

# Artsen CM / PM II Series

Artsen CM 500 / 400 II (R)

Artsen PM 500 / 400 F / N / AS / AD II (R)

Full Digital-control Heavy-duty Pulse MIG/MAG/CO<sub>2</sub> Intelligent Welding Equipment



## Product Features

- Independent operation panel and display in the wire-feeder, allowing convenient check and adjustment of welding parameters.
- Synchronous driving with 2 motors, flexible torch configuration, expansion capability with mid-way wire-feeder and push-pull torch. Practical for welding operation of long distance and in narrow space.
- Professional performance for materials, including carbon steel, stainless steel, aluminum alloy with DC, Pulsed DC and Double Pulsed DC process.
- Up to 50 channels with non-delay switch; up to 200 defect records bringing higher convenience to identify the on-site troubles.
- Abundant internal menu and specification opened to adjustment, meeting extreme welding demands.
- Diversified expert system and specialized program for aluminum welding ensuring the optimum welding result for different types of aluminum alloy.
- Full digital control at high speed, monitoring each phase of the metal transfer, achieving "One Pulse, One Droplet" precisely for a satisfactory welding result of extremely controlled spatter.
- Rich welding expert database; synergic adjustment allows automatic matching of key parameters and satisfactory welding result.
- Parameters of each welding steps open to adjustment, ensuring precise adjustment for different working conditions and achieve better welding quality.
- Upgradable process program to realize high efficiency welding of various special metal materials, such as high strength steel Q690, silicon bronze and aluminum bronze.

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## Specification

Manual	Artsen PM 500 F / N / AS / AD II	Artsen CM 500 II	Artsen PM 400 F / N / AS / AD II	Artsen CM 400 II
Robotics	Artsen PM 500 F / N / AS / AD R II	Artsen CM 500 R II	Artsen PM 400 F / N / AS / AD R II	Artsen CM 400 R II
Control Mode	Full Digital-Control			
Rated Input Voltage	AC 3PH 380V +/-25% (3PH 285V ~ 3PH 475V)			
Input Frequency	30 ~80 HZ			
Rated Input Power	24 KVA	22.3 KVA	19.7 KVA/18KW	15 KVA/12.7KW
Power Factor	0.93			
Efficiency	87%			
Rated OCV	73.3 V			63.7 V
Rated Output Current	30 ~ 500 A	30 ~ 500 A	30 ~ 400 A	30 ~ 400 A
Rated Output Voltage	12 ~ 45 V (Precision at 0.1V)			
Duty Cycle	500A 60% @ 40°C 390A 100% @ 40°C	500A 60% @ 40°C 390A 100% @ 40°C	400A 100% @ 40°C	400A 100% @ 40°C
Applicable Material	F: Carbon Steel N: Carbon Steel / Stainless Steel AS/AD: Carbon Steel / Stainless Steel / Aluminum Alloy	Carbon Steel	F: Carbon Steel N: Carbon Steel / Stainless Steel AS/AD: Carbon Steel / Stainless Steel / Aluminum Alloy	Carbon Steel
Welding Process	VMIG / MAG / CO <sub>2</sub> Pulse MIG / MAG Double Pulse MIG / MAG	MIG / MAG / CO <sub>2</sub>	MIG / MAG / CO <sub>2</sub> Pulse MIG / MAG Double Pulse MIG / MAG	MIG / MAG / CO <sub>2</sub>
Wire Diameter	φ 0.8 / 1.0 / 1.2 / 1.6 mm		φ 0.8 / 1.0 / 1.2 mm	
Welding Operation Mode	2T / 4T / Special 4T / Spot Welding			
Parameter Channel	50 (Standard)			
Inductance Scope (Soft / Strong Arc)	-9 ~ +9			
Push-pull Torch Function (1)	Yes			
Communication with Robot Controller	Analog; DeviceNet; CAN Open; MEGMEET CAN; EtherNet/IP (2)			
Digital Meter on Wire-feeder	Yes			
Cooling Mode	Air Cool; Water Cool (Optional)			
Electromagnetic Compatibility	IEC60974:10 EMS			
Insulation Grade	H			
Ingress Protection	IP 23S			
Protection Against Lightning	Class D (6000V/3000A)			
Working Temperature & Humidity	-39°C ~ +50°C ; Humidity ≤ 95%;			
Dimension (L / W / H)	620 x 300 x 480 mm			
Gross Weight	52 KG			

Water Cooler (Optional)	
Rated Power	260W
Rated Voltage	AC 400V
Volume of Cooling Water	10L
Flow of Cooling Water	3.5L / min
Max Pump Head	30 m
Flow Alarm	Yes

(1) Please contact with MEGMEET to specify the model of the push-pull torch.

(2) EtherNet/IP is optional.

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*One Equipment for Aluminum Alloy, Stainless Steel and Carbon Steel*



**MEGMEET**  
WELDING TECHNOLOGY