

- Fully Digital-control Industrial & Heavy-duty Welding Equipment

MEGMEET Welding Technology

Powering the Future

www.megmeet-welding.com



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Company Profile

Pioneering
Collaboration
Openness
Innovation



Established in 2003, MEGMEET Electrical Co. Ltd. (Stock Code: 002851.sz) is a China National High-tech Enterprise focusing on power electronics and industrial control technology and engaging in the R&D, manufacturing, sales and services of hardware, software and system solutions in the field of electrical and industrial automation. Headquartered in Shenzhen, China, the company has operations in over 40 countries and employs 5,200+ employees. We are committed to improving energy efficiency with the purpose of empowering the world to increase productivity while reducing environmental impact, and thus changing the life of human beings and the environment for the better.

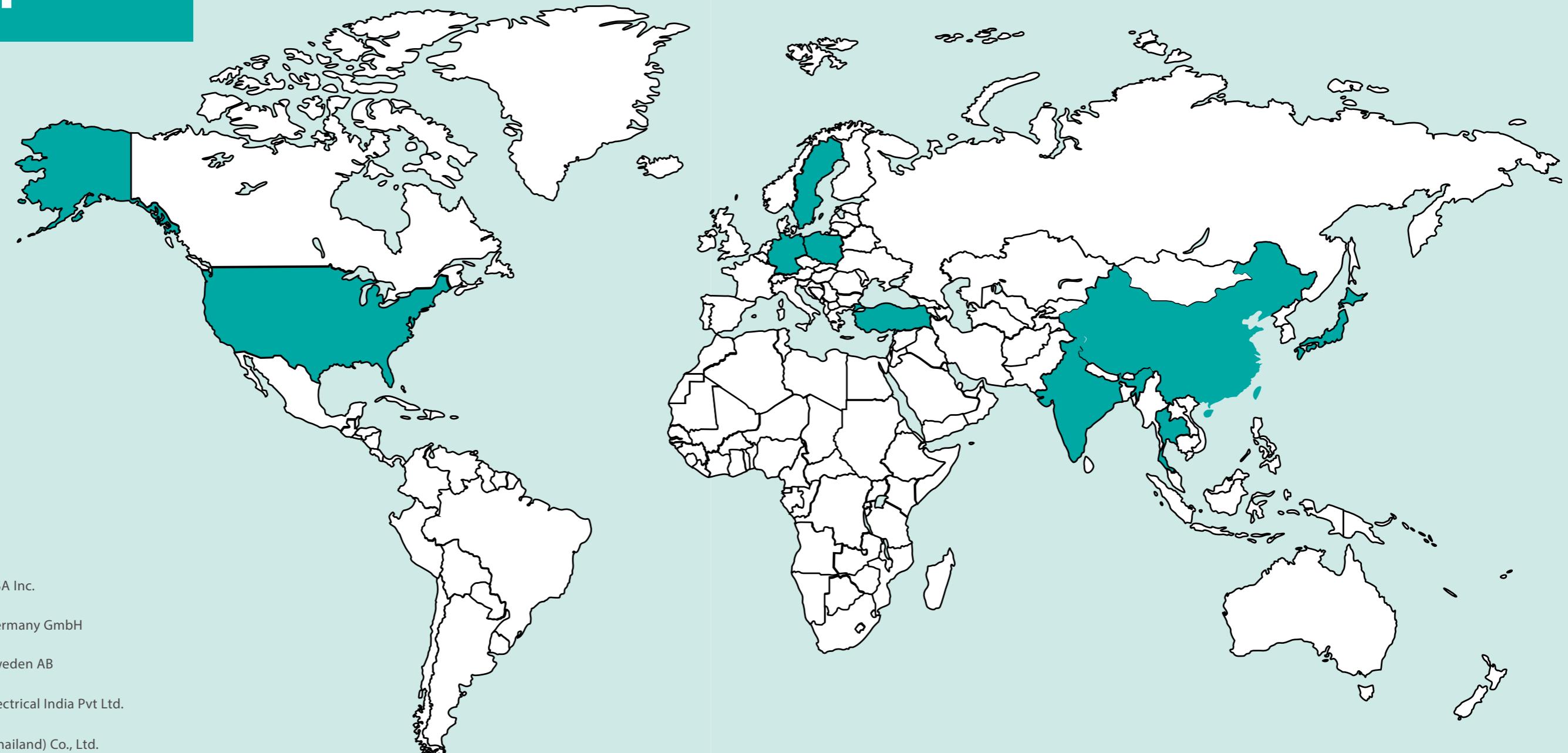


MEGMEET operates in the business segments of industrial automation, electrical vehicles & rail transit, smart home appliances and high-end intelligent manufacturing. We serve various industries, including but not limited to healthcare, telecommunication, IT, electricity, transportation, photovoltaics, oil exploration, police equipment, industrial welding, industrial microwave, inverter air-conditioning, inverter microwave, commercial display screens and smart sanitary ware etc. Our products are sold in over 40 countries around the globe, including countries of high technology criteria like the U.S.A., Germany, Japan, Sweden, South Korea, etc.

Technological innovation has been at the core of MEGMEET since its inception and has fueled the growth of the company. MEGMEET has been investing heavily in R&D with yearly spending equivalent to over 10% of its annual sales revenue. The company employs 1000+ R&D engineers, creates comprehensive and well-equipped software and hardware platforms to develop, test and manufacture products. By the end of 2020, MEGMEET has 597 patent grants. The company has established a global R&D network with locations in Sweden, Germany, and in the Chinese cities of Shenzhen, Xi'an, Wuhan, Changsha, Zhuzhou and Taizhou. Manufacturing facilities are located domestically in the cities of Zhuzhou, Taizhou, Zibo, Heyuan and abroad in India and Thailand.

In an effort to provide better products and services to our customers, MEGMEET has restructured its welding division and transformed it into a subsidiary named MEGMEET Welding Technology Co. Ltd. With integrated multidisciplinary knowledge and technologies, MEGMEET redefines the standards for reliability and stability of inverter welding equipment to provide our customers with more efficient, more reliable, more energy-saving and smarter welding machines. MEGMEET has built a reputation as a trustworthy supplier with its quality products and services and has become one of the preferred brands of industrial welding equipment in the market.

Global Footprints



 MEGMEET USA Inc.

 MEGMEET Germany GmbH

 MEGMEET Sweden AB

 MEGMEET Electrical India Pvt Ltd.

 MEGMEET (Thailand) Co., Ltd.

 MEGMEET Turkey

 MEGMEET Poland

 MEGMEET Japan

Core Business

MEGMEET

“ MEGMEET's powerful multidisciplinary platform integrated with technology and engineering enables us to serve our global customers with industry expertise, quality products and optimal solutions. ”

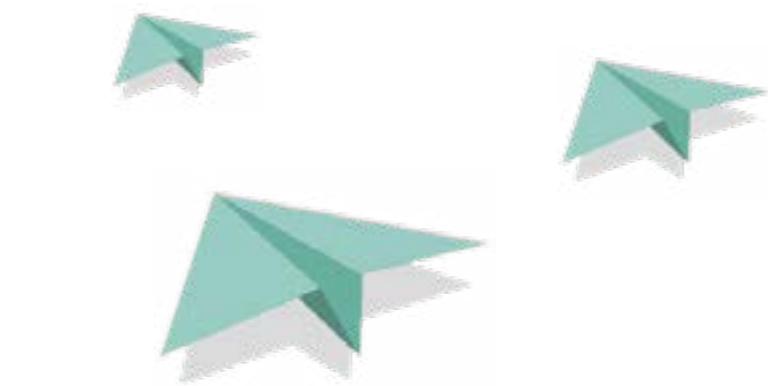
Innovation for the Future

Smart Manufacturing

- ◎ Industrial & Digital-control Welding Equipment
- ◎ Industrial Microwave System
- ◎ Electric Submersible Oil Pumping System
- ◎ Optical Fiber Flexible Bend Sensor

Industrial Power Supply

- ◎ Power Supply for ICT
- ◎ Electric Power Supply
- ◎ Power Supply for Medical Devices
- ◎ Power Supply for Industrial Microwave
- ◎ Customized Power Supply for Industries



Industrial Automation

- ◎ Inverter
- ◎ Servo
- ◎ PLC
- ◎ Controller for Injection Molding Machine & CNC
- ◎ Frame Power Supply
- ◎ Integrated Driver for Elevator

EV & Railway

- ◎ Drive and Control Modules for EV
- ◎ Charging Station Modules
- ◎ Drive, Control & AC Modules for Railway

Power Supply for Smart Home Appliances

- ◎ Visual Display
- ◎ HVAC
- ◎ Kitchen Appliances
- ◎ Smart Sanitary Ware



Research and Development

MEGMEET'S relentless pursuit of innovation is best reflected in our R&D efforts. The company invests more than 10% of its sales revenue in R&D each year and has developed innovative cutting-edge technologies, leading laboratories and a team of industry experts around the world. Equipped with unique insights into industry outlook and a deep understanding of customers' needs, MEGMEET is in a position to address customers' needs with competitive products in a fast and accurate way.



Efficient & Stable R&D Team

1000+

R&D Engineers

300+

Technological Innovations led by staff holding Master and PhD Degrees

9

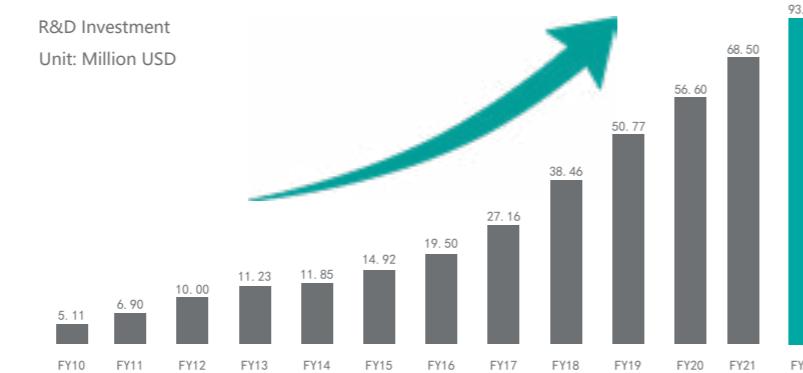
R&D Centers

R&D Centers & Institutes

- ◎ Shenzhen R&D Center ◎ Zhuzhou R&D Center ◎ Changsha Institute ◎ Wuhan Institute
- ◎ Xi'an Institute ◎ Hangzhou R&D Center ◎ Taizhou R&D Center ◎ Germany Institute
- ◎ Sweden Institute



R&D investment equivalent to 10% of our sales revenue



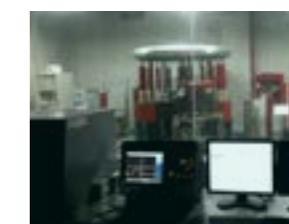
Leading Technological Platform



Professional Testing Laboratories



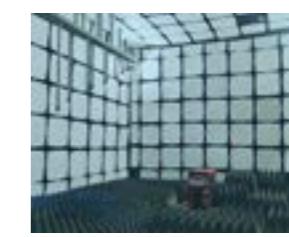
- ◎ Environmental Testing Laboratory
- ◎ IPX1-9K Laboratory
- ◎ 15P Enthalpy Difference Laboratory



- ◎ Design Verification Laboratory
- ◎ Power Test Laboratory for EV
- ◎ Lightening & Surge Testing Laboratory



- ◎ Electromagnetic Interference Laboratory
- ◎ Aging Chamber
- ◎ Salt Spray Testing Laboratory



- ◎ Power Grid Simulation Laboratory
- ◎ Temperature & Humidity Laboratory
- ◎ Vibration Test Laboratory

Production Capacity

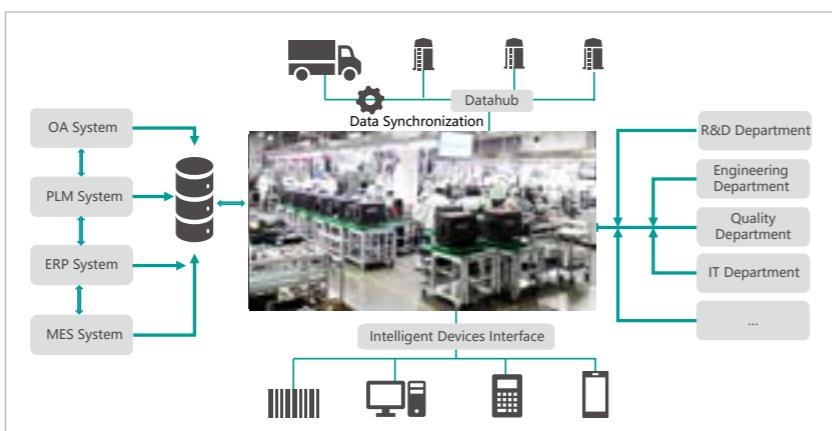


Production capacity up to USD 1.5 Billion

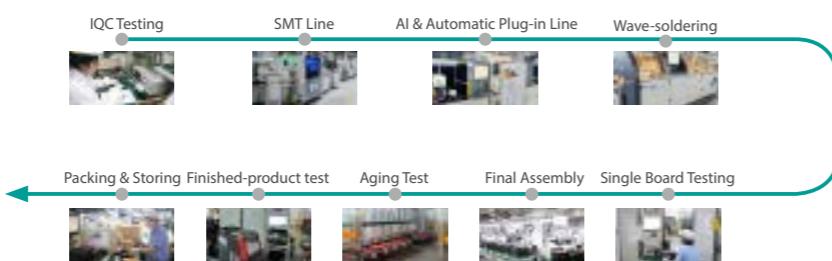


Factory Digitalization

MEGMEET owns several production facilities around the world, among which the Zhuzhou Industrial Park is the global manufacturing center for the company's electronic products. Manufacturing digitalization has been implemented in Zhuzhou Industrial Park to provide life cycle management for all products.



Manufacturing Process



Manufacturing Facilities

Manufacturing facilities have been established in different countries to improve customer responsiveness.

