG9** ✓ **Check Stock Online**

DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	LENGTH	PART NAME	nAco EDP	nAco Price
3/16	3/16	9/32		1-1/2	SQ	stub	VXMG9-606-NRS	H6595	26.24
3/16	3/16	9/32		1-1/2	0.010	stub	VXMG9-606-R010S	H6596	26.24
3/16	3/16	9/16		2	SQ	std	VXMG9-606-NR	H6597	29.28
3/16	3/16	9/16		2	0.010	std	VXMG9-606-R010	H6598	29.29
1/4	1/4	3/8		2	SQ	stub	VXMG9-808-NRS	12288	32.71
1/4	1/4	3/8		2	0.015	stub	VXMG9-808-R015S	12289	32.71
1/4	1/4	3/8	2-1/8	4	0.015	ext neck	VXMG9-808-R015N3	12302	61.49
1/4	1/4	3/8	no neck	4	0.015	no neck	VXMG9-808-R015NN	12303	49.13
1/4	1/4	3/4	1	2-1/2	SQ	std	VXMG9-808-NR	12290	38.13
1/4	1/4	3/4	1	2-1/2	0.015	std	VXMG9-808-R015	12291	38.13
3/8	3/8	1/2		2	SQ	stub	VXMG9-1212-NRS	12304	55.87
3/8	3/8	1/2		2	0.015	stub	VXMG9-1212-R015S	12305	55.87
3/8	3/8	1/2	1-1/8	3	0.015	ext neck	VXMG9-1212-R015N1	12317	75.44
3/8	3/8	1/2	2-1/8	4	0.015	ext neck	VXMG9-1212-R015N2	12325	86.72
3/8	3/8	1		2-1/2	SQ	std	VXMG9-1212-NR	12315	59.33
3/8	3/8	1		2-1/2	0.015	std	VXMG9-1212-R015	12316	59.33
1/2	1/2	5/8		2-1/2	SQ	stub	VXMG9-1616-NRS	12327	86.97
1/2	1/2	5/8		2-1/2	0.015	stub	VXMG9-1616-R015S	12328	86.97
1/2	1/2	5/8	1-1/2	4	0.015	ext neck	VXMG9-1616-R015N1	12377	158.57
1/2	1/2	5/8	2-1/4	4	0.015	ext neck	VXMG9-1616-R015N2	12405	158.57
1/2	1/2	1	1-1/4	3	SQ	std	VXMG9-1616-NR	12329	95.47
1/2	1/2	1	1-1/4	3	0.015	std	VXMG9-1616-R015	11801	95.47
1/2	1/2	1	1-1/4	3	0.030	std	VXMG9-1616-R030	11799	95.47
1/2	1/2	1-1/4		3	SQ	med	VXMG9-1616-NRM	12330	95.47
1/2	1/2	1-1/4		3	0.015	med	VXMG9-1616-R015M	12373	95.47
1/2	1/2	1-1/4		3	0.030	med	VXMG9-1616-R030M	12376	95.47
5/8	5/8	3/4		3	SQ	stub	VXMG9-2020-NRS	12406	157.69
5/8	5/8	3/4		3	0.030	stub	VXMG9-2020-R030S	12407	157.69
5/8	5/8	3/4	1-5/8	5	0.030	ext neck	VXMG9-2020-R030N1	12410	271.79
5/8	5/8	1-1/4	1-1/2	3-1/2	SQ	std	VXMG9-2020-NR	12408	166.37
5/8	5/8	1-1/4	1-1/2	3-1/2	0.030	std	VXMG9-2020-R030	12409	166.37
3/4	3/4	7/8		3	SQ	stub	VXMG9-2424-NRS	12411	233.22
3/4	3/4	7/8		3	0.030	stub	VXMG9-2424-R030S	12412	233.22
3/4	3/4	7/8	2	5	0.030	ext neck	VXMG9-2424-R030N1	12415	318.24
3/4	3/4	1-1/2	1-3/4	4	SQ	std	VXMG9-2424-NR	12413	250.38
3/4	3/4	1-1/2	1-3/4	4	0.030	std	VXMG9-2424-R030	12414	250.38
1	1	1-1/2	1-3/4	4	SQ	std	VXMG9-3232-NR	12416	382.84
1	1	1-1/2	1-3/4	4	0.030	std	VXMG9-3232-R030	12417	382.84

