



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

### Description

- Comprehensive applications: carbon steel, 9Ni, stainless steel, alloy steel, copper, magnesium alloy, aluminum, AL alloy and others, adaptive for dissimilar-metal welding;
- Extensive functions with AC-DC TIG, AC-DC Pulse TIG, high-speed TIG spot welding and MMA;
- 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 in MMA mode and better arc stiffness;
- IOT interface is reserved to quickly access to Megmeet SMARC management platform or the third-party welding data management system to realize efficient welding interconnection;
- Communication interface is reserved to support multiple types of communication protocols to connect with various brands of robots and automation devices;
- Software is up-gradable 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

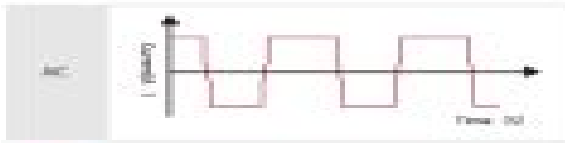
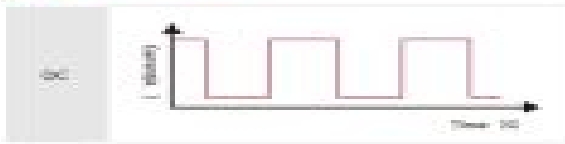
<b>Model</b>	<b>META TIG315 ACDC</b>
<b>Control Mode</b>	Full Digital IGBT Control
<b>Rated Input Voltage</b>	3 Phase AC 380V (+25%)

<b>Model</b>	<b>META TIG315 ACDC</b>
<b>Input Frequency</b>	40 ~ 70 Hz
<b>Inverter Switching Frequency</b>	110 KHz
<b>Rated Input Capacity</b>	12.9 KVA / 11.4 KW
<b>Power Factor</b>	0.94
<b>Efficiency</b>	88%@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 AC TIG 4-315A MMA 30-315A
<b>Parameter Channel</b>	50
<b>Duty Cycle</b>	100%@315A
<b>DC Pulse Frequency</b>	0.1 – 3000Hz
<b>AC Pulse Frequency</b>	20 – 300Hz
<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

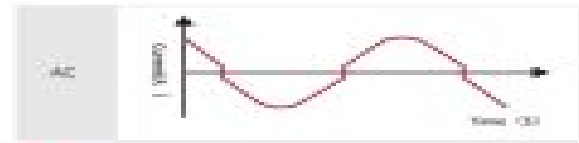
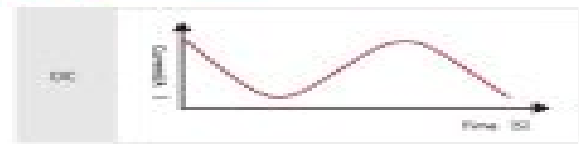
<b>Model</b>	<b>META TIG315 ACDC</b>
<b>Ingress Protection</b>	IP23 S
<b>Gross Weight (kg)</b>	40
<b>Dimension (mm)</b>	647 x 291 x 572
<b>Material</b>	Carbon Steel, Stainless Steel, Aluminium Alloy, Copper
<b>Industrial Application</b>	Automotive & Railway, Construction & Mining Machinery, Ship-building & Marine Engineering, Heavy Steel Construction, Shipping Container IOT SMARC System (Optional),
<b>Extension Function</b>	USB Upgrade, Robot (Optional), LCD Front Panel (Optional)

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

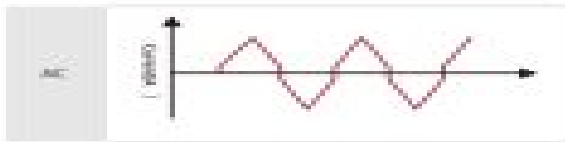
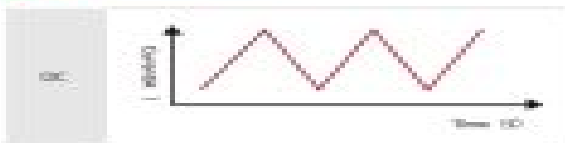
### Square Wave



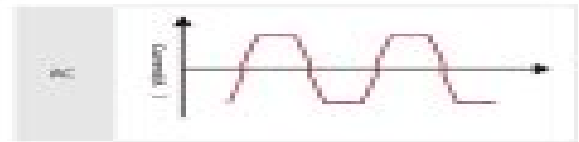
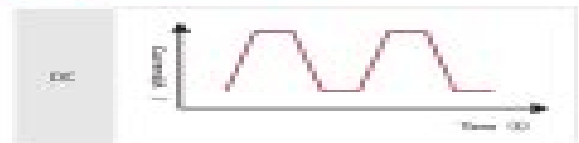
### Sine Wave



### Triangle Wave



### Trapezoidal Wave



- **Square Wave** – DC/AC square wave, polarity fast-switching, high-stability of arc, good dynamic characteristics, strong ability to clean aluminium oxide film, suitable for a wide range of aluminium and aluminium alloy welding.
- **Trapezoidal Wave** – DC/AC trapezoidal wave, polarity stable-switching, soft arc brings good wetting effect to fusion pool, applicable for groove welding and overhead welding
- **Triangle Wave** – Short peak-time and low heat-input, suited to welding of thermo-sensitive metals as thin plate
- **Sine Wave** – DC/AC sine wave, rectangular transition at zero-crossing point, less and softer arc noise

## Extensive Welding Process

Welding Process Type	Welding Process Name	Advantage	Material	Industry
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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 Aluminium alloy pipelines, bicycle frame welding with high appearance requirements, etc.
AC TIG	AC TIG	Stable arc, AC frequency up to 300Hz	Aluminium, Aluminium Alloy, Magnesium, etc	Aluminium alloy thin-plate and welding occasion requiring heat input and weld forming, etc. Aluminium alloy medium & thick plates and welding occasions requiring depth of penetration, etc
AC TIG PULSE	Double Pulse AC TIG	Low heat input, clear fish-scale welding shape	Aluminium, Aluminium Alloy, Magnesium, etc	
AC-DC TIG PULSE	Double-pulse AC-DC TIG	Deeper penetration and less tungsten loss	Aluminium Alloy, Aluminium, Magnesium, 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.
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