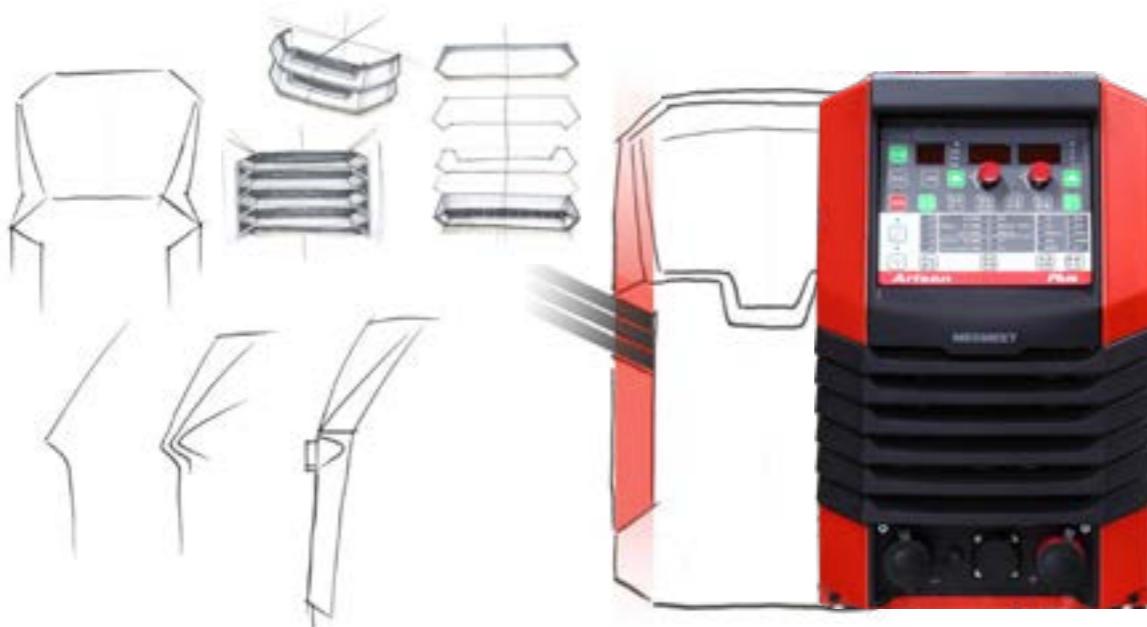


Business Philosophy

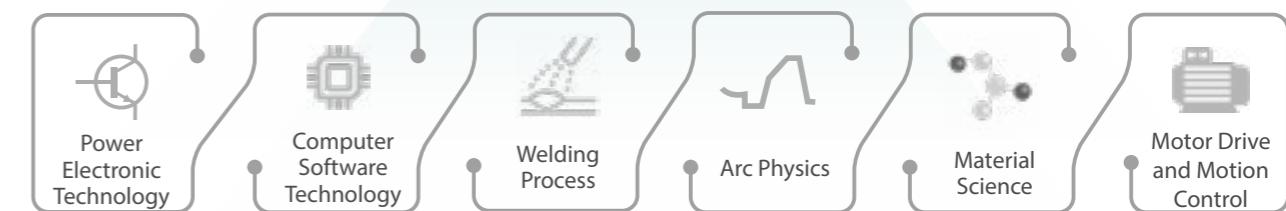
"We strive to become a trusted and preferred partner to our customers by delivering highly reliable welding products and solutions."



High-performance Digital-control Welding Equipment



Industry-tailored applications
Welding expert database
Welding process modeling



MEGMEET's cross-border integration of multidisciplinary and engineering technologies

Application in Professional Welding & Key Industries



Automotive & Railway

- CRRC
- BYD Auto
- Wuling Faurecia
- Yutong
- CIMC
- Fuwa
- SAIC
- JBM (India)
- DIT Holding
- NANFU Aluminum
- Q J MOTOR
- Loncin
- Sheng Run Automobile
- Sunhunk
- Hong Tai
- Yate Auto



Construction & Mining Machinery

- SANY
- XCMG
- ZOOLION
- Sunward
- LIUGONG
- ZMJ
- CRCHI (CRRC)
- NFLG
- Schwing Stetter
- SD-Gold
- MESDA



Ship-building & Marine Engineering

- CSSC
- CNOOC
- CIMC Raffles
- DAMEN
- ZPMC
- COSCO
- Yangzijiang
- New Times Shipbuilding
- New Dayang Shipbuilding (SUMEC)
- Xiang Yu
- CSE (Chiwan Sembawang Engineering)



Heavy Steel Construction

- CSCEC
- Hong Lu Steel Structure
- BSB (Broad Sustainable Building)
- Bo Rui Heavy Traffic Equipment
- Fu Huang
- Jing Gong
- Hang Xiao Steel Structure
- Dong Fang Steel Structure



Shipping Container & others

- CIMC
- FUWA
- OCCL
- Midea
- TBEA
- State Grid Corporation of China
- CXIC
- Hangyang
- JZNEE
- Zhongwang
- CHINALCO (CSCEC)
- China Southern Power Grid
- BTW Electric
-

Product market performance



Leading in MIG / MAG equipment for robotic welding for 6 consecutive years in China with market share of

30%.



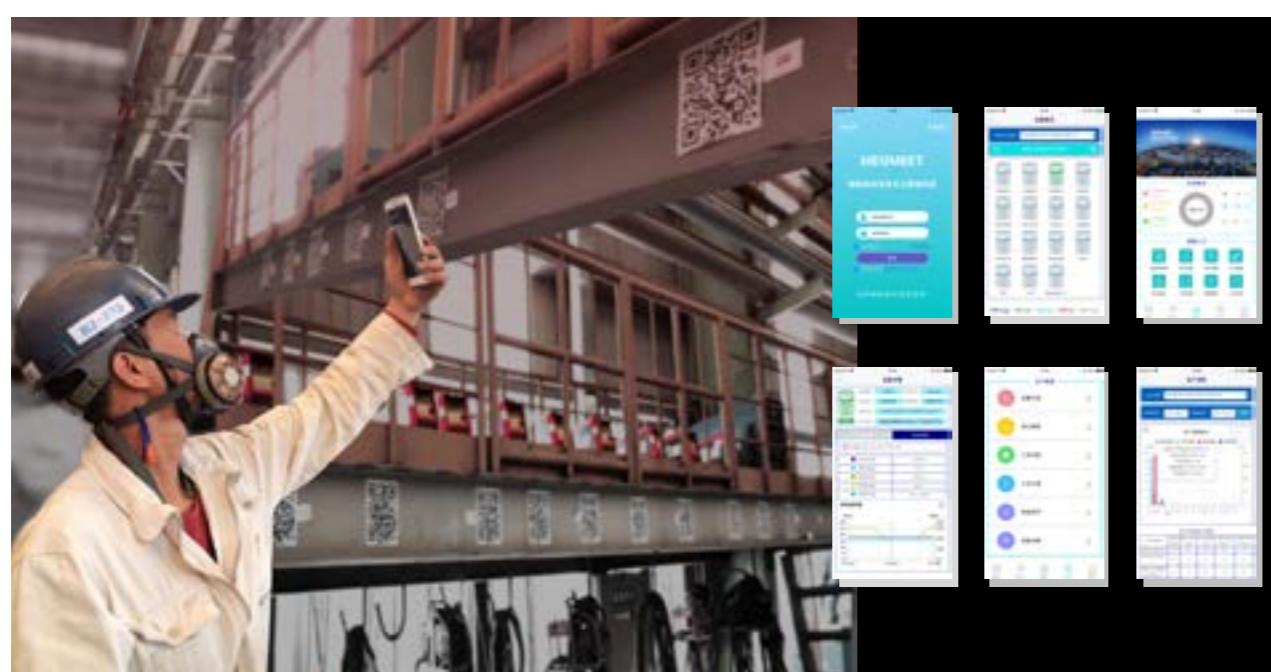
Selection List for MIG/MAG Machines

Product Series	Page No.	Applicable Metal / Consumables					Welding Process				Featured Welding Process						
		Steel / Solid Wire	SUS	Alum-inum Alloy	AlSi CuSi	Metal-cored	MAG / CO ₂	FCAW	Pulse	MMA	AC-MIG	Tranquil Fusion (Low spatter)	Thunder Fusion (short arc pulse)	Leaping Fusion	DP Fusion (Vertical up welding)	LSA (Low Spatter Arc)	QPT (Quick Pulse [2])
Artsen II CM 500 / 400 / 350	23	●						●	●	●							
Artsen II PM 500 / 400 F	23	●			○			●	●	●	●						
Artsen II PM 500 / 400 N	23	●	●		○			●	●	●	●						
Artsen II PM 500 / 400 AS	23	●	●	●	○			●	●	●	●						
Artsen II PM 500 / 400 AD	23	●	●	●	○			●	●	●	●						
Artsen Plus 500 / 400 / 350 D	31	●	●					●	●			●		○	○		
Artsen Plus 500 / 400 / 350 P	31	●	●					●	●	●		●	●	○	○		
Artsen Plus 500 / 400 / 350 Q	31	●	●	●				●	●	●		●	●	○	○		
Artsen Pro 500 / 400 / 350 D	41	●	●					●	●							●	
Artsen Pro 500 / 400 / 350 P	41	●	●					●	●	●			●			●	
Artsen Pro 500 / 400 / 350 Q	41	●	●	●				●	●	●			●			●	
Dex DM 3000 / DM3000 S	47	●	●			○		●									●
Dex PM3000 / PM3000 S	47	●	●	●		○		●		●	●						●
Dex PM3000 Q / PM3000 QS	47	●	●	●		○		●		●	●					●	●
Dex2 500/350MD	53	●	●			○		●	●	●							●
Dex2 500/350MP	53	●	●			○		●	●	●	●					●	●
Dex2 500/350MQ	53	●	●	●		○		●	●	●	●					●	●
Dex2 500/350LD	61	●	●			○		●	●	●							●
Dex2 500/350LP	61	●	●			○		●	●	●	●					●	●
Dex2 500/350LQ	61	●	●	●		○		●	●	●	●					●	●
Dex2 Ultra	61	●	●	●		○		●	●	●	●					●	●
Ehave2 CM630/500/350B	78	●						●	●	●							
Ehave2 CM630/500/350M	78	●	●					●	●	●							
Artsen CM500 C	88	●						●	●	●							

Communication with Robot & Automation						Featured Functions			
EtherNetIP	EtherCAT	ProfiNet	Analog & Automation	DeviceNet	CANOpen	Constant Penetration	Arc Gouging	SMARC IoT	Generator Interface
○	○	○	○	○	○			○	
○	○	○	○	○	○	●		○	
○	○	○	○	○	○	●		○	
○	○	○	○	○	○	●		○	
○	○	○	○	○	○	●		○	
○	○	○	○	○	○			○	○
○	○	○	○	○	○	●		○	○
○	○	○	○	○	○	●		○	○
○	○	○	○	○	○			○	
○	○	○	○	○	○	●		○	
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○	○	○	○	○	○	●		○	
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○	○	○	○	○	○	●		○	
○	○	○	○	○	○	●		○	
○	○	○	○	○	○	●		○	
○	○	○	○	○	○			○	
○	○	○	○	○	○			○	
○	○	○	○	○	○		●	○	○
○	○	○	○	○	○		●	○	○
○	○	○	○	○	○			○	

[1]: Double pulse MIG/MAG for aluminum alloy is not available with Artsen II PM500/400 AS;

[2] : QPT: Quick Pulse Technology. Welding speed of pulse MIG/MAG reaches 2 times of the standard pulse MIG/MAG. It lowers the sensitivity to shield gas for stainless steel welding.



SMARC

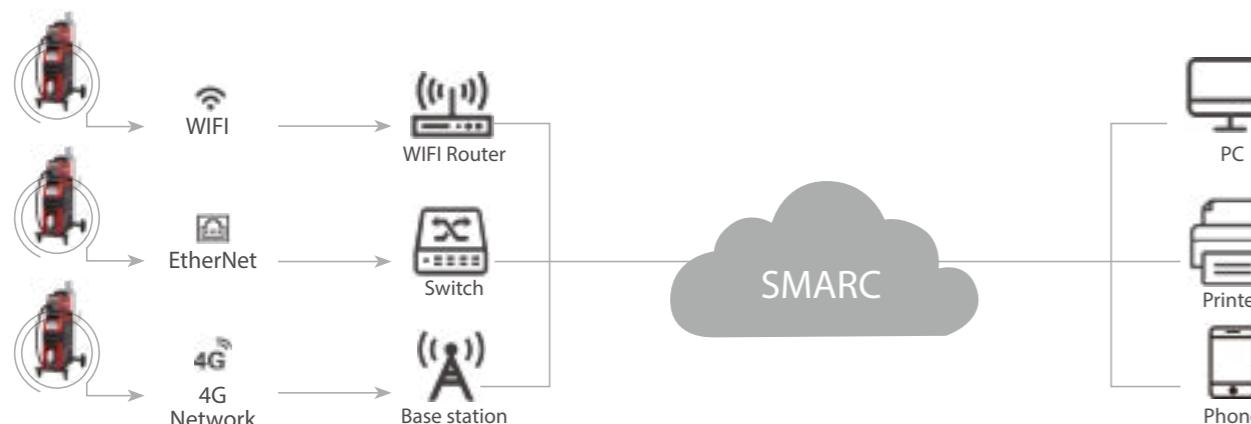
Informatization and IoT Solution for Smart Welding Manufacturing

Supporting Smart Manufacturing for the Industries.

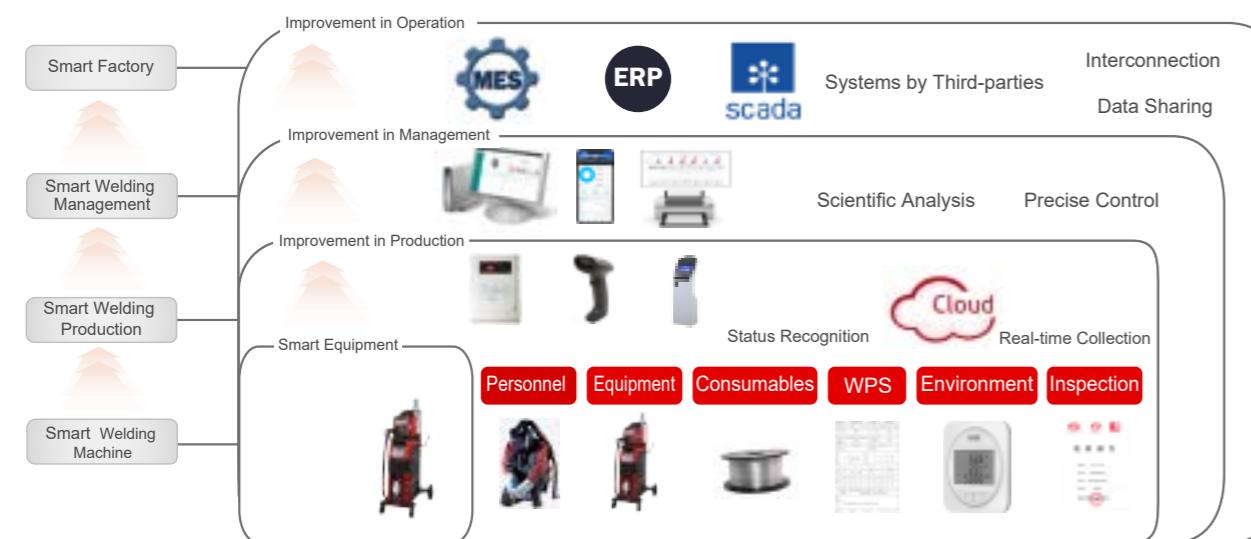




Basic Framework



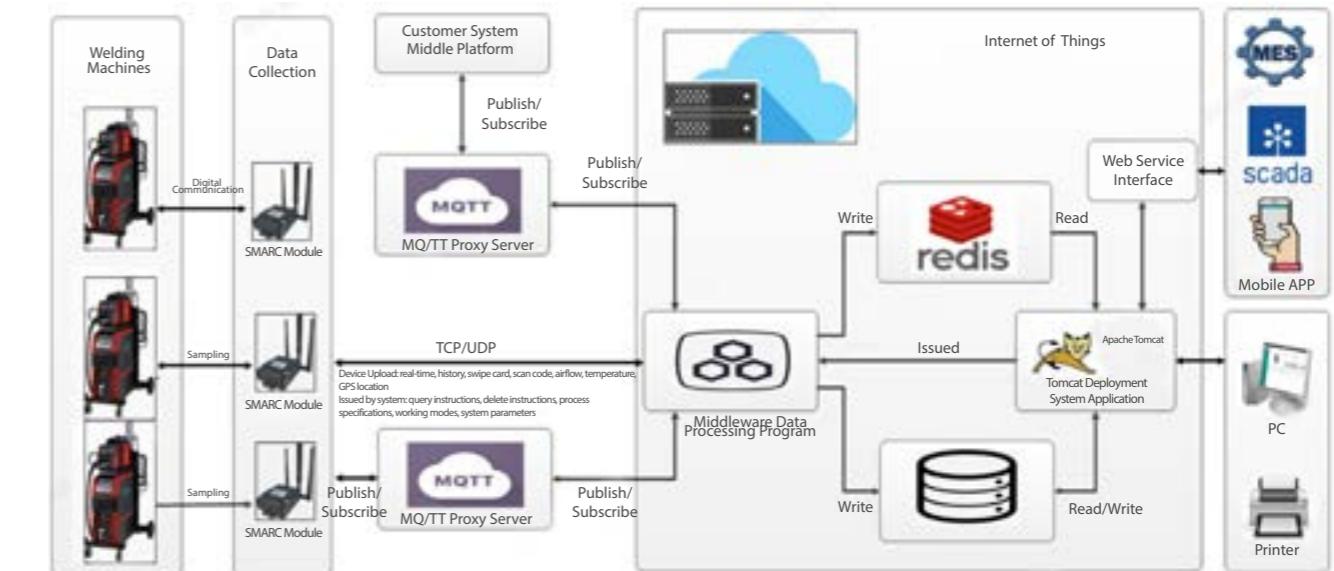
Smart Welding Manufacturing and Solutions



Informatization and IoT Solution for Smart Welding Manufacturing

Friendly Openness

MEGMEET SMARC System has an open data interface, which can be interconnected with MES, ERP and other systems, and supports welding machines of different brands to connect to the system to realize interconnection of all-thing.



