



## MEGMEET ARTSEN PLUS 500Q MIG Welding Machine 3PH/415V

### Description

- Based on the robust Artsen series, Artsen Plus is elevated with inverter frequency of 100K HZ, super high-speed sampling and highly precise control.
- Applying worm gear motor of high torque and low inertia, and the highly precise code wheel of 120 lines and the HF motor control system. Start-up, braking and withdrawal at millisecond level are reached. Withdrawal at both the arc ignition and ending stage are controlled precisely. Together with the welding parameter control, optimum arc ignition and crater performance are gained.
- A stable and comprehensive hardware platform of high speed. The open software system makes it possible to expand process control program for different welding conditions and collect expert database, meeting continuously updating process demands from customers.
- Capable of multiple welding processes, as well of combination and switch between different process in order to face the changing welding challenges.
- Equipped with USB port for upgrading, ensuring access to the most advanced welding process developed by MEGMEET and the most suitable welding software to face different welding conditions.
- Capable to work with multiple industrial robots thru multiple robotic protocol.

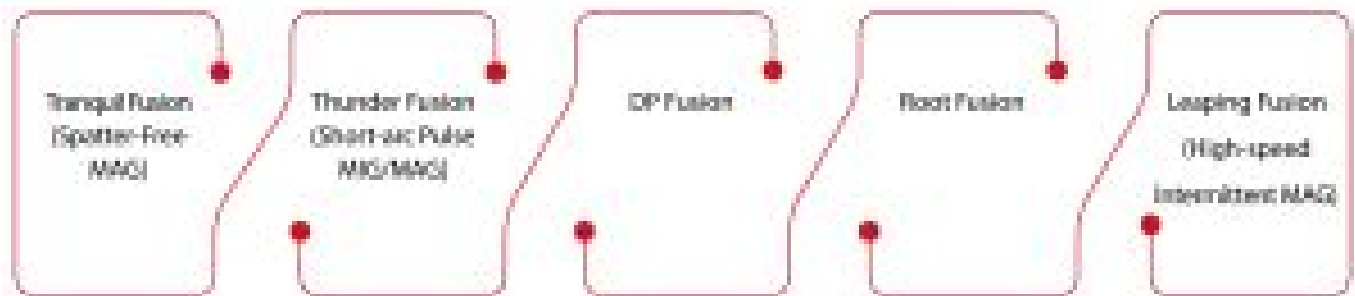
### Specification

<b>Model</b>	<b>ARTSEN PLUS 500Q</b>
<b>Control Mode</b>	<b>Full Digital Control</b>

Model	ARTSEN PLUS 500Q
Input Frequency	45 ~ 65Hz
Rated Input Power	24 KVA
Power Factor	0.93
Efficiency	87%
Rated OCV	85V
Max Output Current	500A
Rated Output Current	30A ~ 500A
Rated Output Voltage	12V ~ 45V (Precision at 0.1V)
Duty Cycle (40Â°C / 10 min)	500A / 39V 60% @40Â°C 387A / 33.5V 100% @40Â°C
Wire Diameter	â??0.8 / 0.9 / 1.0 / 1.2 / 1.6 mm
Welding Operation Mode	2T / 4T / Special 4T / Spot Welding / Intermittent Welding
Electromagnetic Compatibility	EN60974-10 EMC
Insulation Grade	H
Ingress Protection	IP23S
Protection Against Lightening	Class D (6000V / 3000A)
Working Temperature	-39Â°C ~ +50Â°C; Humidityâ??95%
Welding Process	Synergic, Tranquil Fusion, Thunder Fusion, Leaping Fusion, DP Fusion
Material	Steel, Stainless Steel, Aluminium
Gross Weight (kg)	57.5
Dimension (mm)	620 x 300 x 480
Industrial Application	Automotive & Railway, Construction & Mining Machinery, Ship-building & Marine Engineering, Heavy Steel Construction, Shipping Container

## Advanced Welding Processes of Artsen Plus Series

Artsen Plus is capable of multiple welding modes and provides more suitable welding solution for welding of higher efficiency, thinner sheets, thicker plate or more various metal materials



### Tranquil Fusion (Low Spatter Welding)

- Soft welding arc with tranquil welding pool and superbly low spatter
- Remarkable welding junction with lowered defects of blowhole and undercut. Suitable for high quality root welding at all welding position
- Low heat input and strong in gap-filling

### Thunder Fusion (Short Arc Pulse Welding)

- Spatter free with thunder fusion, low heat-input
- Short in transfer arc, higher in transfer frequency, stronger in anti-interference capability
- More friendly to robotic welding with high arc stiffness and shape arc

### DP Fusion (Vertical Up Welding)

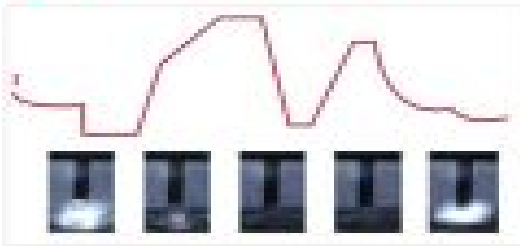
- Highly applicable for vertical-up welding without weaving
- Highly suitable for full position welding of plates over 2.5mm, especially with robotics and welding automation
- More precise control of heat input and welding information
- Obvious changes in energy. Fast in welding cycle

### Leaping Fusion (High-speed Intermittent Welding)

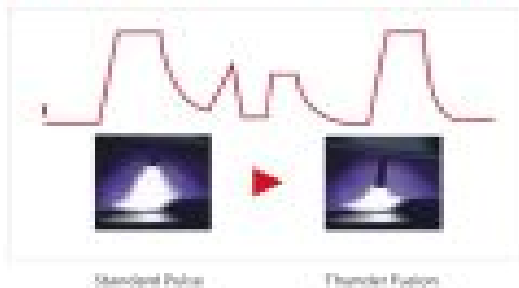
- Welding arc starts quickly and ends sharply, achieving clear fish-scale welding appearance
- High tolerance over in-consistent cutting results. Very suitable for welding of gaps and at all-position

- o Suitable for the bicycle industry where fish-scale results are requested for carbon steel

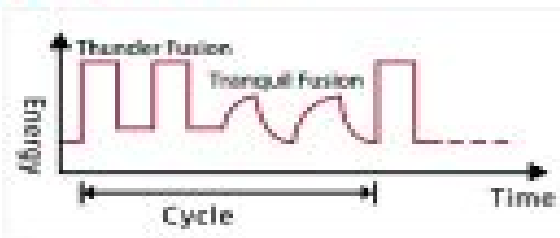
 **Tranquil Fusion**



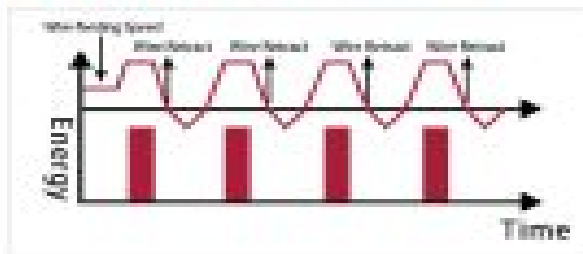
 **Thunder Fusion**



 **DP Fusion**



 **Leaping Fusion**



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