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9 FLUTE • VARIABLE FL - OPTIMUM FINE FINISH PROFILING APPLICATION



- ▶ Designed to deliver outstanding surface finishes, utilizing maximum metal removal rates
- ▶ Extreme metal removal rates delivered at full flute length & 5% x D radial depth
- ▶ Proprietary nAco coating provides extended tool life over conventional coatings
- ▶ Ideal for finishing tight tolerance walls

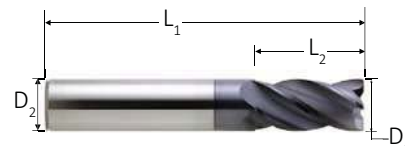


SERIES: VXM9-M_M_ [✓ Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	LENGTH	PART NAME	nAco EDP	nAco Price
4mm	4mm	12mm		51mm	SQ	std	VXM9-M4M4-NR	H6599	29.14
4mm	4mm	12mm		51mm	0.25mm	std	VXM9-M4M4-R0.25	H6600	29.14
6mm	6mm	20mm	26mm	63mm	SQ	std	VXM9-M6M6-NR	15151	41.72
6mm	6mm	20mm	26mm	63mm	0.5mm	std	VXM9-M6M6-R0.5	15134	41.72
6mm	6mm	20mm	*no neck	100mm	0.5mm	no neck	VXM9-M6M6-NN	15135	59.35
8mm	8mm	20mm	26mm	63mm	SQ	std	VXM9-M8M8-NR	15153	51.82
8mm	8mm	20mm	26mm	63mm	0.5mm	std	VXM9-M8M8-R0.5	15136	51.82
8mm	8mm	20mm	26mm	63mm	1.0mm	std	VXM9-M8M8-R1.0	H6601	51.82
8mm	8mm	20mm	no neck	100mm	0.5mm	no neck	VXM9-M8M8-NN	15137	71.24
10mm	10mm	24mm	30mm	70mm	SQ	std	VXM9-M10M10-NR	15155	70.47
10mm	10mm	24mm	30mm	70mm	0.5mm	std	VXM9-M10M10-R0.5	15138	70.47
10mm	10mm	24mm	30mm	70mm	1.0mm	std	VXM9-M10M10-R1.0	H6602	70.47
10mm	10mm	24mm	no neck	100mm	0.5mm	no neck	VXM9-M10M10-NN	15139	82.86
12mm	12mm	25mm	31mm	76mm	SQ	std	VXM9-M12M12-NR	15157	97.23
12mm	12mm	25mm	31mm	76mm	0.5mm	std	VXM9-M12M12-R0.5	15140	97.23
12mm	12mm	25mm	31mm	76mm	1.0mm	std	VXM9-M12M12-R1.0	H6603	97.23
12mm	12mm	25mm	31mm	76mm	2.0mm	std	VXM9-M12M12-R2.0	H6604	97.23
12mm	12mm	25mm	no neck	100mm	0.5mm	no neck	VXM9-M12M12-NN	15141	123.40
14mm	14mm	32mm	38mm	89mm	SQ	std	VXM9-M14M14-NR	15159	162.06
14mm	14mm	32mm	38mm	89mm	0.5mm	std	VXM9-M14M14-R0.5	15142	162.06
14mm	14mm	32mm	38mm	89mm	1.0mm	std	VXM9-M14M14-R1.0	H6605	162.06
16mm	16mm	32mm	38mm	89mm	SQ	std	VXM9-M16M16-NR	15161	175.25
16mm	16mm	32mm	38mm	89mm	0.5mm	std	VXM9-M16M16-R0.5	15143	175.25
16mm	16mm	32mm	38mm	89mm	1.0mm	std	VXM9-M16M16-R1.0	H6606	175.25
16mm	16mm	32mm	38mm	89mm	2.0mm	std	VXM9-M16M16-R2.0	H6607	175.25
16mm	16mm	32mm	no neck	100mm	0.5mm	no neck	VXM9-M16M16-NN	15144	218.44
18mm	18mm	36mm	42mm	100mm	SQ	std	VXM9-M18M18-NR	15163	256.65
18mm	18mm	36mm	42mm	100mm	0.5mm	std	VXM9-M18M18-R0.5	15145	256.65
18mm	18mm	36mm	42mm	100mm	1.0mm	std	VXM9-M18M18-R1.0	H6608	256.65
20mm	20mm	36mm	42mm	100mm	SQ	std	VXM9-M20M20-NR	15165	296.44
20mm	20mm	36mm	42mm	100mm	0.5mm	std	VXM9-M20M20-R0.5	H6609	296.44
20mm	20mm	36mm	42mm	100mm	1.0mm	std	VXM9-M20M20-R1.0	15147	296.44
20mm	20mm	36mm	42mm	100mm	2.0mm	std	VXM9-M20M20-R2.0	H6610	296.44
20mm	20mm	36mm	42mm	100mm	3.0mm	std	VXM9-M20M20-R3.0	H6611	296.44
25mm	25mm	36mm	42mm	100mm	SQ	std	VXM9-M25M25-NR	15167	412.18
25mm	25mm	36mm	42mm	100mm	0.5mm	std	VXM9-M25M25-R0.5	H6612	412.18
25mm	25mm	36mm	42mm	100mm	1.0mm	std	VXM9-M25M25-R1.0	15149	412.18
25mm	25mm	36mm	42mm	100mm	3.0mm	std	VXM9-M25M25-R3.0	H6613	412.18