Data Security

In the information age, security of customer data has become more and more important. MEGMEET adopts a comprehensive encryption technology on the system side to ensure the security of customer information and MEGMEET can sign confidentiality agreements with customers.





Artsen II CM / PM Series

Artsen II CM/PM Series



Product Features

- Digital Microprocessor Controlled Inverter Technology.
- Synergic control of MIG/MAG/C02 process, Pulse / Double Pulse MIG/MAG.
- Stable welding with stick-out length up to 30mm.
- Standard locking function for both front panel locking & parameters range locking.
- Standard Job saving features (up to 50 Job).
- Supporting SMARC for networking.
- Supporting Up/Down torch.
- Supporting Push-pull torch.
- MIG Brazing function as optional.
- Convenient for building multi-operator system.
- Proven record in heavy industries since 2014.
- High tolerance against input voltage fluctuation (25%+/-).
- Superior reliability with self-protecting design and error code display for easy maintenance.

Excellent Welding Performance

This series of products are equipped with a control process of "special energy controlled short-circuit transition", a droplet transfer control process of "pulse energy adjustment", and a synergic pulse energy control process based on varying wire feeding speeds, being suitable for carbon steel, stainless steel, and aluminum alloys and other high-quality welding, etc.



Standard
 * Optional with extra costs
 Not Applicable

Artsen II PM500 / 400 AD

- Synergic / Pulse / Double Pulse MAG for Carbon Steel and Stainless Steel
- Pulse & Double Pulse MIG for Aluminum and alloy

DC CO₂/MAG Standard Pulse
 Steel Stainless Steel
 Aluminum / Aluminum Alloy
 * Aluminum Bronze * Silicon Bronze
 Push-pull Welding Torch Interface
 Constant Penetration
 Mid-drive Wire Feeding Interface

Artsen II PM500 / 400 N

- Synergic / Pulse / Double Pulse MAG for Carbon Steel and Stainless Steel

DC CO₂/MAG Standard Pulse
 Steel Stainless Steel
 * Aluminum Bronze * Silicon Bronze
 Aluminum / Aluminum Alloy
 Push-pull Welding Torch Interface
 Mid-drive Wire Feeding Interface
 Constant Penetration

Artsen II PM500 / 400 AS

- Synergic / Pulse / Double Pulse MAG for Carbon Steel and Stainless Steel
- Single Pulse MIG for Aluminum and alloy

DC CO₂/MAG Standard Pulse
 Steel Stainless Steel
 Aluminum / Aluminum Alloy
 * Aluminum Bronze * Silicon Bronze
 Push-pull Welding Torch Interface
 Mid-drive Wire Feeding Interface
 Constant Penetration

Artsen II PM500 / 400 F

- Synergic & Pulse MAG for Carbon Steel

DC CO₂/MAG Standard Pulse
 Steel Stainless Steel
 * Aluminum Bronze * Silicon Bronze
 Aluminum / Aluminum Alloy
 Push-pull Welding Torch Interface
 Mid-drive Wire Feeding Interface
 Constant Penetration

Artsen II CM500 / 400 / 350

- Synergic MAG for Carbon Steel

DC CO₂/MAG Standard Pulse
 Steel Stainless Steel
 Aluminum Bronze Silicon Bronze
 Aluminum / Aluminum Alloy
 Push-pull Welding Torch Interface
 Mid-drive Wire Feeding Interface
 Constant Penetration



Specification for Artsen II Series

● Standard ○ Optional

Manual	Artsen II PM500 / 400 AD	Artsen II PM500 / 400 AS
Robotic *	Artsen II PM500 / 400 ADR	Artsen II PM500 / 400 ASR
Process		
Synergic MAG / CO ₂	●	●
Single & Double Pulse MAG for Steel	●	●
Single & Double Pulse MAG for SUS	●	●
Single Pulse MIG for Aluminum	●	●
Double Pulse MIG for Aluminum	●	-
Silicon bronze	○	○
Aluminum bronze	○	○
Constant Penetration	●	●
Functions		
Push-pull Torch	○	○
Middle-drive wire feeding	○	○
Up/Down Torch	○	○
SMARC / IoT	○	○

Manual	Artsen II PM500 AD / AS / N / F	Artsen II CM500
Robotic	Artsen II PM500 AD / AS / N / F R	Artsen II CM500 R
Control Mode		
Fully Digital-control		
Rated Input Voltage	AC 3PH 380V -25% ~ 400V +20% (3PH 285V ~ 3PH 475V)	
Input Frequency	30 ~ 80 Hz	
Rated Input Power	24KVA / 22.3KW	24KVA / 22.3KW
Power Factor	0.93	
Efficiency	87%	
Rated OCV	73.3V	
Max Output Current	500A	
Rated Output Current	39V	
Rated Output Voltage	12 ~ 45V	
Duty Cycle (40°C / 10 min)	500A / 39V 60% @ 40°C 387A / 33.5V 100% @ 40°C	
Wire Diameter	Φ 0.8 / 0.9 / 1.0 / 1.2 / 1.6 mm	
Welding Operation Mode	2T / 4T / Special 4T / Spot Welding / Intermittent Welding	
Electromagnetic Compatibility	EN 60974-10: 2014.	
Protection Against Lightening	Class D (6000V/3000A)	
Insulation Grade	H	
Ingress Protection	IP23 S	
Working Temperature / Humidity	-39°C ~ +40°C	
Dimension (L / W / H)	620*300*480 mm	
Gross Weight	52KG	

Artsen II PM 500 / 400 N	Artsen II PM 500 / 400 F	Artsen II CM500 / 400 / 350
Artsen II PM 500 / 400 NR	Artsen II PM 500 / 400 FR	Artsen II CM 500 / 400 / 350 R
Process		
●	●	●
●	●	-
●	-	-
-	-	-
-	-	-
○	○	-
○	○	-
○	○	-
●	●	-
○	○	○
○	○	○
○	○	○
○	○	○
Functions		
○	○	○
○	○	○
○	○	○
○	○	○
Fully Digital-control		
AC 3PH 380V -25% ~ 400V +20% (3PH 285V ~ 3PH 475V)		
30 ~ 80 Hz		
19.7KVA / 18KW	15 KVA / 12.7KW	15 KVA / 12.7KW
0.94	0.93	0.93
87%	87%	87%
73.3V	73.3V	73.3V
400A	400A	400A
34V	31.5V	31.5V
12 ~ 45V	12 ~ 45V	12 ~ 45V
400A 100% @ 40°C	350A 100% @ 40°C	350A 100% @ 40°C
φ 0.8 / 0.9 / 1.0 / 1.2 / 1.6 mm		
2T / 4T / Special 4T / Spot Welding / Intermittent Welding		
EN 60974-10: 2014.		
Class D (6000V/3000A)		
H		
IP23 S		
-39°C ~ +40°C		
620*300*480 mm		
52KG		



Push-pull Welding Torch

Outstanding Stability with Push-pull Wire-feeding

Product Features:

- Capability to work with push-pull torches by major torch manufacturers with the easy connection and one-button selection in internal menu.
- Welding current (wire-feeding speed) and voltage (arc-length correction) adjustable from push-pull torch body.
- Widely used in welding aluminum for large work pieces.



Intermediate Wire-feeder

Mid-way Reinforcement for Ultra-Long Wire-feeding

Product Features

- Light and small, weighing only 4.3kg; robust and durable with metal structure; streamline design for frequent mobility.
- Digital display for convenient checking and configuration of welding parameters.
- Reaching up to 58 m working scope for solid wires of steel, including 30m by wire-feeder, 25 m by the Intermediate wire-feeder and 3 m by the torch.
- Low cost in welding consumables by allowing working with ordinary welding torch.
- Widely applicable for conditions of long distance and narrow space, such as large tanks, shipbuilding and large steel construction.



Up/Down Torch Control



- Up/Down Control of Current
- Up/Down Control of Voltage

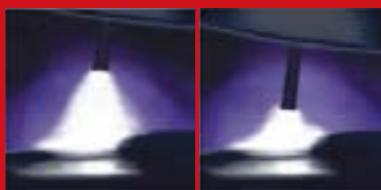
Specification

Specification									
Package List	Power cable set; Control cable set (10 pin); Gas hose, water hose, liner.								
Size of Power Cable	Standard: 50mm; Customized: 70mm;								
Welding Current (50mm Cable)	60%@380A, 100%@300A								
Max Cable Length of Intermediate Wire-feeder	<table> <tr> <td>Solid wire of Carbon Steel</td><td>25m</td></tr> <tr> <td>Solid wire of Stainless Steel</td><td>25m</td></tr> <tr> <td>Flux-cored wire of Carbon Steel</td><td>15m</td></tr> <tr> <td>Aluminum and Alloy</td><td>10m</td></tr> </table>	Solid wire of Carbon Steel	25m	Solid wire of Stainless Steel	25m	Flux-cored wire of Carbon Steel	15m	Aluminum and Alloy	10m
Solid wire of Carbon Steel	25m								
Solid wire of Stainless Steel	25m								
Flux-cored wire of Carbon Steel	15m								
Aluminum and Alloy	10m								
Motor Voltage	DC 24V								
Wire-Feeding Speed	1.5 ~ 24 m/min								
Intermediate-Drive Wire Feeder Weight	4.3 Kg								
A/V Display	Yes								
Configuration Function	Yes								
Locking-up Function	Yes								



Artsen Plus Series

Intelligent Platform of MIG/MAG Welding Process



Artsen Plus Series

Intelligent Platform of MIG/MAG Welding Process

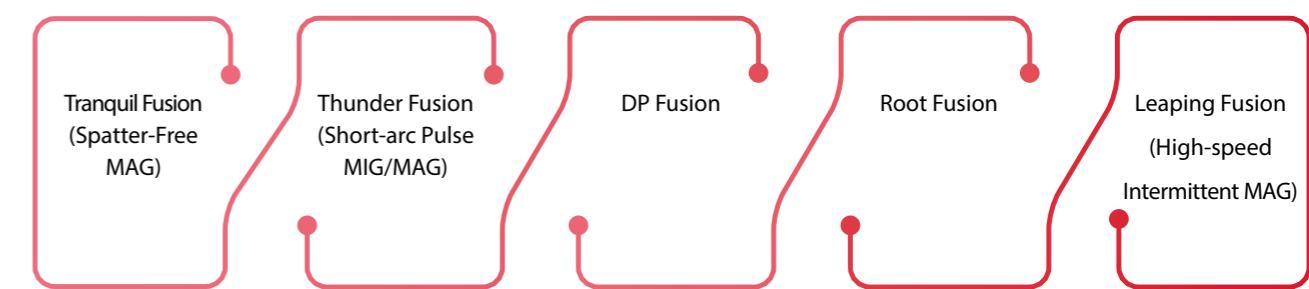


Features

- 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.

Advanced Welding Process 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 plates or more various metal materials.





Artsen Plus 500Q / 400Q / 350Q

- Tranquil Fusion for Carbon Steel and Stainless Steel.
- Thunder Fusion for Aluminum, Carbon Steel and Stainless Steel

- Tranquil Fusion
- Synergic CO₂/MAG
- Thunder Fusion
- Leaping Fusion
- DP Fusion
- Steel
- Stainless Steel
- Aluminum
- Constant Penetration
- USB Port
- Push-pull Torch Connector

Artsen Plus Series

Artsen Plus 500P / 400P / 350P

- Tranquil Fusion for Carbon Steel and Stainless Steel
- Thunder Fusion for Carbon Steel and Stainless Steel

- Tranquil Fusion
- Synergic CO₂/MAG
- Thunder Fusion
- Leaping Fusion
- DP Fusion
- Steel
- Stainless Steel
- Aluminum
- Constant Penetration
- USB Port
- Push-pull Torch Connector

Artsen Plus 500D / 400D / 350D

- Tranquil Fusion for Carbon Steel and Stainless Steel

- Tranquil Fusion
- Synergic CO₂/MAG
- Thunder Fusion
- Leaping Fusion
- DP Fusion
- Steel
- Stainless Steel
- Aluminum
- Constant Penetration
- USB Port
- Push-pull Torch Connector

- Standard
- Optional with extra costs
- Not Applicable



Tranquil Fusion (Low Spatter Welding)

Using the patented monitoring and control technology in droplet formation, with the highly sensitive Tranquil Fusion module and the energy-releasing technology in the power source, MEGMEET achieved precise control of the droplet formation and transfer. At the transfer moment of each droplet, welding current is controlled to be a extremely low level. As a result, the droplet moves into the melton pool peacefully without spatter from explosion. The waveform also lowered the heat-input substantially.



Features in Welding Process:

- Soft welding arc with tranquil welding pool and superbly low spatter.
- The welding energy is subject to adjustment. Heat input can be effectively reduced
- Remarkable welding junction with lowered defects of blowhole and undercut. Suitable for high quality root welding at all wedling positions.
- The welding speed is significantly increased



Automotive parts
Spatter-free and low heat-input



Automotive parts
Stainless steel



Two-wheeler parts
Low heat-input
and strong in gap-filling

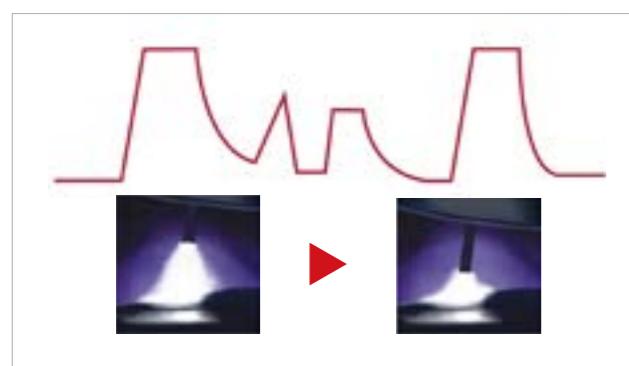


Thunder Fusion (Short Arc Pulse Welding)

Shot-circuit transfer was added into waveform of the standard pulse process. It is a superb combination of synergic and pulse welding process together with their advantages, and achieving better results with short welding arc.

