



## MEGMEET METATIG 315 DC MIG Welding Machine 3PH/415V

### Description

- Wide applications: supporting carbon steel, stainless steel, alloy steel and other metal materials;
- Comprehensive functions with pulse DC TIG, high-speed TIG spot welding, MMA and others;
- Full digital intelligent control is adopted. Internal background menu is open and adjustable to better satisfy more technological requirements of various working conditions;
- VRD anti-shock function with adjustable arc force and better arc stiffness in MMA mode;
- IOT interface is reserved to quickly access to Megmeet SMARC management platform or the third-party welding data system to realize efficient welding interconnection;
- Communication interface is reserved to support multiple types of communication protocols to connect with different brands of robots and automation devices;
- Software is upgradable through U-disk interface to help customers easily obtain Megmeet foremost welding process or customized functions;
- Optional foot switch, water-cooler, water-cooled torch, trolley, etc.

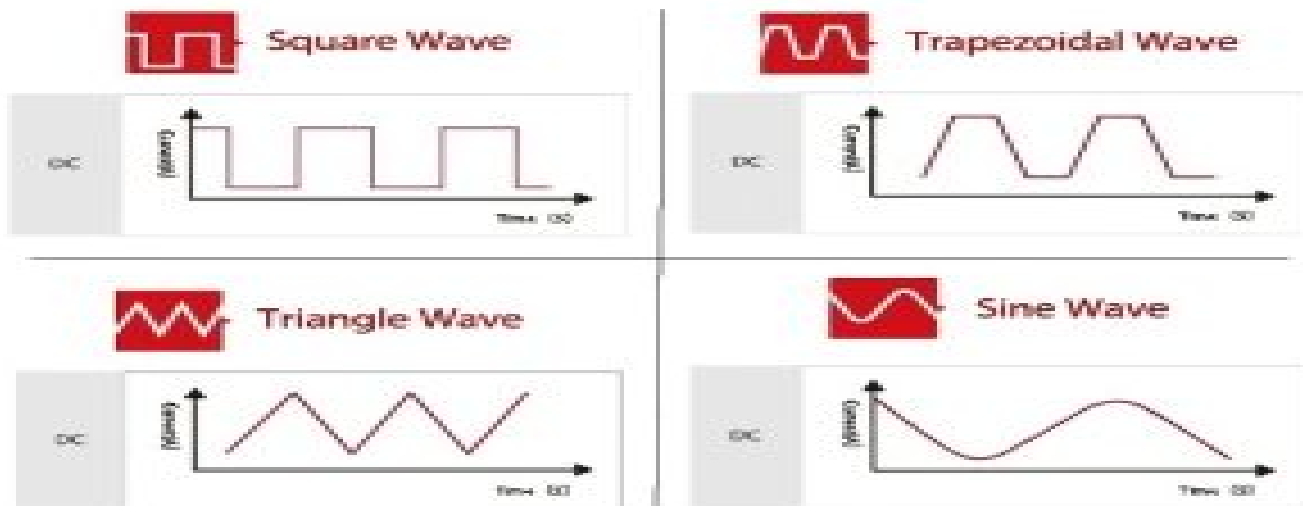
### Specification

<b>Model</b>	<b>META TIG315 DC</b>
<b>Control Mode</b>	Full Digital IGBT Control
<b>Rated Input Voltage</b>	3 Phase AC 380v (±25%)
<b>Input Frequency</b>	45 ~ 70 Hz

<b>Model</b>	<b>META TIG315 DC</b>
<b>Inverter Switching Frequency</b>	110 KHz
<b>Rated Input Capacity</b>	12.5 KVA / 11.4 KW
<b>Power Factor</b>	0.94
<b>Efficiency</b>	91%@315 A
<b>Rated Output No-Load Voltage</b>	68 V
<b>Rated Output Current</b>	315 A
<b>Rated Output Voltage</b>	22.6 V
<b>Set Current Range</b>	DC TIG 3-315A MMA 30-315A
<b>Parameter Channel</b>	50
<b>Duty Cycle</b>	100%@315A
<b>DC Pulse Frequency</b>	0.1 – 3000Hz
<b>Pulse Width</b>	1 – 99%
<b>Arc Striking Method</b>	High-frequency arc / Lifting arc
<b>Rise Time</b>	0 – 20s Continuous regulation (0.1 increment)
<b>Fall Time</b>	0 – 20s Continuous regulation (0.1 increment)
<b>Pre-gas Time</b>	0 – 25s Continuous regulation (0.1 increment)
<b>Post-gas Time</b>	0 – 25s Continuous regulation (0.1 increment)
<b>Output Terminal</b>	Quick Plug
<b>Cooling Method</b>	Forced-Air
<b>Insulation Grade</b>	H
<b>Ingress Protection</b>	IP23
<b>Gross Weight (kg)</b>	37
<b>Dimension (mm)</b>	647 x 291 x 572

<b>Model</b>	<b>META TIG315 DC</b>
	Carbon Steel, Stainless Steel, Titanium Alloy, etc
<b>Material</b>	
	Automotive & Railway, Construction & Mining Machinery, Ship-building & Marine Engineering, Heavy Steel Construction, Shipping Container
<b>Industrial Application</b>	IoT, SMART, System (Optional), USB Upgrade, Robot (Optional), LCD Front Panel (Optional)
<b>Extension Function</b>	

**Multiple Waveform controls provide optimal combination according to welding needs**



- **Square Wave** – Precise control in current waveform and accurate adjustment in parameters of peak current, base current, frequency and others, with high arc stability and good dynamic characteristics, applicable for various stainless steel welding.
- **Trapezoidal Wave** – Soft arc brings good wetting effect to fusion pool, suited to groove welding and overhead welding.
- **Triangle Wave** – Short peak-time and low heat-input, suitable for thin sheet welding.
- **Sine Wave** – Arc noise is smaller and softer

## Extensive Welding Process

Welding Process Type	Welding Process Name	Advantage	Material	Industry
DC TIG	DC TIG	Stable arc, high adaptability for gap, easier for one-sided welding and double-sided forming	Carbon steel, Stainless Steel, Titanium Alloy, etc	Petrochemical, pressure pipeline & vessel backing weld, etc

DC PULSE TIG	DC-Pulse TIG	Low heat input, beautiful fish-scale shape is available, pulse frequency up to 3000Hz	Carbon steel, Stainless Steel, Titanium Alloy, etc	Sheet metal and welding occasions with requirements for heat input and weld form, etc
MMA	MMA	Easy arc start, non-stick with rod, softer arc & less spatter, and beautiful weld shape	Carbon Steel, Alloy Steel, Stainless Steel, etc.	Boiler, pressure vessel, petrochemical industry, pressure pipeline, outdoor construction, etc.