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4 FLUTE • VARIABLE FL - GENERAL MACHINING APPLICATIONS



- › Designed to reduce vibration in heavier cuts
- › Effective on all medium hardness Ferrous Materials
- › Proprietary nAco coating provides extended tool life over conventional coatings

SERIES: VHMGS [✓ Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	CORNER	LENGTH	PART NAME	nAco EDP	nAco Price
1/8	1/8	1/4	1-1/2	.010-.015	stub	VHMGS-404	12176	16.27
1/8	1/8	1/2	1-1-2	SQ	std	VHMG-404-NR	10590	16.27
1/8	1/8	1/2	1-1/2	.010-.015	std	VHMG-404	10813	16.27
3/16	3/16	3/8	1-1/2	.015-.020	stub	VHMGS-606	12375	21.53
3/16	3/16	5/8	2	SQ	std	VHMG-606-NR	10592	22.33
3/16	3/16	5/8	2	.015-.020	std	VHMG-606	10981	22.33
1/4	1/4	1/2	2	SQ	stub	VHMGS-808-NR	10594	26.40
1/4	1/4	1/2	2	.015-.020	stub	VHMGS-808	10003	26.40
1/4	1/4	3/4	2-1/2	SQ	std	VHMG-808-NR	10596	32.71
1/4	1/4	3/4	2-1/2	.015-.020	std	VHMG-808	10005	32.71
1/4	1/4	1-1/8	3	SQ	long	VHMG-808-L-NR	10598	41.62
1/4	1/4	1-1/8	3	.015-.020	long	VHMG-808-L	10007	41.62
5/16	5/16	1/2	2	SQ	stub	VHMGS-1010-NR	10600	39.25
5/16	5/16	1/2	2	.015-.020	stub	VHMGS-1010	10009	39.25
5/16	5/16	13/16	2-1/2	SQ	std	VHMG-1010-NR	10602	40.39
5/16	5/16	13/16	2-1/2	.015-.020	std	VHMG-1010	10011	40.39
5/16	5/16	1-1/8	3	SQ	long	VHMG-1010-LNR	10604	45.06
5/16	5/16	1-1/8	3	.015-.020	long	VHMG-1010-L	10013	45.06
3/8	3/8	5/8	2	SQ	stub	VHMGS-1212-NR	10606	45.69
3/8	3/8	5/8	2	.015-.020	stub	VHMGS-1212	10015	45.69
3/8	3/8	1	2-1/2	SQ	std	VHMG-1212-NR	10608	48.37
3/8	3/8	1	2-1/2	.015-.020	std	VHMG-1212	10017	46.06
3/8	3/8	1-1/8	3	SQ	long	VHMG-1212-LNR	10609	62.52
3/8	3/8	1-1/8	3	.015-.020	long	VHMG-1212-L	10019	62.52
7/16	7/16	1	2-3/4	SQ	std	VHMG-1414-NR	10610	62.63
7/16	7/16	1	2-3/4	.015-.020	std	VHMG-1414	10021	62.63
1/2	1/2	5/8	2-1/2	SQ	stub	VHMGS-1616-NR	10612	72.04
1/2	1/2	5/8	2-1/2	.025-.030	stub	VHMGS-1616	10023	72.04
1/2	1/2	1	3	SQ	std	VHMG-1616-NR	10642	73.24
1/2	1/2	1	3	.025-.030	std	VHMG-1616	10025	73.24
1/2	1/2	1-1/4	3	SQ	med	VHMG-1616-MNR	12051	81.57
1/2	1/2	1-1/4	3	.025-.030	med	VHMG-1616-M	12371	76.59
1/2	1/2	1-1/2	3-1/2	.025-.030	med/long	VHMG-1616-ML	11656	90.85
1/2	1/2	2	4	SQ	long	VHMG-1616-LNR	10644	90.85
1/2	1/2	2	4	.025-.030	long	VHMG-1616-L	10027	90.85
5/8	5/8	3/4	3	SQ	stub	VHMGS-2020-NR	10688	127.27
5/8	5/8	3/4	3	.030-.035	stub	VHMGS-2020	10029	127.27
5/8	5/8	1-1/4	3-1/2	SQ	std	VHMG-2020-NR	10692	143.88
5/8	5/8	1-1/4	3-1/2	.030-.035	std	VHMG-2020	10031	135.09
5/8	5/8	2-1/4	5	SQ	long	VHMG-2020-LNR	10696	176.95
5/8	5/8	2-1/4	5	.030-.035	long	VHMG-2020-L	10033	176.95