Features in Welding Process:

- Welding with lowered voltage to achieve spatter-free and beautiful results with pulse process
- Short in transfer arc, higher in transfer frequency, stronger in anti-interference capability
- More friendly to robotic welding with high arc stiffness and sharp arc direction
- Heat-input lowered to avoid defects like under-cut
- Deposition rate increased
- Welding spatter is eliminated. Welding process becomes well controlled



Standard Pulse

Thunder Fusion

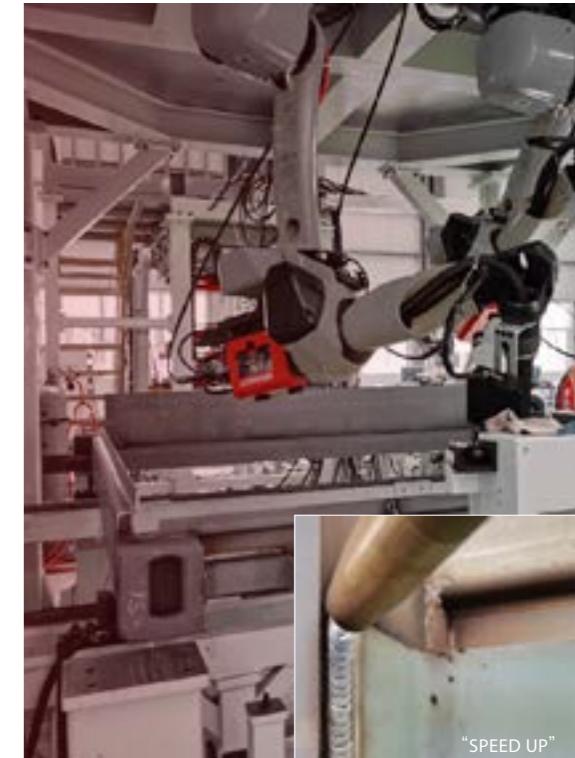
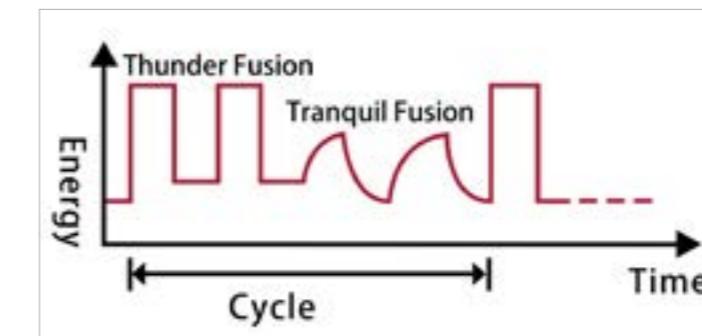


DP Fusion (Vertical Up Welding)

Using short-circuit and pulse welding waveform together but at high-frequency and stable alternate switching. Welding arc periodically heats and cools the base material, and effectively reduces heat-input. It is a welding method that combines short-circuit and pulse transfer, which requires precise control of welding power source and waveform.

Features in Welding Process:

- Highly applicable for vertical-up welding without weaving
- Highly suitable for full-position welding of plates over 2.5 mm, especially with robotics and welding automation
- More precise control of heat-input and welding formation. The internal expert menu is highly open for configuration, and enables precisely control of the parameters such as the alternating frequency, duty cycle, peak value and base value
- Obvious changes in energy. Fast in welding cycle. Achieving clear fish-scale results even in carbon steel and stainless steel



Heavy construction equipment

Spatter-free with Thunder Fusion



Energy

High-speed welding with anti-interference capability

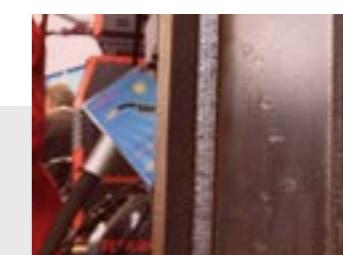


Welding aluminum and alloys

Higher quality in aluminum welding



All-position welding



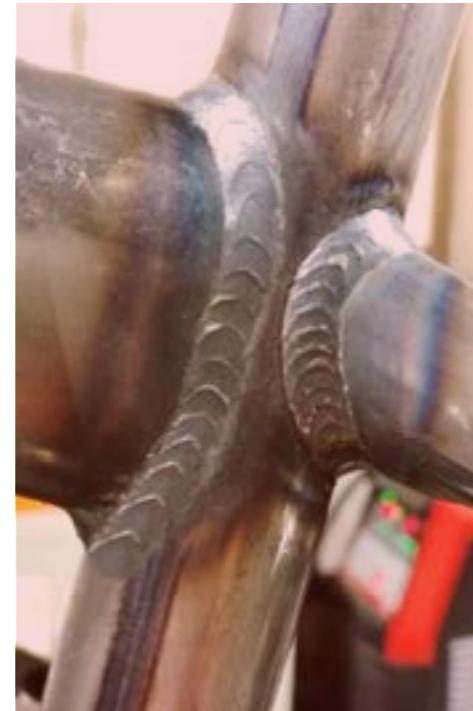
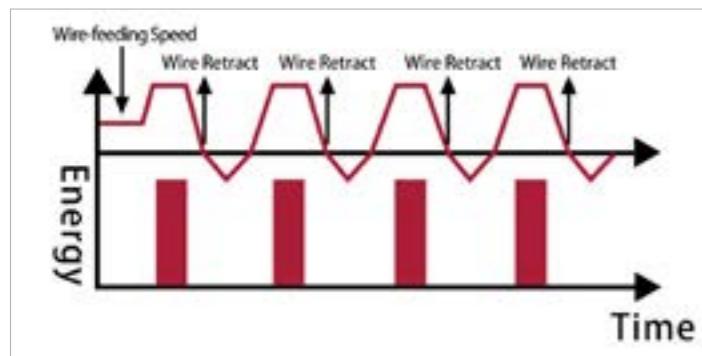
Vertical-up welding without weaving

Leaping Fusion (High-speed Intermittent Welding)

Perfectly integrating the welding process, arc physics, power source technology of high dynamic response and motor control technology. Each time a macroscopic molten pool is formed during the welding process, the welding wire is drawn back at high frequency while the current is sharply reduced to quickly complete a spot welding. The cycle repeats itself, which is more efficient than the traditional spot-welding

Process characteristics:

- The welding arc starts quickly, and ends sharply. The molten-pool can be formed fast, with extremely low heat input and deformation
- 2-3 times faster than traditional spot welding, while achieving clear fish-scale welding appearance
- High tolerance over in-consistent cutting results. Very suitable for welding of gaps and at all-position
- Suitable for the bicycle industry where fish-scale results are requested for carbon steel



USB Port

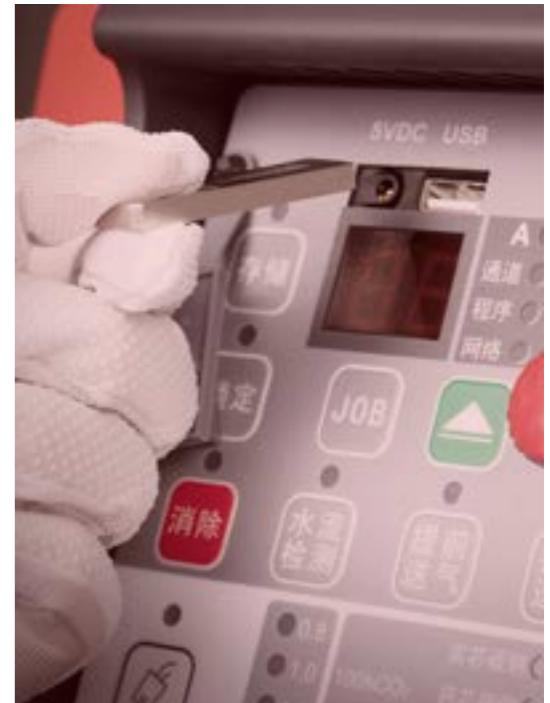
It benefits welders by ensuing fast access to the latest or any tailor-made welding process by MEGMEET. Welding process could be shared and down-loaded from online into a USB, and used thru the port for upgrading

Consistant Fusion

When the base material is uneven and the stick-out length changes, the power-source automatically adjust instantly the wire-feeding speed, and prevent the melting depth from being affected by the changing stick-out length. Welding quality is therefore improved

Process characteristics:

- The welding arc has high dynamic characteristics and stability, stable penetration, and high quality
- Suitable for automated welding by robots and special machines



Artsen Plus Wire-feeders

	Enclosed-type	Light-weight type
Drive control mode	Photoelectric encoder feedback / Counter electromotive force	Counter electromotive force
Rated current	4.5A	4.5A
Rated voltage	24V	24V
Wire-feeding speed	0.8 ~ 24 m / min	0.8 ~ 24 m / min
Wire diameter	0.8 ~ 1.6	0.8 ~ 1.6
Wire-spool	All standard wire reel	All standard wire reel
Drive and roller	4-rollers	4-rollers
Torch connectors	Euro (standard) / Japanese (optional)	Japanese (optional) / Euro
Dimension (L / W / H)	630*250*400	519*200*370
Gross weight	14.5	9.6

Specification

Manual	Artsen Plus 500 / 400 / 350 Q	Artsen Plus 500 / 400 / 350 P	Artsen Plus 500 / 400 / 350 D
Robotics	Artsen Plus 500 / 400 / 350 QR	Artsen Plus 500 / 400 / 350 PR	Artsen Plus 500 / 400 / 350 DR
Welding Process			
Synergic	●	●	●
Tranquil Fusion	●	●	●
Thunder Fusion	●	●	-
Leaping Fusion	●	○	○
DP Fusion	●	○	-
Material			
Steel	●	●	●
Stainless Steel	●	●	●
Aluminum	●	-	-
Featured Function			
USB for Upgrading	●	●	●
Consistent Fusion	●	●	-
Push-pull torch connection	●	●	●
Relay wire-feeder for barrel	○	○	○
SMARC / IoT	○	○	○
A / V display in manual wire-feeder	●	●	●
Manual	Artsen Plus 500 D / P / Q	Artsen Plus 400 D / P / Q	Artsen Plus 350 D / P / Q
Robotics	Artsen Plus 500 D / P / QR	Artsen Plus 400 D / P / QR	Artsen Plus 350 D / P / QR
Control Mode	Fully Digital-Control		
Rated Input Voltage 1	AC 3PH 380V -25% ~ 400V +20% (3PH 285V ~ 3PH 475V)		
Rated Input Voltage 2	-	-	AC 3PH 220V +/-15% (3PH 187V ~ 3PH 254V)
Input Frequency	45 ~ 65Hz		
Rated Input Power	24 KVA	22.3 KVA	16.8 KVA
Power Factor	0.93	0.94	0.94
Efficiency	87%		
Rated OCV	85V		
Max Output Current	500A	400A	350A
Rated Output Current	30 ~ 500 A	30 ~ 400 A	30 ~ 350 A
Rated Output Voltage	12 ~ 45 V (Precision at 0.1V)		
Duty Cycle (40°C / 10 min)	500A / 39V 60% @ 40°C 387A / 33.5V 100% @ 40°C	400A / 34V 100% @ 40°C	350A / 33.5V 60% @ 40°C 270A / 27.5V 100% @ 40°C
Wire Diameter	φ 0.8 / 0.9 / 1.0 / 1.2 / 1.6 mm		
Welding Operation Mode	2T / 4T / Special 4T / Spot Welding / Intermittent Welding		
Electromagnetic Compatibility	EN 60974-10 EMC		
Protection Against Lightening	Class D (6000V/3000A)		
Insulation Grade	H		
Ingress Protection	IP23 S		
Working Temperature / Humidity	-39°C ~ +50°C ; Humidity ≤ 95%;		
Dimension (L / W / H)	620*300*480		
Gross Weight	57.5Kg	57.5Kg	53Kg

*  : Please refer to P56-P64 for Robotic and Automatic Welding.

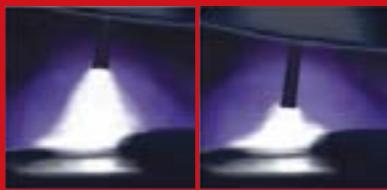
● Standard ○ Optional





Artsen Pro Series

Intelligent Platform of MIG/MAG Welding Process



Artsen Pro Series

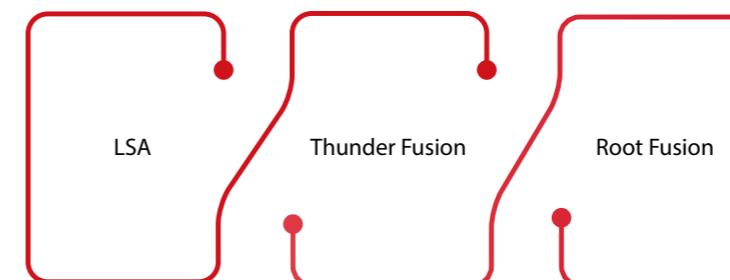
Intelligent Platform of MIG/MAG Welding Process



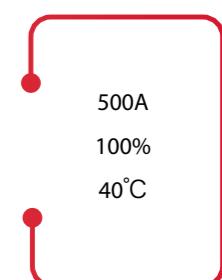
Features

- Artsen Pro series was developed on the basis of the Artsen Plus series. It has meet the demand of high efficiency welding, especially for thick plates.
- Power source of 500A 100% is available for Artsen Pro series.
- With inverter technology of frequency as high as 100K HZ and high-speed sampling, Artsen Pro achieves precise control, and is flexible with various welding characteristics.
- Artsen Pro series brings LSA, a featured low-spatter welding process, as standard. Thunder Fusion is also available with Artsen Pro for the advanced short-arc pulse and double pulse MIG/MAG.
- Artsen Pro series meets high quality welding of carbon steel, stainless steel and aluminum alloys.
- Equipped with Constant Fusion, which allows wire-feeding speed at pulse mode to change automatically according to the stick-out length, and keeps the penetration stabilized.
- Capable to work with multiple industrial robots thru multiple robotic protocols.
- Anti-interference capability, especially convenient for welding automation of multiple torches.
- 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.
- Artsen Pro brings various wire-feeders to meet different welding applications at different markets of different budget levels.

Advanced Welding Process of Artsen Pro Series



Heavy-duty Power Source





Artsen Pro Series

Artsen Pro

500H Q / 500Q / 400Q / 350Q

- LSA for Carbon Steel and Stainless Steel.
- Thunder Fusion for Aluminum, Carbon Steel and Stainless Steel

LSA Synergic CO₂/MAG
 Thunder Fusion

Steel Stainless Steel Aluminum
 Constant Penetration USB Port
 Push-pull Torch Connector

Artsen Pro

500H P / 500P / 400P / 350P

- LSA for Carbon Steel and Stainless Steel
- Thunder Fusion for Carbon Steel and Stainless Steel

LSA Synergic CO₂/MAG
 Thunder Fusion

Steel Stainless Steel Aluminum
 Constant Penetration USB Port
 Push-pull Torch Connector

Artsen Pro

500H D / 500D / 400D / 350D

- LSA for Carbon Steel and Stainless Steel

LSA Synergic CO₂/MAG
 Thunder Fusion

Steel Stainless Steel Aluminum
 Constant Penetration USB Port
 Push-pull Torch Connector

Standard
 Optional with extra costs
 Not Applicable

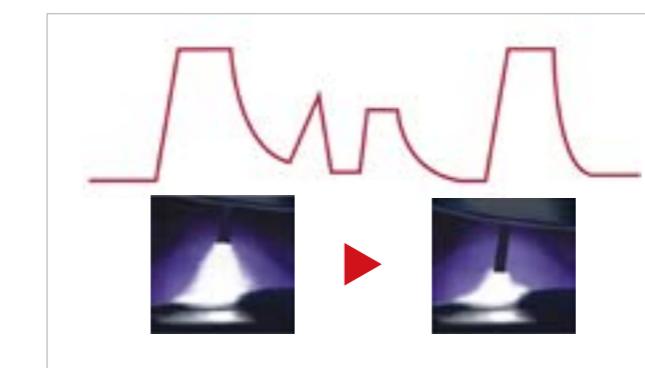


Thunder Fusion (Short Arc Pulse Welding)

Shot-circuit transfer was added into waveform of the standard pulse process. It is a superb combination of synergic and pulse welding process together with their advantages, and achieving better results with short welding arc.

