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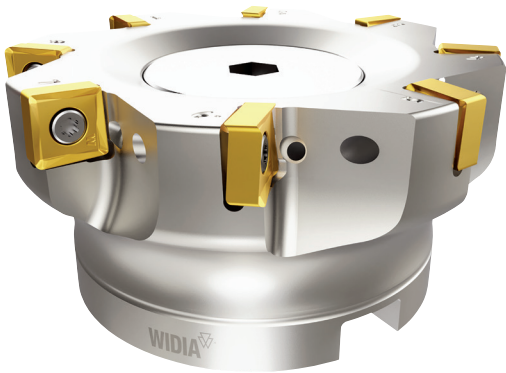
**MEGA METAL**

**SAVINGS**

***BUY MORE  
INSERTS,  
SAVE MORE  
ON STEEL!\****

\*Offer valid through June 30, 2024. See inside for details.

# 8-Edged, Double-Sided True 90° Victory™ Shoulder-Face Mill



## VSM890

- Market leading solution with double-sided, 8-edged milling inserts
- Perfect fit for all shoulder-face milling jobs where 90° wall is needed
- Superior MRR through high-performance grades and chip breakers
- Multiple diameters with course, medium and fine-pitched cutter densities
- Applicable in aluminum, steels, cast iron, titanium, stainless steels and high-temp alloys
- Comprehensive standard offering for cutter bodies and inserts to address light machining to heavy-roughing jobs

VSM890 Face & Shoulder Mill Inch (USD)							
Cutter Diameter	# of Inserts						
	Inch	10	15	20	30	40	50
1.25	\$25	\$0	\$0	\$0	\$0	\$0	\$0
	VPWMS12510	VPWMS12515	VPWMS12520	VPWMS12530	VPWMS12540	VPWMS12550	
1.5	\$50	\$25	\$0	\$0	\$0	\$0	\$0
	VPWMS15010	VPWMS15015	VPWMS15020	VPWMS15030	VPWMS15040	VPWMS15050	
2	\$75	\$25	\$0	\$0	\$0	\$0	\$0
	VPWMS210	VPWMS215	VPWMS220	VPWMS230	VPWMS240	VPWMS250	
2.5	\$100	\$50	\$0	\$0	\$0	\$0	\$0
	VPWMS25010	VPWMS25015	VPWMS25020	VPWMS25030	VPWMS25040	VPWMS25050	
3	\$125	\$75	\$25	\$0	\$0	\$0	\$0
	VPWMS310	VPWMS315	VPWMS320	VPWMS330	VPWMS340	VPWMS350	
4	\$150	\$100	\$50	\$25	\$0	\$0	\$0
	VPWMS410	VPWMS415	VPWMS420	VPWMS430	VPWMS440	VPWMS450	
5	\$200	\$150	\$75	\$25	\$0	\$0	\$0
	VPWMS510	VPWMS515	VPWMS520	VPWMS530	VPWMS540	VPWMS550	
6	\$275	\$225	\$175	\$75	\$25	\$0	\$0
	VPWMS610	VPWMS615	VPWMS620	VPWMS630	VPWMS640	VPWMS650	
8	\$300	\$250	\$175	\$100	\$50	\$0	\$0
	VPWMS810	VPWMS815	VPWMS820	VPWMS830	VPWMS840	VPWMS850	
10	\$350	\$300	\$250	\$175	\$100	\$25	\$0
	VPWMS1010	VPWMS1015	VPWMS1020	VPWMS1030	VPWMS1040	VPWMS1050	