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sizes continued on next page

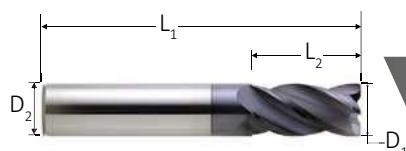
4 FLUTE • VARIABLE FL - GENERAL MACHINING APPLICATIONS

SERIES: VHMG ✓ [Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	CORNER	LENGTH	PART NAME	nACo EDP	nACo Price
3/4	3/4	1	3	SQ	stub	VHMG-2424-NR	10706	191.71
3/4	3/4	1	3	.030-.035	stub	VHMG-2424	10035	191.71
3/4	3/4	1-1/2	4	SQ	std	VHMG-2424-NR	10714	205.47
3/4	3/4	1-1/2	4	.030-.035	std	VHMG-2424	10037	205.47
3/4	3/4	2-1/4	5	SQ	long	VHMG-2424-LNR	10718	274.27
3/4	3/4	2-1/4	5	.030-.035	long	VHMG-2424-L	10039	256.33
1	1	1-1/2	4	SQ	std	VHMG-3232-NR	10720	299.95
1	1	1-1/2	4	.030-.035	std	VHMG-3232	10985	299.95
1	1	2-1/4	5	SQ	long	VHMG-3232-LNR	10578	342.12
1	1	2-1/4	5	.030-.035	long	VHMG-3232-L	13049	319.73
1-1/4	1-1/4	2-1/4	5	.030-.035	std	VHMG-4040	13051	666.45



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4 FLUTE • VARIABLE FL - GENERAL MACHINING APPLICATIONS

Carbide	4	Center Cutting	variable	nACo	+0.000mm -0.050mm	Radius				HRC <54	P M K S
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- Designed to reduce vibration in heavier cuts
- Effective on all medium hardness Ferrous Materials
- Proprietary nACo coating provides extended tool life over conventional coatings

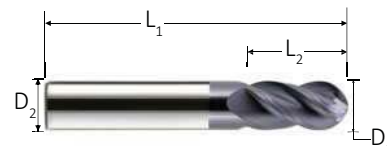
SERIES: VHMG-M_M_ ✓ [Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	CORNER	LENGTH	PART NAME	nACo EDP	nACo Price
4mm	4mm	14mm	51mm	0.4mm	std	VHMG-M4M4	11401	24.03
5mm	5mm	20mm	51mm	0.4mm	std	VHMG-M5M5	11403	26.81
6mm	6mm	20mm	63mm	0.4mm	std	VHMG-M6M6	11405	34.67
8mm	8mm	20mm	63mm	0.4mm	std	VHMG-M8M8	11407	42.06
10mm	10mm	25mm	70mm	0.4mm	std	VHMG-M10M10	11409	62.79
12mm	12mm	25mm	76mm	0.6mm	std	VHMG-M12M12	11411	76.14
14mm	14mm	32mm	89mm	0.6mm	std	VHMG-M14M14	11413	131.41
16mm	16mm	32mm	89mm	0.7mm	std	VHMG-M16M16	11415	141.64
18mm	18mm	38mm	100mm	0.7mm	std	VHMG-M18M18	11417	205.38
20mm	20mm	38mm	100mm	0.8mm	std	VHMG-M20M20	11419	263.46
25mm	25mm	38mm	100mm	0.8mm	std	VHMG-M25M25	11421	339.63