Features in Welding Process:

- Welding with lowered voltage to achieve spatter-free and beautiful results with pulse process
- Short in transfer arc, higher in transfer frequency, stronger in anti-interference capability
- More friendly to robotic welding with high arc stiffness and sharp arc direction
- Heat-input lowered to avoid defects like under-cut
- Deposition rate increased
- Welding spatter is eliminated. Welding process becomes well controlled



Standard Pulse

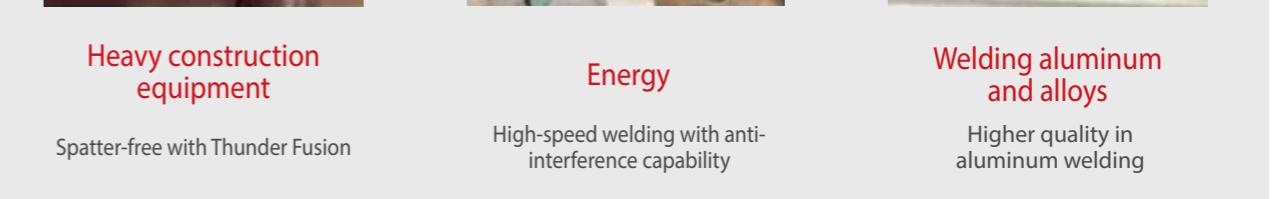
Thunder Fusion



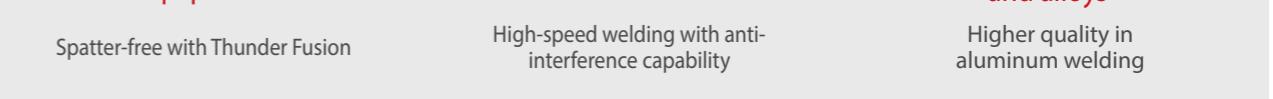
Heavy construction equipment



Energy



Welding aluminum and alloys



Higher quality in aluminum welding

Spatter-free with Thunder Fusion

High-speed welding with anti-interference capability



LSA (Low-spatter Arc for MAG / CO₂)

Optimized and upgraded on the basis of standard synergic MIG/MAG, through software-based precise control, the molten droplet of short-circuit transfer is softly disconnected, so that the spatter caused by the traditional liquid bridge explosion and electromagnetic repulsion is reduced. The molten pool is calmer, and the weld formation is more beautiful.



Process Characteristics:

- Accurate in software control for high-frequency short-circuit transfer. Lower in spatter. Lower in heat input. Highly suitable for sheet metal welding
- Soft in welding arc and fine with spatter particles. Less spatter to remain on the workpiece. Lower with rework like grinding after welding. Higher in total working efficiency
- Higher in welding speed. Better in deformation control. More helpful in welding quality



USB Port

It benefits welders by ensuing fast access to the latest or any tailor-made welding process by MEGMEET. Welding process could be shared and down-loaded from online into a USB, and used thru the port for upgrading



Consistant Fusion

When the base material is uneven and the stick-out length changes, the power-source automatically adjust instantly the wire-feeding speed, and prevent the melting depth from being affected by the changing stick-out length. Welding quality is therefore improved



Process characteristics:

- The welding arc has high dynamic characteristics and stability, stable penetration, and high quality
- Suitable for automated welding by robots and special machines

Specification

Manual	Artsen Pro 500 H / 500 / 400 / 350 Q	Artsen Pro 500 H / 500 / 400 / 350 P	Artsen Pro 500 H / 500 / 400 / 350 D	
Robotics	Artsen Pro 500 H / 500 / 400 / 350 Q R	Artsen Pro 500 H / 500 / 400 / 350 P R	Artsen Pro 500 H / 500 / 400 / 350 D R	
Welding Process				
Synergic	●	●	●	
LSA	●	●	●	
Thunder Fusion	●	●	-	
Leaping Fusion	-	-	-	
DP Fusion	-	-	-	
Material				
Steel	●	●	●	
Stainless Steel	●	●	●	
Aluminum	●	-	-	
Featured Function				
USB for Upgrading	●	●	●	
Consistent Fusion	●	●	-	
Push-pull torch connection	●	●	●	
Relay wire-feeder for barrel	○	○	○	
SMARC / IoT	○	○	○	
A / V display in manual wire-feeder	●	●	●	
Manual	Artsen Pro 500 H D / P / Q	Artsen Pro 500 D / P / Q	Artsen Pro 400 D / P / Q	Artsen Pro 350 D / P / Q
Robotics	Artsen Pro 500 H D / P / Q R	Artsen Pro 500 D / P / Q R	Artsen Pro 400 D / P / Q R	Artsen Pro 350 D / P / Q R
Control Mode				Fully Digital-Control
Rated Input Voltage1				AC 3PH 380V -25% ~ 400V +10% (3PH 285V ~ 3PH 440V)
Rated Input Voltage2				AC 3PH 220V +/-15% (3PH 187V ~ 3PH 254V)
Input Frequency				45 ~ 65Hz
Rated Input Power	24KVA / 22.3KW	24KVA / 22.3KW	16KW / 14KW	15KVA / 12.7KW
Power Factor	0.93	0.94	0.94	0.93
Efficiency	87%			
Rated OCV	85V			
Max Output Current	500A	500A	400A	350A
Rated Output Current	30 ~ 500 A	30 ~ 500 A	30 ~ 400 A	30 ~ 350 A
Rated Output Voltage	12 ~ 45 V (Precision at 0.1V)			
Duty Cycle (40°C / 10 min)	500A / 39V 60% @ 40°C 387A / 33.5V 100% @ 40°C	500A / 39V 60% @ 40°C 387A / 33.5V 100% @ 40°C	400A / 34V 100% @ 40°C	350A / 33.5V 60% @ 40°C 270A / 27.5V 100% @ 40°C
Wire Diameter	Ø 0.8 / 1.0 / 1.2 / 1.6 mm			
Welding Operation Mode	2T / 4T / Special 4T / Spot Welding / Intermittent Welding			
Electromagnetic Compatibility	EN 60974-10 EMC			
Protection Against Lightening	Class D (6000V/3000A)			
Insulation Grade	H			
Ingress Protection	IP23 S			
Working Temperature / Humidity	-39°C ~ +50°C ; Humidity ≤ 95%;			
Dimension (L / W / H)	620mm*300mm*480mm			
Gross Weight	57.5Kg			

* : Please refer to P56-P64 for Robotic and Automatic Welding.

● Standard ○ Optional



Dex Series
(Compact)

Dex Series
(Decompat)

Compact but
Powerful and
Professional.

Dex Series

Born for sheet metal

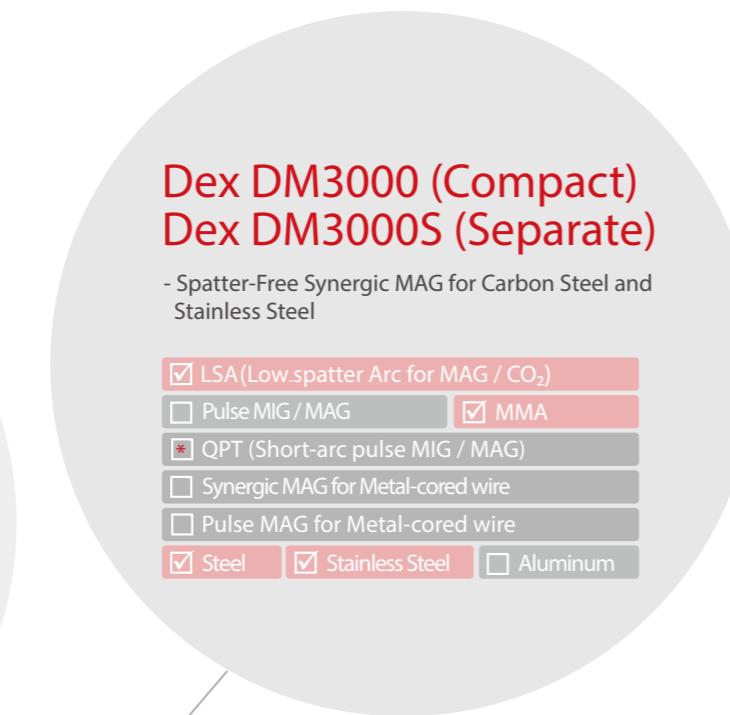
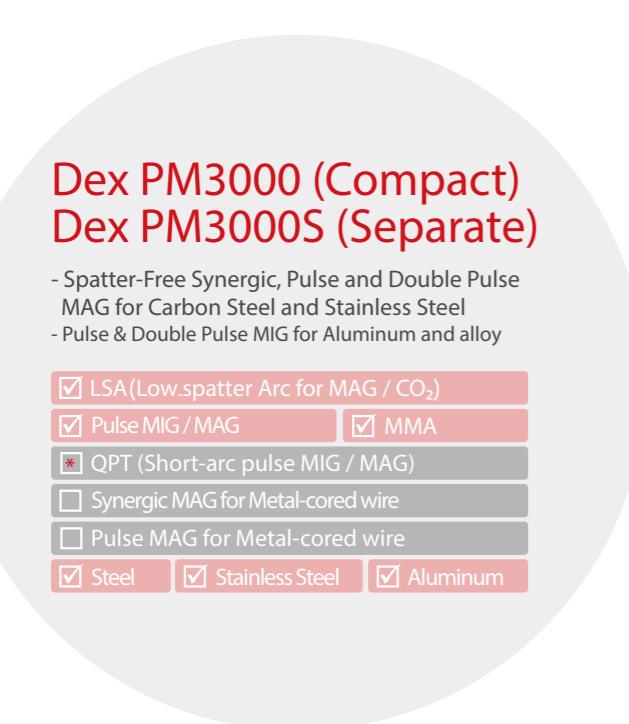


Features

- Low spatter arc for carbon steel at synergic MAG mode
- Better performance for SUS at synergic mode
- Short-arc pulse MIG/MAG (QPT) with superb performance for SUS
- Highly easy to use with wide expert database and synergic control
- Power-saving with up to 90% efficiency
- Waveform control at a new level with 180K HZ output frequency
- Better tolerance for minor changes of welding voltage
- Standard Job saving features (up to 50 Job)
- Up to 15m inter-connection cable for more flexibility
- Highly adaptive for automation with precise control of wire-feeding
- Longer service life and lower defective rate thanks to better mechanical design



<input checked="" type="checkbox"/> Standard
<input checked="" type="checkbox"/> Optional with extra costs
<input type="checkbox"/> Not Applicable

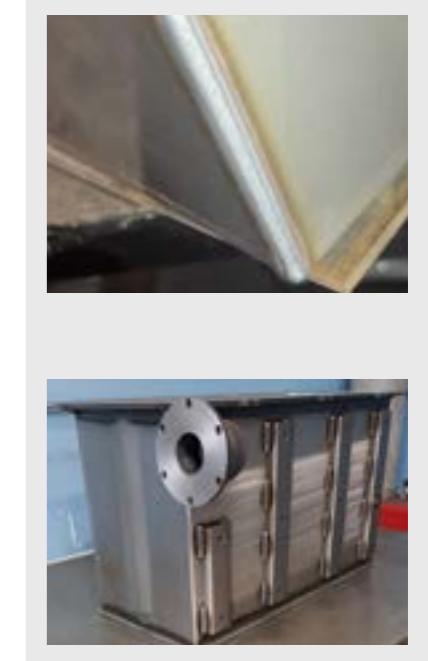


Dex Series



LSA (Low-spatter Arc for MAG / CO₂)

Optimized and upgraded on the basis of standard synergic MIG/MAG, through software-based precise control, the molten droplet of short-circuit transfer is softly disconnected, so that the spatter caused by the traditional liquid bridge explosion and electromagnetic repulsion is reduced. The molten pool is calmer, and the weld formation is more beautiful.



Process Characteristics:

- Accurate in software control for high-frequency short-circuit transfer. Lower in spatter. Lower in heat input. Highly suitable for sheet metal welding
- Soft in welding arc and fine with spatter particles. Less spatter to remain on the workpiece. Lower with rework like grinding after welding. Higher in total working efficiency
- Higher in welding speed. Better in deformation control. More helpful in welding quality

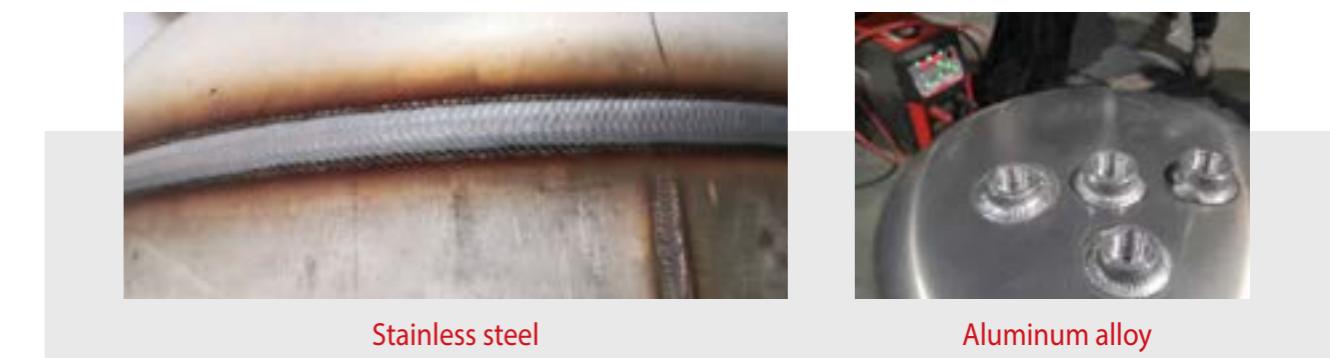


QPT (Short-arc pulse)

The industry-leading 180 K HZ inverter frequency brings advantages of high-speed sampling and control. Dex can find critical control and balance between short-circuit and spray transfer, and achieve higher transfer speed.

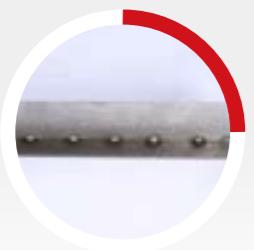
Process Characteristics:

- Low spatter, low heat-input, suitable for high speed sheet metal welding
- 50%~100% faster than standard pulse MIG/MAG process
- Less sensitive to shield gas composition. Capable of welding SUS solid wire with mixed gas of 80% argon / 20% CO₂





Multiple welding processes



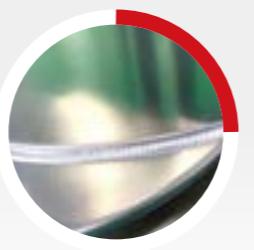
High-speed spot welding

Higher arc-striking success rate. Easier to control. Completing a round and full-sized welding spot in 0.3 seconds.



