



# TOOL UP & CASH IN

Get a **FREE** MA90 Cutter Body with  
Purchase of 10 Inserts

Promo Code: **MA9010**

**MA90 Series** **P** **M** **K** **S** **H**

Multi-Functional 90° Milling with Tangential Inserts  
Cutting Diameters 0.625" - 3.000"

Promo Valid through **March 31, 2026**



Offers shown valid in U.S. only



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# MA90 Milling

Tangential 90° Milling with 4-Edge Inserts



View Online



Full Product Brochure



Watch Video

- Unique tangential 90° end mill design provides a large variety of machining operations
- Newly designed inserts with grades PR18 series coating technology
- High quality surface finish and excellent wall accuracy
- Supports multi-functional machining



**Large Web Thickness**  
High rigidity

**Peripheral Grinding**  
Excellent wall accuracy

**Special Wiper Edge**  
Large relief angle suppresses wear  
High-quality surface finish

**Multi-Functional (G-Class Insert)**  
Supports three-dimensional machining

**Unique Cutting Edge Design**  
Excellent fracture resistance and low cutting force design

**Newly Developed Insert Grade**  
MEGACOAT NANO EX  
PR18 Series delivers longer tool life



Next-generation PVD insert grades PR18 Series provide significantly longer tool life

Extensive lineup of insert grades



Next-generation insert grade

**PR18 Series**

Longer Tool Life with Next-generation Coating for Milling

Workpiece material	P Steel					M Stainless steel					K Cast iron				
	ISO	01	10	20	30	40	01	10	20	30	40	01	10	20	30
Lineup		1st recommendation PR1825					1st recommendation PR1835					1st recommendation PR1810			
		Wet PR1835					High-speed machining CA6535								

**H** Hardened material

PR015S (GH)

**S** Heat-resistant alloy

CA6535 (PR1835)

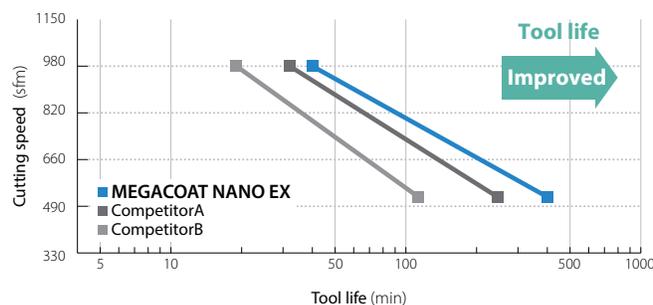
Titanium alloy

PR1835

PR1825 Wear resistance comparison (Internal evaluation)  
V-T graph

Life criteria:  
Flank face wear = 0.004"

Cutting conditions:  
Vc = 520 / 980 sfm  
D.O.C. = 0.079" × 4.331", fz = 0.005 ipt  
4140 Dry  
PNMU1205ANER-GM (MFPN)



# Available Cutter Bodies

**MA90** (End Mills) [LOGU09 / LOGU12... Inserts]

Promo Code: **MA9010**

Image	Shank	Part Number	Std. Item	No. of Inserts	Insert Purchase Requirement	Dimensions (in)				Coolant Hole	Applicable Inserts Page 4	
						Cutting Dia. DC	Shank Dia DCON	Length LF	Max. D.O.C. APMX			Connection Thread CRKS
	Weldon Standard Shank	MA90- 0625W625-09T2C	●	2	10	0.625	0.625	3.000	0.315	-	Yes	LOGU0904...
		0750W750-09T3C	●	3	10	0.750	0.750	3.250				
		1000W100-09T4C	●	4	10	1.000	1.000	3.750				
		1250W100-09T4C	●	4	10	1.250	1.000	4.000				
		1250W100-09T5C	●	5	10	1.250	1.000	4.000				
		1250W125-09T5C	●	5	10	1.250	1.250	4.000				
		1500W125-09T5C	●	5	10	1.500	1.250	4.350				
		1500W125-09T6C	●	6	10	1.500	1.250	4.350				
		MA90- 1000W100-12T2C	●	2	10	1.000	1.000	3.750	0.472	-	Yes	LOGU1206...
		1250W100-12T2C	●	2	10	1.250	1.000	4.000				
		1250W100-12T3C	●	3	10	1.250	1.000	4.000				
		1250W125-12T3C	●	3	10	1.250	1.250	4.000				
		1500W125-12T3C	●	3	10	1.500	1.250	4.350				
		1500W125-12T4C	●	4	10	1.500	1.250	4.350				
	Cylindrical Standard Shank	MA90- 0625S625-09T2C	●	2	10	0.625	0.625	3.000	0.315	-	Yes	LOGU0904...
		0750S750-09T3C	●	3	10	0.750	0.750	3.250				
		1000S100-09T4C	●	4	10	1.000	1.000	3.750				
		1250S100-09T5C	●	5	10	1.250	1.000	4.000				
		1500S125-09T5C	●	5	10	1.500	1.250	4.350				
	Cylindrical Long Shank	MA90- 0750S750-09T3CL	●	3	10	0.750	0.750	7.000	0.315	-	Yes	LOGU0904...
		1000S100-09T3CL	●	3	10	1.000	1.000	7.000				
		1500S125-09T3CL	●	3	10	1.500	1.250	9.500				
	Cylindrical Standard Shank	MA90- 1000S100-12T2C	●	2	10	1.000	1.000	3.750	0.472	-	Yes	LOGU1206...
		1250S100-12T3C	●	3	10	1.250	1.000	4.000				
		1500S125-12T4C	●	4	10	1.500	1.250	4.350				
	Cylindrical Long Shank	MA90- 1000S100-12T2CL	●	2	10	1.000	1.000	7.000	0.472	-	Yes	LOGU1206...
		1500S125-12T3CL	●	3	10	1.500	1.250	9.500				
		Modular Shank	MA90- 0750M10-09T3C	●	3	10	0.750	0.413	1.181	0.315	M10xP1.50	Yes
1000M12-09T4C			●	4	10	1.000	0.492	1.378	M12xP1.75			
1250M16-09T5C			●	5	10	1.250	0.669	1.575	M16xP2.00			
MA90- 1000M12-12T2C			●	2	10	1.000	0.492	1.378	0.472	M12xP1.75	Yes	LOGU1206...
1250M16-12T3C			●	3	10	1.250	0.669	1.575		M16xP2.00		