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4 FLUTE • VARIABLE FL - BALL NOSE GENERAL MACHINING APPLICATIONS



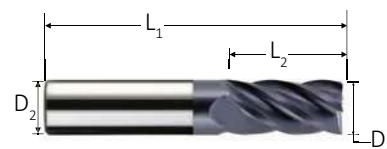
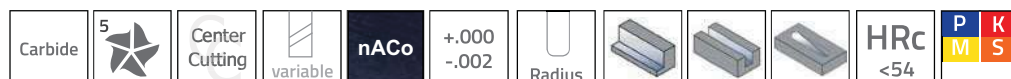
- Designed to reduce vibration in heavier cuts
- Effective on all medium hardness Ferrous Materials
- Proprietary nACo coating provides extended tool life over conventional coatings

SERIES: VHMG-__-B ✓ [Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	PART NAME	nACo EDP	nACo Price
1/4	1/4	3/4	2-1/2	std	VHMG-808-B	12279	36.68
5/16	5/16	13/16	2-1/2	std	VHMG-1010-B	12297	45.31
3/8	3/8	1	2-1/2	std	VHMG-1212-B	12298	51.67
1/2	1/2	1	3	std	VHMG-1616-B	12299	82.12
5/8	5/8	1-1/4	3-1/2	std	VHMG-2020-B	12300	151.51
3/4	3/4	1-1/2	4	std	VHMG-2424-B	12301	230.43

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5 FLUTE • VARIABLE FL - GENERAL MACHINING APPLICATIONS



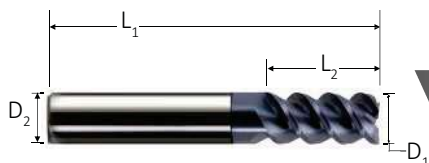
Additional coatings available upon request

- Designed to reduce vibration in heavier cuts, with higher metal removal rates
- Effective on all medium hardness Ferrous Materials
- Proprietary nACo coating provides extended tool life over conventional coatings

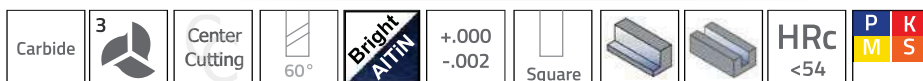
SERIES: GVHMG ✓ [Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	CORNER	LENGTH	PART NAME	nACo EDP	nACo Price
1/4	1/4	3/4	2-1/2	.015-.020	std	GVHMG-808	12221	36.57
3/8	3/8	1	2-1/2	.015-.020	std	GVHMG-1212	12222	52.24
1/2	1/2	1	3	.025-.030	std	GVHMG-1616	12192	84.23
5/8	5/8	1-1/4	3-1/2	.030-.035	std	GVHMG-2020	12223	155.38
3/4	3/4	1-1/2	4	.030-.035	std	GVHMG-2424	12224	237.43
1	1	1-1/2	4	.030-.035	std	GVHMG-3232	12285	346.63

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3 FLUTE • 60° GENERAL MACHINING APPLICATION IN STAINLESS STEELS



Additional coatings available upon request

- ▶ Extra High Helix keeps a cutting edge in the material throughout the machining process
- ▶ Produces outstanding surface finishes
- ▶ Requires minimum horsepower

SERIES: EMG60 ✓ [Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	PART NAME	BRIGHT EDP	ALTiN EDP	BRIGHT Price	ALTiN Price
1/8	1/8	1/2	1-1/2	EMG60-404	10256	50256	10.57	13.20
3/16	3/16	5/8	2	EMG60-606	10797	50797	14.99	18.60
1/4	1/4	3/4	2-1/2	EMG60-808	14238	54238	19.84	24.60
5/16	5/16	13/16	2-1/2	EMG60-1010	14240	54240	26.52	32.90
3/8	3/8	1	2-1/2	EMG60-1212	14242	54242	32.63	40.10
7/16	7/16	1	3	EMG60-1414	14246	54246	44.74	53.29
1/2	1/2	1	3	EMG60-1616	14248	54248	54.92	63.50
9/16	9/16	1-1/4	3-1/2	EMG60-1818	14250	54250	118.57	135.17
5/8	5/8	1-1/4	3-1/2	EMG60-2020	14252	54252	102.44	116.80
3/4	3/4	1-1/2	4	EMG60-2424	14254	54254	140.18	161.90
1	1	1-1/2	4	EMG60-3232	14256	54256	224.30	255.90

