

# Artsen Pulse / Double Pulse for Alloy / Mild Steel / S/S

Artsen Pro 500H / 500 / 400 D / P / Q



Ideal for heavy-duty

- LSA for low-spatter MAG & CO2 welding of carbon steel, and MAG welding of SUS;
- Thunder Fusion for short-arc pulse MIG/MAG welding of carbon steel, esp. thick plate with good penetration;
- Thunder Fusion for short-arc pulse & double-pulse MIG/MAG welding of SUS, aluminum and alloys.
- Consistent penetration for stick-out variations at pulse mode;
- Root Fusion for root welding with stabilized arc control;
- Anti-interference capability, esp. convenient for automation;
- Remote controller optional for welding automation.
- Supporting push-pull torch;
- Convenient updating with USB port;



## Welding Process:

1. LSA
2. Thunder Fusion
3. Consistent Fusion
4. Root Fusion

## Application Industries:

1. Construction machinery;
2. Automotive & Tiers;
3. Power & energy;
4. Railway & locomotive;
5. General steel fabrication;

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## Specification

Manual	Atsen Pro 500H D / P / Q	Atsen Pro 500 D / P / Q	Atsen Pro 400 D / P / Q
Control Mode	Full Digital-Control	Full Digital-Control	Full Digital-Control
Rated Input Voltage	3PH 380V +/-25% (3PH 250V ~ 3PH 475V)	3PH 380V +/-25% (3PH 250V ~ 3PH 475V)	3PH 380V +/-25% (3PH 250V ~ 3PH 475V)
Input Frequency	45 ~65 HZ	45 ~65 HZ	45 ~65 HZ
Rated Input Power	24 KVA / 22.3 KW	24 KVA / 22.3 KW	16 KVA / 14 KW
Power Factor	0.93	0.94	0.94
Efficiency	87%	87%	87%
Rated OCV	85 V	85 V	85 V
Output Current Range	30 ~ 500 A	30 ~ 500 A	30 ~ 400 A
Rated Output Voltage	12 ~ 45 V (Precision at 0.1V)	12 ~ 45 V (Precision at 0.1V)	12 ~ 45 V (Precision at 0.1V)
Duty Cycle	500A / 39V 100% @ 40°C	500A / 39V 60% @ 40°C 387A / 33.5V 100% @ 40°C	400A / 34V 100% @ 40°C
Applicable Material	D: Carbon Steel (Mild Steel) / Stainless Steel P: Carbon Steel (Mild Steel) / Stainless Steel Q: Carbon Steel (Mild Steel) / Stainless Steel / Aluminum Alloy		
Welding Process	D: Synergic MIG / MAG ; Low-spatter Arc; P: Synergic MIG / MAG ; Low-spatter Arc; Thunder Fusion (Short-arc Pulse) Q: Synergic MIG / MAG ; Low-spatter Arc; Thunder Fusion (Short-arc Pulse)		
Wire Diameter	φ 0.8 / 0.9 / 1.0 / 1.2 / 1.6 mm		
Welding Operation	2T / 4T / Special 4T / Spot Welding / Leaping Welding		
Inductance Scope (Soft / Strong Arc)	-7 ~ +7		
Parameter Channel	89		
Push-pull Torch Function <sup>(1)</sup>	Yes		
External Manual Wire-feeder	Euro-type with Euro connector (four roller)		
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 Lightening	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	57.5 KG		
Wire Feeder Weight	14.5 KG		

Water Cooler Anycool-68 (Optional)	
Rated Power	260W
Rated Voltage	AC 400V +/-10%
Volume of Cooling Water	10L
Flow of Cooling Water	3.5L / min
Max Pump Head	26 m
Flow Alarm	Yes

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