Stainless steel

Special control program for stainless steel welding. Reduce the sensitivity to pulses welding arc. No complicated parameter matching is required. Applicable with multiple types of shield gas to weld SUS only by adjusting the welding voltage.



Aluminum alloy

Various expert and special programs for aluminum welding. Brand new pulse welding control scheme. The contrast of peak and base current can reach 90%, and therefore enables welders to achieve clear fish-scale welding of aluminum.

Specification

	Standard	Optional
Manual - Compact	Dex DM3000	Dex PM3000
Manual - Decompact	-	-
Robotic	-	-
Process		
Synergic MAG / CO ₂	●	●
LSA	●	●
Pulse MIG / MAG	-	●
QPT	-	○
MMA	●	●
Material		
Steel	●	●
Stainless Steel	●	●
Aluminum & Alloy	-	●
Metal-cored Wire	-	●
Specification		
Control mode	Fully Digital-control	
Rated Input Voltage	AC 3PH 380V -15% ~ 400V +15% (3PH 323V ~ 3PH 460V)	
Input Frequency	45 ~ 65Hz	
Rated Input Power	9.2KVA / 8.7KW	
Power Factor	0.94	
Efficiency	91%	
Rated OCV	54.2V	
Rated Output Current	30A~300A	
Rated Output Voltage	12V~30V	
Parameter channel	50	
Duty Cycle (40°C / 10 min)	100%@207A / 24.9V 60%@250A / 28V	100%@217A / 24.9V 60%280A / 28V
Wire feeding speed	1.4 ~ 28m/min	
Insulation Grade	H	
Ingress Protection	IP23 S	
Protection Against Lightening	Class D (6000V/3000A)	
Certification	EN60974-10:2014 EN60974-1:2012 GB/T15579.1-2013	GB/T15579.1-2013
Working Temperature	-10°C ~ +40°C	
Dimension (L / W / H)	610mm × 260mm × 398mm	
Gross Weight	25.4kg	23.7kg
Manual wire-feeder	Built-in wire-feeder	Light-weight wire-feeder
		Enclosed-type wire-feeder





Dex2 M Series

Full Digital IGBT Inverter
Multi-functional MIG Welding Machine

Dex2 M Series

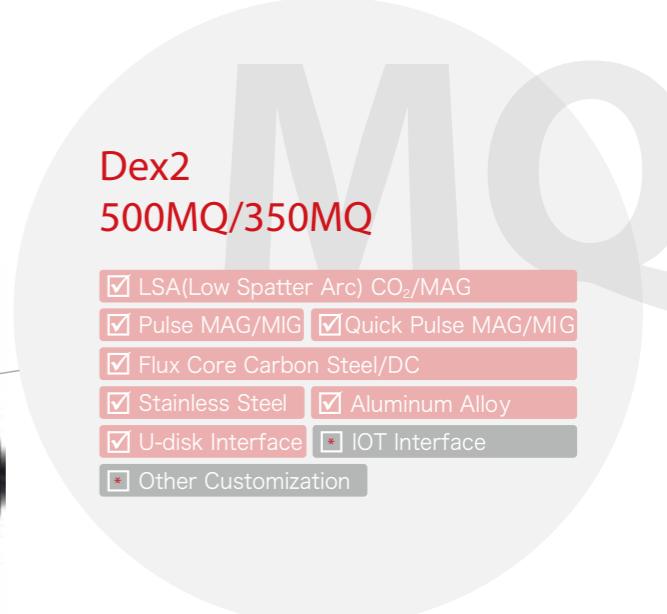
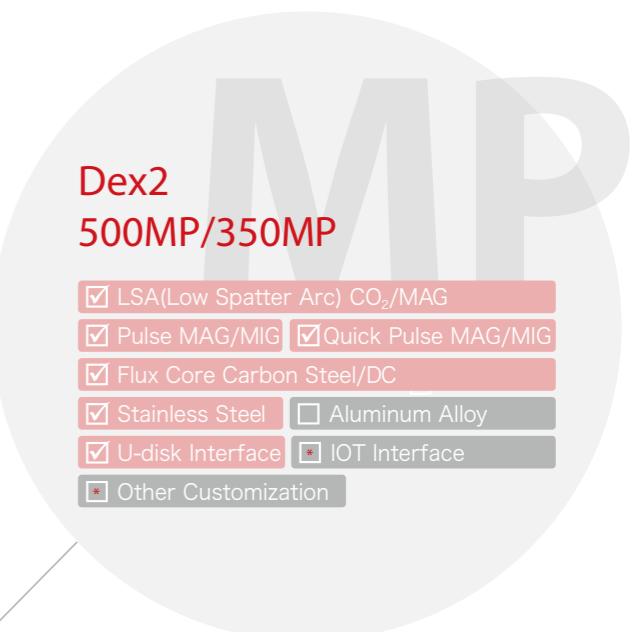
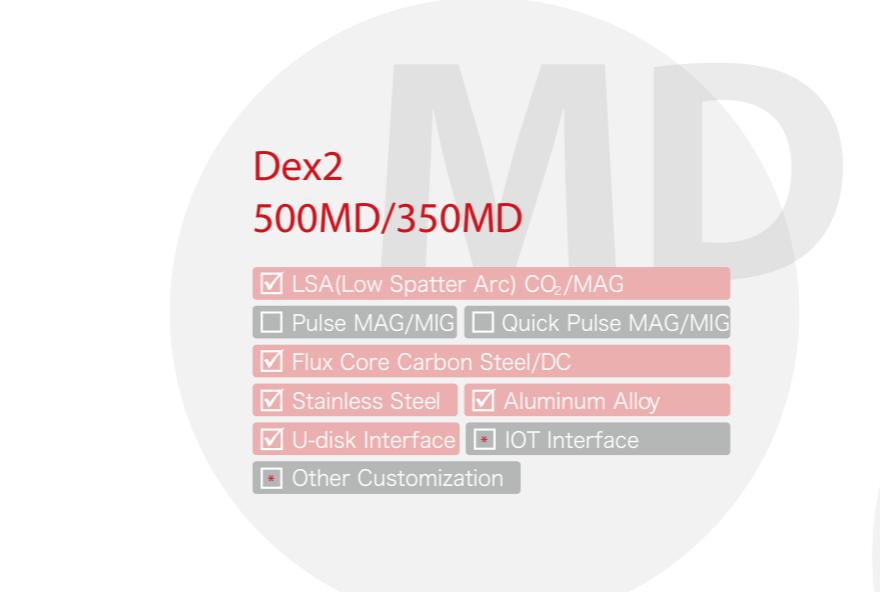
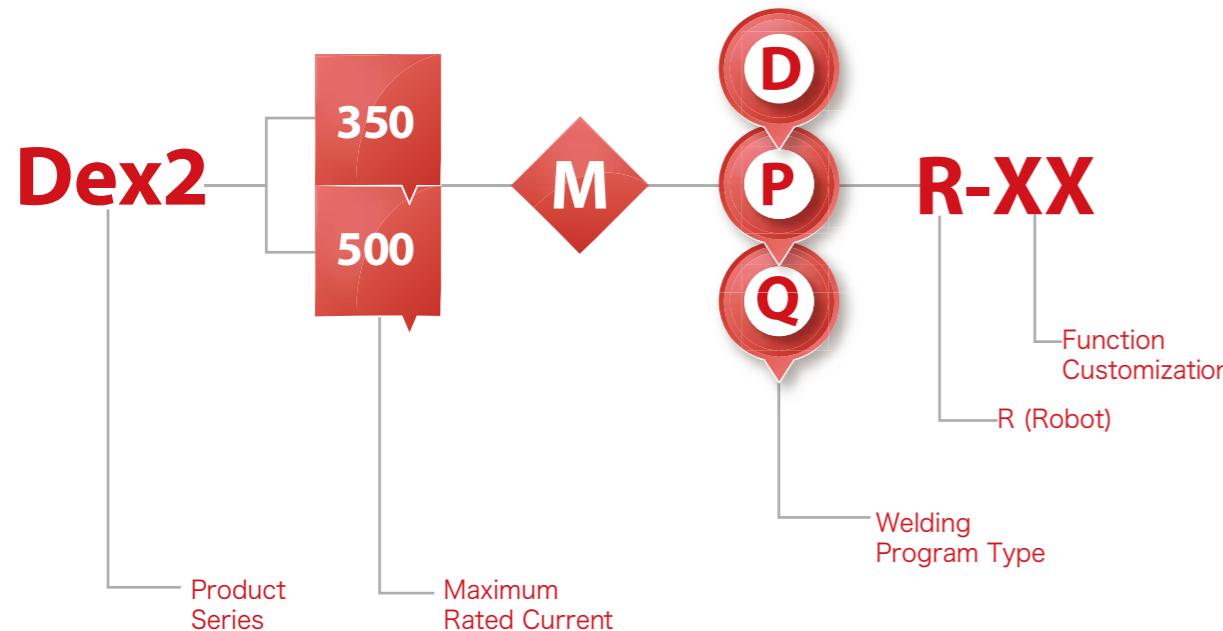
Full Digital IGBT Inverter Multi-functional
MIG Welding Machine

DC 380 3PH 40~70 Hz CV 110 kHz

Features

- Optimal welding programs in LSA (low-spatter-arc welding realized by software algorithm), quick pulse, high-speed weld and others. Be weldable in multiple materials: carbon steel, stainless steel, aluminum alloy and others;
- "Chopper" control technology is applied in software to precisely control droplet, and reduce spatter by more than 50%;
- Unique quick pulse process integrates advantages of pulse and DC short circuit, and welding speed is increased by more than 20% compared with conventional pulse welding;
- Wider voltage range, high current and low voltage, lower heat input, higher fusion efficiency, thin plate welding is comparable to TAP-TYPE machine;
- Adaptive arc-start retraction technology increases arc start success rate to almost 100%;
- Inverter frequency up to 110KHz enables higher control precision and more stable arc;
- Comprehensive communication interfaces are able to communicate with different brands of robots;
- Built-in touch sensing function with 80-400 voltage is easier to break down the rust on the surface of workpiece;
- Acting national standard of first-level energy efficiency;
- IOT interface is reserved to connect with Megmeet SMARC cloud system;
- U-disk upgrade function ensures customers to easily obtain Megmeet's most cutting-edge welding technology;
- Application industries: engineering machinery, steel structures, special vehicles, auto parts, two/tricycles, containers, petroleum and petrochemical industries, etc.





Standard N/A Customization

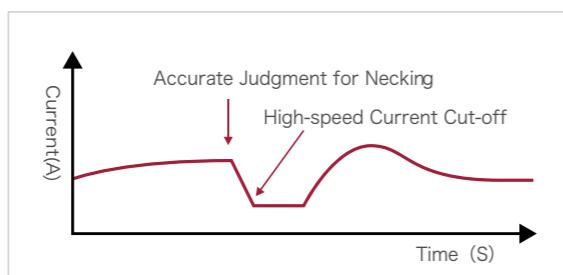
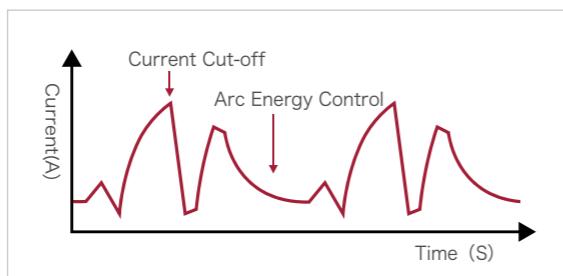


LSA (Low Spatter Arc by Software Algorithm)

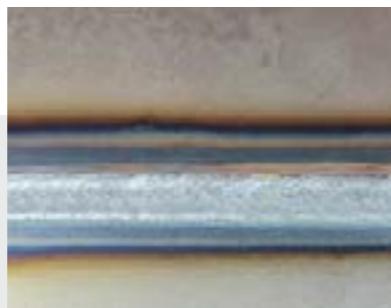
Fine management in droplet transfer through software algorithm so that short-circuit transfer of droplet is softly cut off, which greatly reduces spatter caused by liquid-bridge bursting and electromagnetic repulsion, and helps fusion pool more stable and weld shape more beautiful.

Welding Features:

- Compared with conventional DC welding, spatter quantity is cut down by 50%, which reduces cleaning and grinding time and improves production efficiency;
- Fluctuation of fusion pool is small, weld surface is more delicate, and weld shape is more beautiful;
- Lower heat input and less deformation;
- Stronger gap adaptability.



Normal DC (many spatters)



LSA (low spatter and low heat input)



Quick Pulse Technology(QPT)

Unique quick pulse welding technology adopts three-level main power topology. High-speed sampling and control advantages, brought by the inverter frequency up to 110kHz, can reach critical state between short circuit and pulse spray transition.

With shorter droplet transition distance, lower arc and faster welding speed, pulse speed is increased by more than 20%. Service life of wearing parts is lengthened and weld shape is better, meeting actual needs of manual welding.

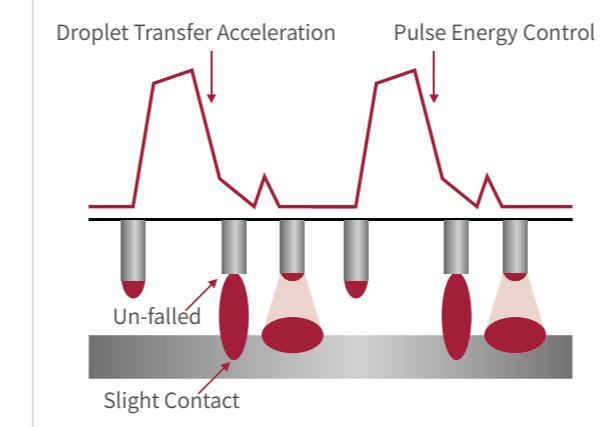
VS

Pain Points in Conventional Pulse Welding

- Speed is slow: 30% slower than DC welding
- Weld formation is difficult to control: high heat input, long arc and many undercuts
- High Requirements in Mixed Gas: high requirement in the 80/20 gas ratio and resulted higher cost
- Accessories Loss: high voltage and high pulse peak value bring serious heating to torch, and high cost of accessories and shorter service life.

Megmeet Quick Pulse Technology(QPT)

- Welding speed is faster and welding speed is increased by 20%, compared with conventional pulse;
- Short arc length, good stiffness, strong anti-interference ability, more suitable for high-speed welding of medium and thick plates, supporting concentrated arc energy and better penetration;
- Low arc heat input increases service life of accessories;
- Wide voltage range, strong welding adaptability, simpler operation, more popular by welders.



Construction Machinery



Boiler Membrane Wall

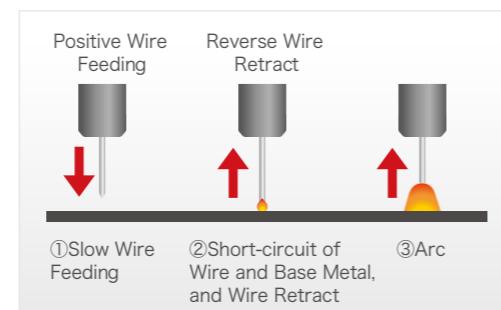
High Speed DC Welding

- With wider adaptive range of voltage, the same current is able to match lower voltage (10% lower than other welding machines);
- Lower heat input, higher deposition efficiency, thin-plate welding performance be comparable with tap-type machine.