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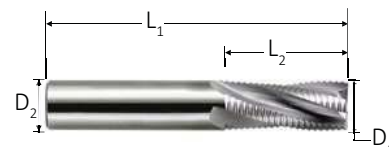


Melin Product Portfolio

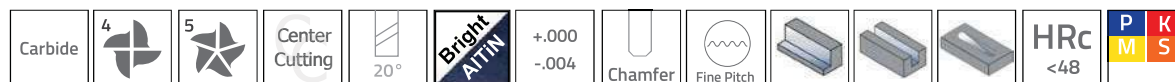
- Easy to Use
- Easy to find and select the BEST tool for the application at hand
- Easy to see the features and benefits of the design and the various styles available
- Ideal for effective tool selections



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MULTI FLUTE • FINE PROFILE ROUGHING END MILL



Additional coatings available upon request



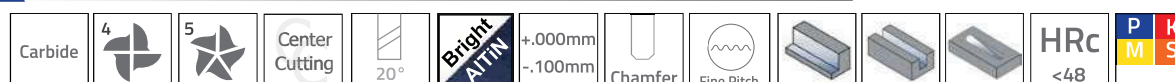
- Sinusoidal ground profile enables maximum metal removal rates
- Provides outstanding heat resistance and minimum tool wear
- Effective on all medium hardness Ferrous Materials

SERIES: CRMG ✓ [Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	FLUTES	PART NAME	BRIGHT EDP	ALTiN EDP	BRIGHT Price	ALTiN Price
3/16	3/16	5/8	2	std	4	CRMG-606	10276	50276	25.42	28.60
1/4	1/4	3/4	2-1/2	std	4	CRMG-808	15960	55960	35.43	41.60
1/4	1/4	1-1/8	3	long	4	CRMG-808-L	13751	53751	43.96	50.10
5/16	5/16	13/16	2-1/2	std	4	CRMG-1010	15961	55961	43.14	50.60
3/8	3/8	1/2	2	stub	4	CRMGS-1212	14205	54205	49.58	55.35
3/8	3/8	1	2-1/2	std	4	CRMG-1212	15962	55962	50.60	58.10
3/8	3/8	1-1/8	3	long	4	CRMG-1212-L	10234	50234	69.60	77.10
1/2	1/2	5/8	2-1/2	stub	4	CRMGS-1616	14201	54201	75.43	94.30
1/2	1/2	1-1/4	3	std	4	CRMG-1616	15963	55963	76.52	87.20
1/2	1/2	2	4	long	4	CRMG-1616-L	13750	53750	106.28	117.40
5/8	5/8	1-1/4	3-1/2	std	4	CRMG-2020	15964	55964	138.94	158.40
5/8	5/8	2-1/4	5	long	4	CRMG-2020-L	15725	55725	188.08	211.00
3/4	3/4	3/4	3	stub	4	CRMGS-2424	14203	54203	175.44	213.90
3/4	3/4	1-1/2	4	std	4	CRMG-2424	15965	55965	181.54	218.19
3/4	3/4	2-1/4	5	long	4	CRMG-2424-L	15727	55727	232.05	264.10
1	1	1-1/2	4	std	5	CRMG-3232	15966	55966	284.11	323.90
1	1	2-1/4	5	long	5	CRMG-3232-L	13960	53960	314.41	358.30

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MULTI FLUTE • FINE PROFILE ROUGHING END MILL



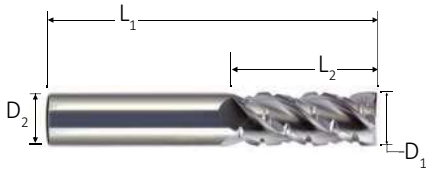
Additional coatings available upon request



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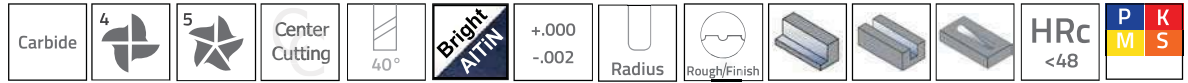
SERIES: CRMG-M_M_ ✓ [Check Stock Online](#)