VSM890 Face & Shoulder Mill Metric (USD)							
Cutter Diameter	# of Inserts						
	mm	10	15	20	30	40	50
32	\$25	\$0	\$0	\$0	\$0	\$0	\$0
	VPWMS32MM10	VPWMS32MM15	VPWMS32MM20	VPWMS32MM30	VPWMS32MM40	VPWMS32MM50	
40	\$50	\$25	\$0	\$0	\$0	\$0	\$0
	VPWMS40MM10	VPWMS40MM15	VPWMS40MM20	VPWMS40MM30	VPWMS40MM40	VPWMS40MM50	
50	\$75	\$25	\$0	\$0	\$0	\$0	\$0
	VPWMS50MM10	VPWMS50MM15	VPWMS50MM20	VPWMS50MM30	VPWMS50MM40	VPWMS50MM50	
63	\$100	\$50	\$0	\$0	\$0	\$0	\$0
	VPWMS63MM10	VPWMS63MM15	VPWMS63MM20	VPWMS63MM30	VPWMS63MM40	VPWMS63MM50	
80	\$125	\$75	\$25	\$0	\$0	\$0	\$0
	VPWMS80MM10	VPWMS80MM15	VPWMS80MM20	VPWMS80MM30	VPWMS80MM40	VPWMS80MM50	
100	\$150	\$100	\$50	\$25	\$0	\$0	\$0
	VPWMS100MM10	VPWMS100MM15	VPWMS100MM20	VPWMS100MM30	VPWMS100MM40	VPWMS100MM50	
125	\$200	\$150	\$75	\$25	\$0	\$0	\$0
	VPWMS125MM10	VPWMS125MM15	VPWMS125MM20	VPWMS125MM30	VPWMS125MM40	VPWMS125MM50	
160	\$275	\$225	\$175	\$75	\$25	\$0	\$0
	VPWMS160MM10	VPWMS160MM15	VPWMS160MM20	VPWMS160MM30	VPWMS160MM40	VPWMS160MM50	
200	\$300	\$250	\$175	\$100	\$50	\$0	\$0
	VPWMS200MM10	VPWMS200MM15	VPWMS200MM20	VPWMS200MM30	VPWMS200MM40	VPWMS200MM50	
250	\$350	\$300	\$250	\$175	\$100	\$25	\$0
	VPWMS250MM10	VPWMS250MM15	VPWMS250MM20	VPWMS250MM30	VPWMS250MM40	VPWMS250MM50	

# Versatile Industry Leading Face Mill for All Machining Conditions



**M1600**

- 16 cutting edges for low cost per edge for machining in steels, stainless steels and cast-iron components
- Universal -MM geometry insert in grades WP35CM, WU20PM, WK15CM with low cutting forces due to positive rake
- 44° cutter lead angle allows high feed chip thinning with low power requirements
- Depth of cut: 4mm Ap1 max for aggressive MRR
- Precision ground inserts account for less run out and longer lasting tool life
- Smart insert design resists shock loads with integrated wiper facet for improved surface finish

M1600 Face Mill Inch (USD)							
# of Inserts							
Cutter Diameter	Inch	10	15	20	30	40	50
	2		\$75	\$25	\$0	\$0	\$0
		VPWMS210	VPWMS215	VPWMS220	VPWMS230	VPWMS240	VPWMS250
2.5		\$100	\$50	\$0	\$0	\$0	\$0
		VPWMS25010	VPWMS25015	VPWMS25020	VPWMS25030	VPWMS25040	VPWMS25050
3		\$125	\$75	\$25	\$0	\$0	\$0
		VPWMS310	VPWMS315	VPWMS320	VPWMS330	VPWMS340	VPWMS350
4		\$150	\$100	\$50	\$25	\$0	\$0
		VPWMS410	VPWMS415	VPWMS420	VPWMS430	VPWMS440	VPWMS450
5		\$200	\$150	\$75	\$25	\$0	\$0
		VPWMS510	VPWMS515	VPWMS520	VPWMS530	VPWMS540	VPWMS550
6		\$275	\$225	\$175	\$75	\$25	\$0
		VPWMS610	VPWMS615	VPWMS620	VPWMS630	VPWMS640	VPWMS650

M1600 Face Mill Metric (USD)							
# of Inserts							
Cutter Diameter	mm	10	15	20	30	40	50
	50		\$75	\$25	\$0	\$0	\$0
		VPWMS50MM10	VPWMS50MM15	VPWMS50MM20	VPWMS50MM30	VPWMS50MM40	VPWMS50MM50
63		\$100	\$50	\$0	\$0	\$0	\$0
		VPWMS63MM10	VPWMS63MM15	VPWMS63MM20	VPWMS63MM30	VPWMS63MM40	VPWMS63MM50
80		\$125	\$75	\$25	\$0	\$0	\$0
		VPWMS80MM10	VPWMS80MM15	VPWMS80MM20	VPWMS80MM30	VPWMS80MM40	VPWMS80MM50
100		\$150	\$100	\$50	\$25	\$0	\$0
		VPWMS100MM10	VPWMS100MM15	VPWMS100MM20	VPWMS100MM30	VPWMS100MM40	VPWMS100MM50
125		\$200	\$150	\$75	\$25	\$0	\$0
		VPWMS125MM10	VPWMS125MM15	VPWMS125MM20	VPWMS125MM30	VPWMS125MM40	VPWMS125MM50
160		\$275	\$225	\$175	\$75	\$25	\$0
		VPWMS160MM10	VPWMS160MM15	VPWMS160MM20	VPWMS160MM30	VPWMS160MM40	VPWMS160MM50

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