Wire Retraction Function in Arc Starting

- When welding machine detects arc starting signal, wire will retract in high speed, which greatly improves the quality and success rate of arc starting, and greatly reduces various arc starting issues.



Up-down Torch (optional)

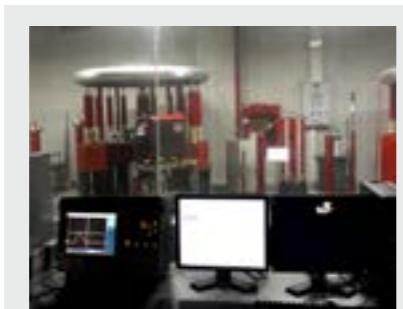
- Up-down torch is optional to conveniently adjust welding parameters on the torch(current, voltage, etc).



High Reliability



Strong environmental adaptability, suitable for working under tough environment;



Stable and reliable: stability is the base of intelligent welding machines!



Consistency: consistent performance by any machine, anytime and anywhere!

Product Specification

	Standard	Optional	Standard	Optional	Standard	Optional	Standard	Optional	Standard	Optional						
Manual type	Dex2 500MD		Dex2 350MD		Dex2 500MP		Dex2 350MP		Dex2 500MQ							
Robotic type*	Dex2 500MDR		Dex2 350MDR		Dex2 500MPR		Dex2 350MPR		Dex2 500MQR							
Welding Programs																
LSA (Low Spatter Arc by Software)	●		●		●		●		●							
DC	●		●		●		●		●							
Standard pulse	-		-		●		●		●							
Quick pulse	-		-		●		●		●							
Flux Core Carbon Steel/DC	●		●		●		●		●							
Carbon steel	●		●		●		●		●							
Stainless steel	●		●		●		●		●							
Aluminum alloy	-		-		-		-		●							
Function																
U-disk interface	●		●		●		●		●							
SMARC interface	○		○		○		○		○							
Push-pull welding torch interface	○		○		○		○		○							
Wire feeder AV LED display (manual type)	○		○		○		○		○							
Technical Parameters																
Control Method	Digital IGBT Control			Digital IGBT Control			Digital IGBT Control									
Input voltage	3-phase AC 380 V (±25%)			3-phase AC 380 V (±25%)			3-phase AC 380 V (±25%)									
Input frequency	40~70Hz		40~70Hz		40~70Hz		40~70Hz		0~70Hz	40~70Hz						
Inverter switching frequency	110kHz		110kHz		110kHz		110kHz		110kHz	110kHz						
Rated input capacity	23.3KVA/21.4KW		13.4KVA/12.3KW		23.3KVA/21.4KW		13.4KVA/12.3KW		23.3KVA/21.4KW	13.4KVA/12.3KW						
No-load voltage	77V		77V		77V		77V		77V	77V						
Rated output current	500A		350A		500A		350A		500A	350A						
Rated output voltage	39V		31.5V		39V		31.5V		39V	31.5V						
Duty cycle	100%@500A		100%@350A		100%@500A		100%@350A		100%@500A	100%@350A						
Power factor	0.92		0.92		0.92		0.92		0.92	0.92						
Efficiency	91%@500A		89%@350A		91%@500A		89%@350A		91%@500A	89%@350A						
Output characteristics	CV		CV		CV		CV		CV	CV						
Wire feeding speed	0.5~28m/min		0.5~28m/min		0.5~28m/min		0.5~28m/min		0.5~28m/min	0.5~28m/min						
Parameter JOB	50		50		50		50		50	50						
Operating temperature	-10°C~40°C (welding power source can be started at -39°C)															
Dimension	L*W*H (mm) 647*291*572															
Weight	37KG		37KG		37KG		37KG		37KG	37KG						
Enclosure rating	IP23 S		IP23 S		IP23 S		IP23 S		IP23 S	IP23 S						
Insulation class	H		H		H		H		H	H						
Cooling method	Forced air		Forced air		Forced air		Forced air		Forced air	Forced air						



Dex2 L Series

Full Digital IGBT Inverter Multi-functional
Super-low Spatter MIG Welding Machine

Dex2 L Series

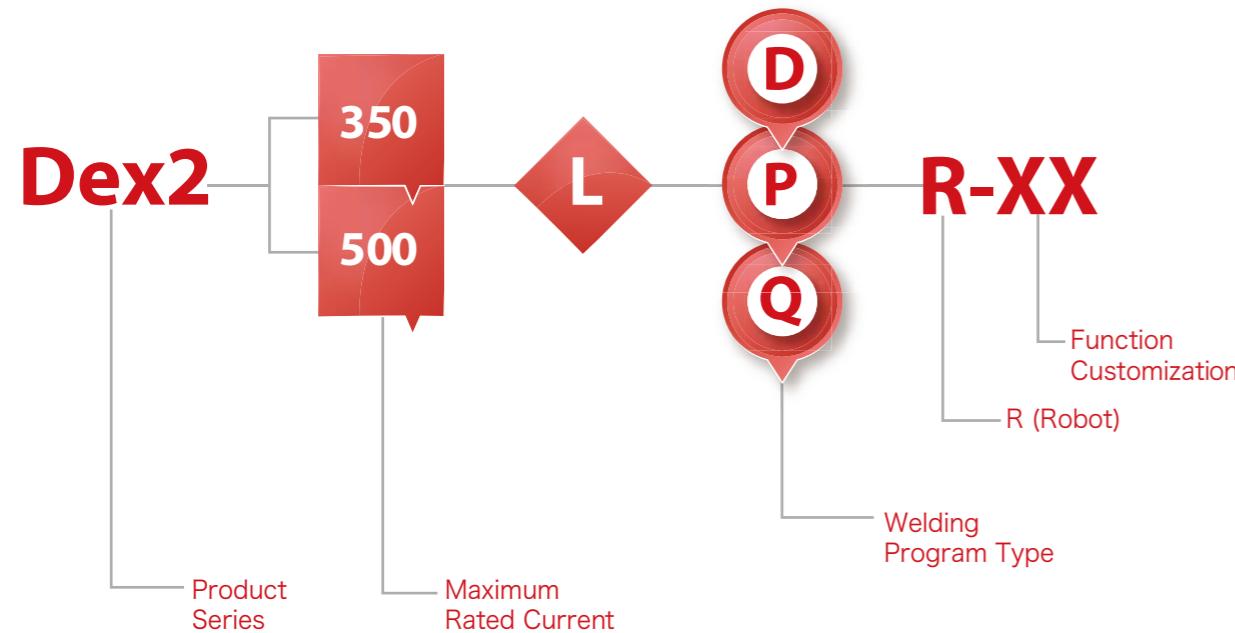
Full Digital IGBT Inverter Multi-functional
Super-low Spatter MIG Welding Machine

DC 380 3PH 40~70 Hz CV 110 kHz

Features

- Optimal welding programs in super-low spatter DC, quick pulse, high-speed weld and others. Be weldable in multiple materials: carbon steel, stainless steel, aluminum alloy and others;
- "Chopper" control technology in the combination of hardware & software to precisely control droplet, realize DC super-low spatter performance, and reduce spatter by more than 90%;
- Unique quick pulse process integrates advantages of pulse and DC short circuit, and welding speed is increased by more than 20% compared with conventional pulse welding;
- Wider voltage range, high current and low voltage, lower heat input, higher fusion efficiency, thin plate welding is comparable to TAP-TYPE machine;
- Adaptive arc-start retraction technology increases arc start success rate to almost 100%;
- Three-level main power topology structure and inverter frequency up to 110kHz enable higher control precision and more stable arc;
- Comprehensive communication interfaces are able to communicate with different brands of robots;
- Touch sensing function with 80-400 voltage is easier to break down the rust on the surface of workpiece;
- IOT interface is reserved to connect with Megmeet SMARC cloud system;
- U-disk upgrade function ensures customers to easily obtain Megmeet's most cutting-edge welding technology;
- Application industries: engineering machinery, steel structures, special vehicles, auto parts, two/tricycles, containers, petroleum and petrochemical industries, etc.





Dex2 500LP/350LP

- Super-low Spatter CO₂/MAG
- Pulse MIG/MAG
- Quick Pulse MIG/MAG
- Carbon Steel
- Stainless Steel
- Aluminum Alloy
- U-disk Interface
- IOT Interface
- Other Customization

Dex2 500LQ/350LQ

- Super-low Spatter CO₂/MAG
- Pulse MIG/MAG
- Quick Pulse MIG/MAG
- Carbon Steel
- Stainless Steel
- Aluminum Alloy
- U-disk Interface
- IOT Interface
- Other Customization



Dex2 500LD/350LD

- Super-low Spatter CO₂/MAG
- Pulse MIG/MAG
- Quick Pulse MIG/MAG
- Carbon Steel
- Stainless Steel
- Aluminum Alloy
- U-disk Interface
- IOT Interface
- Other Customization

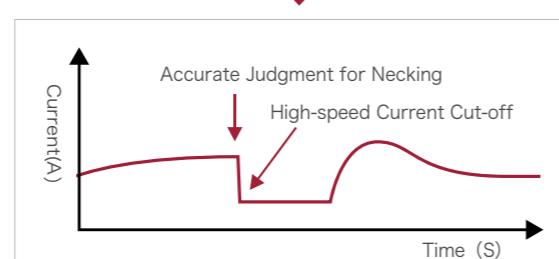
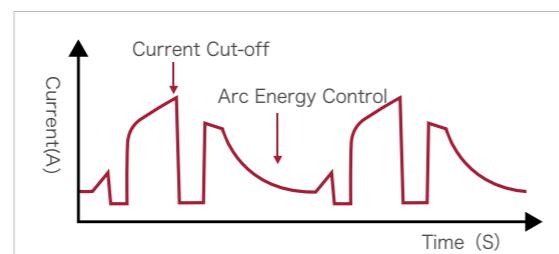
Super-low Spatter Technology

110kHz high-frequency hardware system combined with patented algorithm can realize precise "chopper" control, which greatly reduces spatter caused by liquid-bridge bursting and electromagnetic repulsion, and helps fusion pool more stable and weld shape more beautiful.



Welding Features:

- Soft arc, low and small spatter, 90% less spatter than conventional DC welding machine. Grinding work is reduced to improve production efficiency;
- Lower heat input, suitable for thin plate welding;
- Smooth droplet transfer, calm fusion pool, low heat input, strong ability in bridge-welding, be adaptive in large-gap welding;
- Wider range in low spatter welding: thin-plate carbon steel, \$1.2mm wire. Low spatter current range can reach 210A, 20% higher than other similar welding machines.



Automotive Parts (low spatter and low heat-input)

Quick Pulse Technology(QPT)

Unique quick pulse welding technology adopts three-level main power topology. High-speed sampling and control advantages, brought by the inverter frequency up to 110kHz, can reach critical state between short circuit and pulse spray transition.

With shorter droplet transition distance, lower arc and faster welding speed, pulse speed is increased by more than 20%. Service life of wearing parts is lengthened and weld shape is better, meeting actual needs of manual welding.

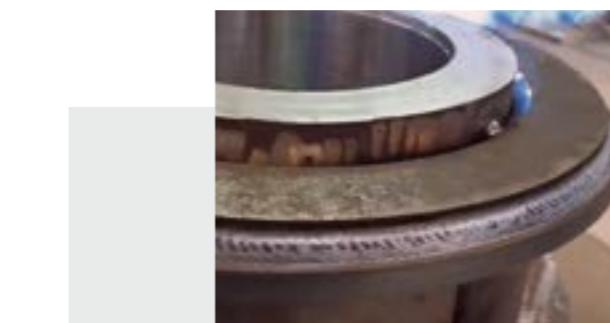
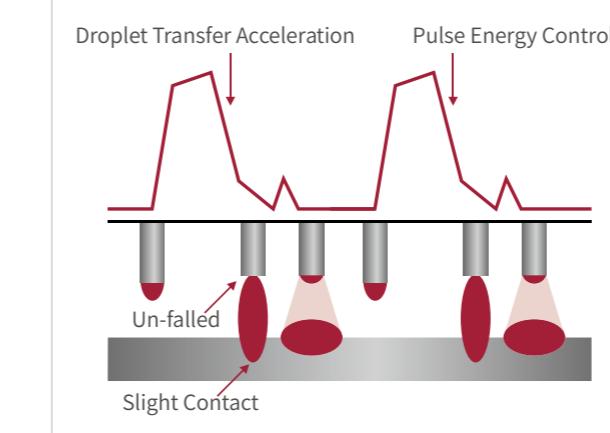
Pain Points in Conventional Pulse Welding

- Speed is slow: 30% slower than DC welding
- Weld formation is difficult to control: high heat input, long arc and many undercuts
- High Requirements in Mixed Gas: high requirement in the 80/20 gas ratio and resulted higher cost
- Accessories Loss: high voltage and high pulse peak value bring serious heating to torch, and high cost of accessories and shorter service life.

VS

Megmeet Quick Pulse Technology(QPT)

- Welding speed is faster and welding speed is increased by 20%, compared with conventional pulse;
- Short arc length, good stiffness, strong anti-interference ability, more suitable for high-speed welding of medium and thick plates, supporting concentrated arc energy and better penetration;
- Low arc heat input increases service life of accessories;
- Wide voltage range, strong welding adaptability, simpler operation, more popular by welders.



Construction Machinery



Boiler Membrane Wall

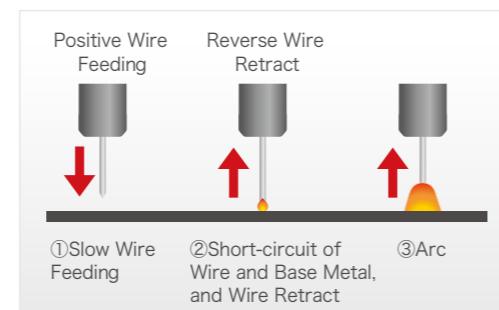
✓ High Speed DC Welding

- With wider adaptive range of voltage, the same current is able to match lower voltage (10% lower than other welding machines);
- Lower heat input, higher deposition efficiency, thin-plate welding performance be comparable with tap-type machine.



✓ Wire Retraction Function in Arc Starting

- When welding machine detects arc starting signal, wire will retract in high speed, which greatly improves the quality and success rate of arc starting, and greatly reduces various arc starting issues.



✓ Up-down Torch (optional)

- Up-down torch is optional to conveniently adjust welding parameters on the torch(current, voltage, etc).



✓ High Reliability



Strong environmental adaptability, suitable for working under tough environment;



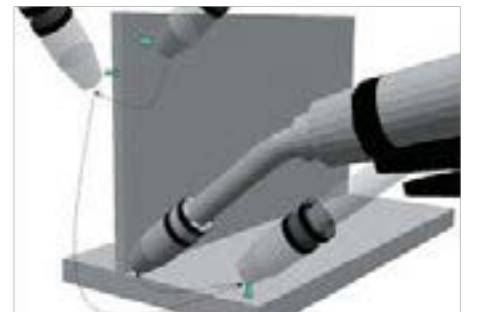
Stable and reliable: stability is the base of intelligent welding machines!



Consistency: consistent performance by any machine, anytime and anywhere!