**MA90** (Face Mills) [LOGU09 / LOGU12... Inserts]

Image	Cutter Body Part Number	Std. Item	No. of Inserts	Insert Purchase Requirement	Dimensions (in)		Coolant Hole	Applicable Inserts Page 4
					Cutting Dia. DC	Max. D.O.C. APMX		
	MA90- 1500R-09T5C	●	5	10	1.500	0.315	Yes	LOGU0904...
	1500R-09T6C	●	6	10				
	2000R-09T6C	●	6	10				
	2000R-09T7C	●	7	10				
	2500R-09T7C	●	7	10				
	2500R-09T9C	●	9	10				
	MA90- 1500R-12T3C	●	3	10	1.500	0.472	Yes	LOGU1206...
	1500R-12T4C	●	4	10				
	2000R-12T4C	●	4	10				
	2000R-12T6C	●	6	10				
	2500R-12T6C	●	6	10				
	2500R-12T8C	●	8	10				
	3000R-12T8C	●	8	10				
	3000R-12T10C	●	10	10				

LOGU

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Usage Classification		Carbon steel / Alloy steel		★		☆		P												
		Mold and die steel		★		☆														
★: 1st Recommendation ☆: 2nd Recommendation (Hardness 45HRC or less)		Austenitic stainless steel		☆		★		M												
		Martensitic stainless steel		★		☆														
		Precipitation hardened stainless steel				★														
		Gray cast iron				★				K										
		Nodular cast iron				★														
		Heat-resistant alloy		★				☆		S										
		Titanium alloy						★												
Hard materials (≤ 60 HRC)				★				H												
Insert	Part Number	No. of Edges	Dimensions (mm)						CVD Coating	MEGACOAT HARD	MEGACOAT NANO EX (PVD Coating)			Applicable Cutter Body Page 3						
			W1	S	D1	INSL	BS	RE	CA6535	PR0155	PR1810	PR1825	PR1835							
 General Purpose (G-Class)	LOGU 090404ER-GM	4	4.3	6.77	3.33	8.89	1.29	0.4	●		●	●	●	MA90-...-09-...						
	LOGU 090408ER-GM														6.71	0.90	0.8	●	●	●
	LOGU 090412ER-GM														6.65	0.49	1.2	●	●	●
	LOGU 090416ER-GM														6.59	0.10	1.6	●	●	●
 Low Cutting Force (G-Class)	LOGU 090404ER-SM	4	4.3	6.77	3.33	8.89	1.29	0.4	●			●	●							
	LOGU 090408ER-SM														6.71	0.89	0.8	●	●	●
	LOGU 090412ER-SM														6.65	0.49	1.2	●	●	●
	LOGU 090416ER-SM														6.59	0.10	1.6	●	●	●
 Tough Edge (G-Class)	LOGU 090408ER-GH	4	4.3	6.71	3.33	8.89	0.90	0.8		●	●	●	●							
 General Purpose (G-Class)	LOGU 120604ER-GM	4	6.6	10.10	4.55	13.28	2.50	0.4	●		●	●	●		MA90-...-12-...					
	LOGU 120608ER-GM													10.04		2.14	0.8	●	●	●
	LOGU 120612ER-GM													9.97		1.79	1.2	●	●	●
	LOGU 120616ER-GM													9.92		1.44	1.6	●	●	●
	LOGU 120620ER-GM													9.85		1.08	2.0	●	●	●
	LOGU 120624ER-GM													9.79		0.72	2.4	●	●	●
	LOGU 120630ER-GM													9.69		0.20	3.0	●	●	●
 Single-Sided General Purpose (G-Class)	LOGT 120640ER-GM	2	6.6	9.56	4.55	13.28	1.69	4.0	●		●	●	●							
	LOGT 120650ER-GM													9.40		0.63	5.0	●	●	●
	LOGT 120660ER-GM													9.24		0.37	6.0	●	●	●
 Low Cutting Force (G-Class)	LOGU 120604ER-SM	4	6.6	10.10	4.55	13.28	2.50	0.4	●			●	●							
	LOGU 120608ER-SM														10.04	2.14	0.8	●	●	●
	LOGU 120612ER-SM														9.97	1.79	1.2	●	●	●
	LOGU 120616ER-SM														9.92	1.44	1.6	●	●	●
	LOGU 120620ER-SM														9.85	1.08	2.0	●	●	●
	LOGU 120624ER-SM														9.79	0.72	2.4	●	●	●
 Tough Edge (G-Class)	LOGU 120608ER-GH	4	6.6	10.16	4.55	13.25	2.26	0.8		●	●	●	●							

● : Standard Item

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