

Архангельск (8182)63-90-72
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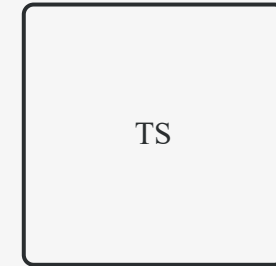
MasterMILL

The MasterMILL end mills are tools designed for machining steel and stainless steel with a hardness of up to 45HRC, cast iron, non-ferrous metals, and heat-resistant alloys.

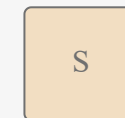
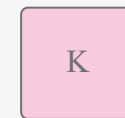
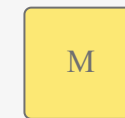
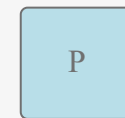
They are characterised by a geometry that reduces vibrations, allowing for work

using high parameters. The TS coating applied with the latest HiPIMS technology ensures the

highest durability.
It also guarantees
a uniform structure and



Application



the highest resistance to cracking. The silicon contained in the coating allows work with hard and abrasive materials.

Variants

Designation

**Z - flute
number**

**Variable
geometry**

440N/R440N



4

v

B440N



4

v

645



6

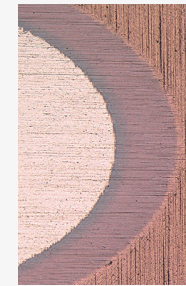
v



440N/R440N



The most efficient machining of a wide range of materials.









Protection



















The TS coat developed by Fanar protects the tools against wear and tear. Applied in state-of-the-art HiPIMS technology that guarantees homogenous coat structure and the highest crack resistance. Silicon contained in the coat allows






Dimensions

Index	$\varnothing d_1$	$\varnothing d_2 h_6$	d_3	l_1	l_2	l_3	R	Z - flute number	End mill shank type
M9-44GMA0-0030	3	6	2,8	57	8	14		4	
M9-44GMAD-0030	3	6	2,8	57	8	14	0,3	4	

M9-44GMA0-0040	4	6	3,8	57	11	17		4	
M9-44GMAD-0040	4	6	3,8	57	11	17	0,3	4	
M9-44GMA0-0050	5	6	4,8	57	13	19		4	
M9-44GMAD-0050	5	6	4,8	57	13	19	0,3	4	
M9-44GMA0-0060	6	6	5,5	57	13	21		4	
M9-44GMAC-0060	6	6	5,5	57	13	21	0,25	4	
M9-44GMA1-0060	6	6	5,5	57	13	21	0,5	4	
M9-44GMA3-0060	6	6	5,5	57	13	21	1	4	

M9-44GMA0-0080	8	8	7,5	63	19	27		4	
M9-44GMA1-0080	8	8	7,5	63	19	27	0,5	4	
M9-44GMA3-0080	8	8	7,5	63	19	27	1	4	
M9-44GMA0-0100	10	10	9,5	72	22	32		4	
M9-44GMA1-0100	10	10	9,5	72	22	32	0,5	4	
M9-44GMA3-0100	10	10	9,5	72	22	32	1	4	
M9-44GMA4-0100	10	10	9,5	72	22	32	1,5	4	
M9-44GMA0-0120	12	12	11,5	83	26	38		4	

M9-44GMA1-0120	12	12	11,5	83	26	38	0,5	4	
M9-44GMA3-0120	12	12	11,5	83	26	38	1	4	
M9-44GMA0-0140	14	14	13	83	26	38		4	
M9-44GMA1-0140	14	14	13	83	26	38	0,5	4	
M9-44GMA0-0160	16	16	15	92	32	44		4	
M9-44GMA1-0160	16	16	15	92	32	44	0,5	4	
M9-44GMA3-0160	16	16	15	92	32	44	1,0	4	
M9-44GMA7-0160	16	16	15	92	32	44	3	4	

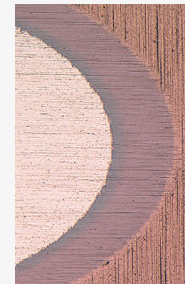
M9-44GMA0-0180	18	18	17	92	32	44		4	
M9-44GMA1-0180	18	18	17	92	32	44	0,5	4	
M9-44GMA0-0200	20	20	19	104	38	55		4	
M9-44GMA1-0200	20	20	19	104	38	55	0,5	4	
M9-44GMA3-0200	20	20	19	104	38	55	1,0	4	



B440N



The most efficient machining of a wide range of materials.










Protection



The TS coat developed by Fanar protects the tools against wear and tear. Applied in state-of-the-art HiPIMS technology that guarantees homogenous coat structure and the highest crack resistance. Silicon contained in the coat allows

Dimensions

Index	$\varnothing d_1$	$\varnothing d_2 h_6$	d_3	l_1	l_2	l_3	R	Z - flute number	End mill shank type
M9-44GMAX-0030	3	6		57	8		1,5	4	
M9-44GMAX-0040	4	6		57	11		2,0	4	

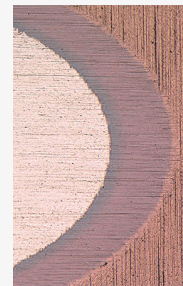
M9-44GMAX-0050	5	6		57	13		2,5	4	
M9-44GMAX-0060	6	6	5,5	57	13	21	3,0	4	
M9-44GMAX-0080	8	8	7,5	63	19	27	4,0	4	
M9-44GMAX-0100	10	10	9,5	72	22	32	5,0	4	
M9-44GMAX-0120	12	12	11,5	83	26	38	6,0	4	
M9-44GMAX-0140	14	14	13	83	26	38	7,0	4	
M9-44GMAX-0160	16	16	15	92	32	44	8,0	4	
M9-44GMAX-0180	18	18	17	92	32	44	9,0	4	
M9-44GMAX-0200	20	20	19	104	38	55	10,0	4	



645

The most efficient machining of a wide range of materials.








Protection



The TS coat developed by Fanar protects the tools against wear and tear. Applied in state-of-the-art HiPIMS technology that guarantees

homogenous coat structure and the highest crack resistance. Silicon contained in the coat allows machining hard and abrasive materials.

Dimensions

Index	$\varnothing d_1$	$\varnothing d_2 h_6$	l_1	l_2	Z - flute number	End mill shank type
M9-64GM00-0060	6	6	57	16	6	
M9-64GM00-0080	8	8	63	20	6	
M9-64GM00-0100	10	10	72	25	6	
M9-64GM00-0120	12	12	83	30	6	
M9-64GM00-0140	14	14	83	35	6	
M9-64GM00-0160	16	16	92	40	6	
M9-64GM00-0200	20	20	104	45	6	

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