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	LENGTH	FLUTES	PART NAME	BRIGHT EDP	ALTiN EDP	BRIGHT Price	ALTiN Price
4mm	4mm	14mm	50mm	std	4	CRMG-M4M4	14841	54841	25.42	28.6
6mm	6mm	20mm	63mm	std	4	CRMG-M6M6	13427	53427	33.52	39.70
8mm	8mm	20mm	63mm	std	4	CRMG-M8M8	13428	53428	39.21	46.70
10mm	10mm	25mm	70mm	std	4	CRMG-M10M10	13429	53429	58.60	66.80
12mm	12mm	25mm	76mm	std	4	CRMG-M12M12	13430	53430	71.42	81.42
14mm	14mm	32mm	89mm	std	4	CRMG-M14M14	13431	53431	119.15	129.35
16mm	16mm	32mm	89mm	std	4	CRMG-M16M16	13432	53432	129.54	147.70
18mm	18mm	38mm	100mm	std	4	CRMG-M18M18	13433	53433	192.69	208.84
20mm	20mm	38mm	100mm	std	4	CRMG-M20M20	13434	53434	238.41	264.06
25mm	25mm	38mm	100mm	std	5	CRMG-M25M25	13435	53435	297.05	328.65


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FERROUS ALLOYS

MULTI FLUTE • ROUGHER FINISHER



Additional coatings available upon request

- › A single tool for roughing and semi-finishing in a single pass
- › Truncated, ground profile enables optimum chip evacuation
- › Enables heavy cutting while still leaving good finishes

SERIES: CRFMG ✓ Check Stock Online

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	CORNER	FLUTES	PART NAME	BRIGHT EDP	ALTIN EDP	BRIGHT Price	ALTIN Price
3/16	3/16	5/8	2	.0225	4	CRFMG-606	10280	50280		
1/4	1/4	3/4	2-1/2	.0225	4	CRFMG-808	13477	53477	30.02	36.20
1/4	1/4	1	3	.0225	4	CRFMG-808-L	15832	55832	34.85	38.57
5/16	5/16	13/16	2-1/2	.0225	4	CRFMG-1010	13478	53478	36.57	44.00
3/8	3/8	1	2-1/2	.0225	4	CRFMG-1212	13479	53479	42.87	50.40
3/8	3/8	1-1/4	3	.0225	4	CRFMG-1212-L	15834	55834	49.33	58.15
1/2	1/2	1-1/4	3	.0225	4	CRFMG-1616	13480	53480	64.84	75.90
1/2	1/2	1-5/8	4	.0225	4	CRFMG-1616-M	15836	55836	72.75	83.28
5/8	5/8	1-1/4	3-1/2	.0325	4	CRFMG-2020	13481	53481	117.76	134.20
5/8	5/8	1-5/8	4	.0325	4	CRFMG-2020-M	15838	55838	126.90	139.99
3/4	3/4	1-1/2	4	.0325	4	CRFMG-2424	13482	53482	153.84	186.20
3/4	3/4	2-1/4	5	.0325	4	CRFMG-2424-L	15802	55802	171.60	191.79
1	1	1-1/2	4	.0325	5	CRFMG-3232	13483	53483	240.78	275.80

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4 FLUTE • ROUGHER FINISHER



Additional coatings available upon request

SERIES: CRFMG-M_M_ ✓ Check Stock Online

DIA D ₁	SHK D ₂	LOC L ₂	OAL L ₁	CORNER	PART NAME	BRIGHT EDP	ALTIN EDP	BRIGHT Price	ALTIN Price
6mm	6mm	20mm	63mm	0.50mm	CRFMG-M6M6	13436	53436	28.39	34.60
8mm	8mm	20mm	63mm	0.50mm	CRFMG-M8M8	13437	53437	33.23	40.70
10mm	10mm	25mm	70mm	0.50mm	CRFMG-M10M10	13438	53438	49.66	58.11
12mm	12mm	25mm	76mm	0.50mm	CRFMG-M12M12	13439	53439	60.53	69.00
14mm	14mm	32mm	89mm	0.75mm	CRFMG-M14M14	13440	53440	100.98	115.11
16mm	16mm	32mm	89mm	0.75mm	CRFMG-M16M16	13441	53441	109.78	125.20
20mm	20mm	38mm	100mm	0.75mm	CRFMG-M20M20	13443	53443	202.04	230.33

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