✓ 400V High-voltage Touch Sensing Function

- Built-in high-voltage touch sensing function with adjustable range 80~400V, no need to separately buy high-voltage touch sense device;
- High reliability and effective penetration of oil stains, rust, water stains, etc., fast touch-sense with high precision, and strong adaptability to robots;
- Current-limiting design ensures welding within safe current range, effectively protecting the safety of welders and welding machines;



✓ U-disk Interface

- To ensure customers conveniently obtaining Megmeet's foremost welding programs and function customization;
- New software can be programmed into welding machines through U disk.

✓ Intelligent Upgrade

- With additional robotic accessories package, manual-type welding power source can be expanded to robotic welding power source to help users save money.



Water Cooler (Optional)

Circulating Water Cooler AnyCool-66

Water cooler power supply	Powered by welding machine
Rated power	370W
Rated voltage	380V AC
Cooling water capacity	6.8L
Cooling water flow	3.5L/min
Cooling water maximum lift	20m
Flow alarm	✓



Product Specification

	● Standard ○ Optional					
Manual type	Dex2 500LD	Dex2 350LD	Dex2 500LP	Dex2 350LP	Dex2 500LQ	Dex2 350LQ
Robotic type*	Dex2 500LDR	Dex2 350LDR	Dex2 500LPR	Dex2 350LPR	Dex2 500LQR	Dex2 350LQR
Welding Programs						
Super-low Spatter by Hardware	●	●	●	●	●	●
Low Spatter Arc (LSA by software)	●	●	●	●	●	●
Standard pulse	-	-	●	●	●	●
Quick pulse	-	-	●	●	●	●
Flux Core Carbon Steel/DC	●	●	●	●	●	●
Carbon steel	●	●	●	●	●	●
Stainless steel	●	●	●	●	●	●
Aluminum alloy	-	-	-	-	●	●
Function						
U-disk interface	●	●	●	●	●	●
SMARC interface	○	○	○	○	○	○
Push-pull welding torch interface	○	○	○	○	○	○
Wire feeder AV LED display (manual type)	○	○	○	○	○	○
Technical Parameters						
Control Method	Digital IGBT Control		Digital IGBT Control		Digital IGBT Control	
Input voltage	3-phase AC 380 V (±25%)		3-phase AC 380 V (±25%)		3-phase AC 380 V (±25%)	
Input frequency	40~70Hz	40~70Hz	40~70Hz	40~70Hz	0~70Hz	40~70Hz
Inverter switching frequency	110kHz	110kHz	110kHz	110kHz	110kHz	110kHz
Rated input capacity	24.1KVA/22.1KW	13.7KVA/12.6KW	24.1KVA/22.1KW	13.7KVA/12.6KW	24.1KVA/22.1KW	13.7KVA/12.6KW
No-load voltage	77V	77V	77V	77V	77V	77V
Rated output current	500A	350A	500A	350A	500A	350A
Rated output voltage	39V	31.5V	39V	31.5V	39V	31.5V
Duty cycle	60%@500A (@25°C) 100%@350A	100%@350A	60%@500A (@25°C) 100%@350A	100%@350A	60%@500A (@25°C) 100%@350A	100%@350A
Power factor	0.92	0.92	0.92	0.92	0.92	0.92
Efficiency	88%@500A	87%@350A	88%@500A	87%@350A	88%@500A	87%@350A
Output characteristics	CV	CV	CV	CV	CV	CV
Wire feeding speed	0.5~28m/min	0.5~28m/min	0.5~28m/min	0.5~28m/min	0.5~28m/min	0.5~28m/min
Parameter JOB	50	50	50	50	50	50
Operating temperature	-10°C~40°C (welding power source can be started at -39°C)					
Dimension	L*W*H (mm) 647*291*572					
Weight	40KG	40KG	40KG	40KG	40KG	40KG
Enclosure rating	IP23 S	IP23 S	IP23 S	IP23 S	IP23 S	IP23 S
Insulation class	H	H	H	H	H	H
Cooling method	Forced air	Forced air	Forced air	Forced air	Forced air	Forced air

Dex2 Communication Protocols with Robots

Function	TAST(Thru-arc Seam Tracking)	Touch Sensing		Communication Protocols with Robots					
		80-400V	Analog	DeviceNet	CANopen	MEGMEET CAN	EtherNet/IP	EtherCAT	Profinet
		●	●	○	○	○	○	○	○

● Standard ○ Optional * Customized

Robotic Wire Feeder Selection

Series	Model Name	Dimensions (L*W*H) mm	Welding Torch Interface	Weight (kg)	
Dex 2	WF1-50ZE	230x170x170	European type	6kg	
	WF1-50ZER	230x170x170	Asian type	6kg	
	WF1-50PW-7	223x152x221	European type	7kg	
	WF1-50PWR-7	223x152x221	Asian type	7kg	

Manual Wire Feeder Selection

	Enclosed wire feeder (optional)	Open wire feeder
Model Name	WF2-50P	WF2-50ZP
Wire feeding drive control mode	Photoelectric encoder feedback /Back electromotive force	Back electromotive force
Wire feeder rated current	4.5A	4.5A
Wire feeder rated voltage	24V	24V
Wire feeding speed	0.5~28m/min	0.5~28m/min
Wire feeding roller diameter	φ0.8~1.6 mm	φ0.8~1.6 mm
Wire spool type	Standard wire spool	Standard wire spool
Drive unit	Double drive four rollers	Double drive four rollers
Wire feeder torch interface	European interface	Asian interface
Dimension	630*250*400	519*200*370
Weight	14.5	9.6



Dex2 Ultra 400AC
Variable Polarity Full Digital IGBT
Inverter AC-MIG Welding Machine

Dex2 Ultra 400AC

Variable Polarity Full Digital IGBT
Inverter **AC-MIG** Welding Machine

AC/DC
~

380
3PH

40~70
Hz

CV

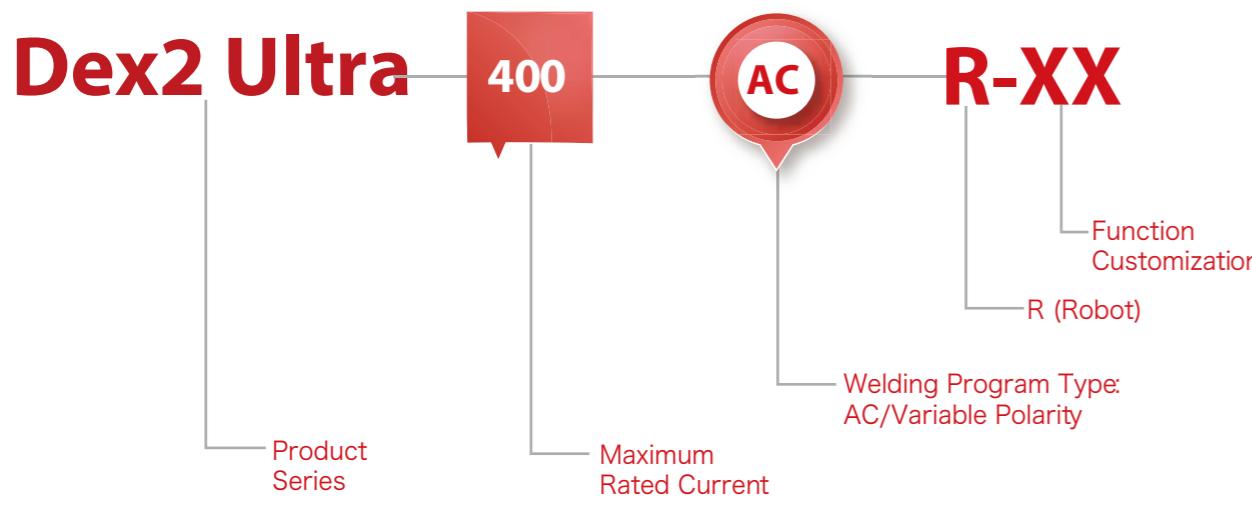
110
kHz



Features

- Superior welding programs in AC-Pulse MIG, AC short-circuit transition, quick pulse and others, to easily realize high-performance welding of carbon steel, stainless steel, aluminum alloy and other materials;
- Wire feeding speed is faster and deposition rate is increased by more than 20%, under the same current;
- Patented software algorithm enables high-frequency switching of polarity, low heat input, less spatter, and 0.5mm aluminum alloy welding;
- By adjusting positive and negative polarity ratio of EN/EP, heat input is optimized, and optimal welding of large-gap bridge can be easily achieved;
- Arc energy is controllable and effectively suppresses the generation of welding fumes. Glossiness of Al-Mg welding is as good as Al-Si welding with more beautiful weld shape;
- Inverter frequency up to 110KHz enables higher control precision and more stable arc;
- Comprehensive communication interfaces are able to communicate with different brands of robots and automation devices;
- Touch sensing function with 80-400 voltage is easier to break down the rust on the surface of workpiece;
- IOT interface is reserved to connect with Megmeet SMARC cloud system;
- U-disk upgrade function ensures customers to easily obtain Megmeet's most cutting-edge welding technology;
- Application industries: precision welding in automobiles and parts, two/tricycles, aerospace, military industry, rail vehicles, new energy, etc.





- Low spatter arc (LSA) CO₂/MAG
- Pulse MAG/MIG
- Quick Pulse MAG/MIG
- Flux Core Carbon Steel/DC
- AC short circuit transition CO₂/MAG/MIG
- AC Pulse MAG/MIG
- AC double pulse MAG/MIG
- Carbon steel
- Stainless steel
- Aluminum alloy
- U-disk interface
- SMARC IOT
- Other customization

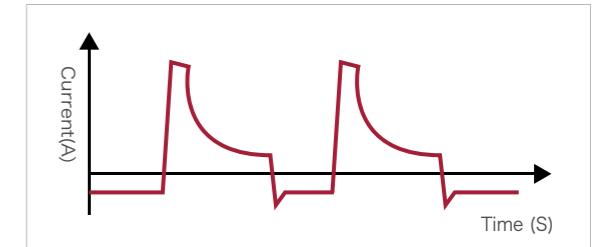
Standard Customized

AC Pulse

Accurate and fast switching of pulse polarity is achieved by Megmeet patented algorithm, which integrates high speed&high efficiency of MIG welding with high quality of TIG welding, greatly optimizes welding production efficiency and welding quality.

Welding Features:

- High inverter frequency, more stable arc, higher precision;
- With unique negative stability algorithm, AC MIG is as stable as DC welding;
- Full-process heat input management, precise control of penetration depth, to be easily competent in high-quality welding of 0.5mm ultra-thin plates;
- By adjusting EN/EP ratio, wire melting speed can be dynamically regulated to realize higher deposition rate and higher welding efficiency;
- Gap tolerance is high and bridging ability is good, suitable for welding of large-gap lap joints and uneven gaps;
- Welding fume is greatly reduced without black smoke deposition on welding seam, and welding surface is more beautiful.

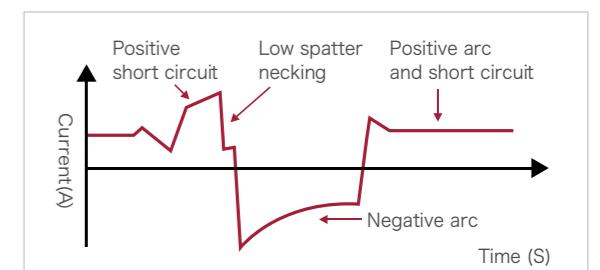


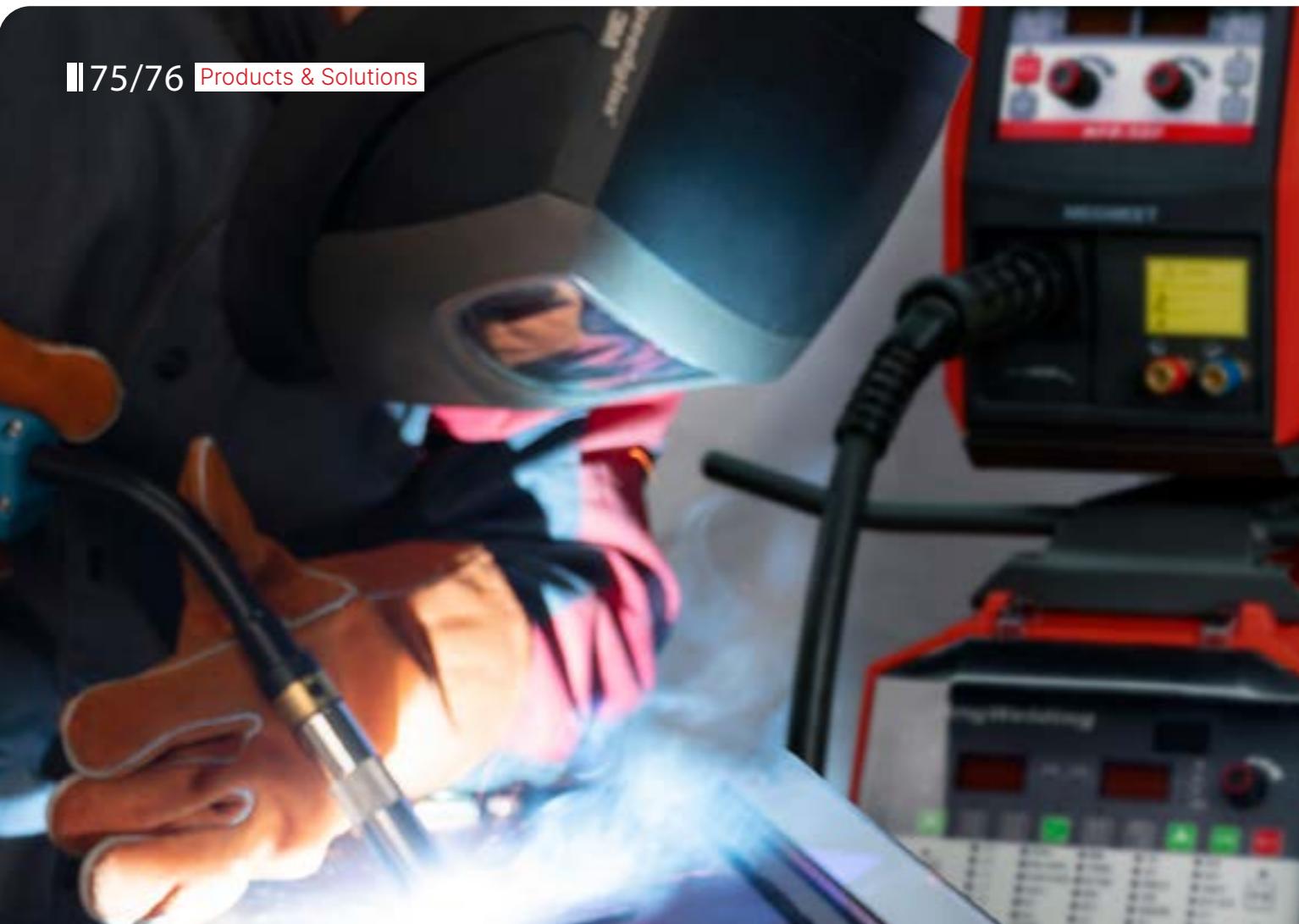
AC Short Circuit Transition

High-frequency hardware system working with Megmeet patented algorithm could accurately pre-judge droplet necking. Droplet transition instant polarity is switched to negative arc, and droplet flows freely into fusion pool, which fundamentally eliminates the generation of large-particle spatter and smoke, and ensures high-speed and high-quality welding.

Welding Features:

- High-speed and stable alternation of polarity, softer arc, 90% less spatter than traditional DC welding;
- Smooth droplet transition, small fluctuation in fusion pool, and weld shape is more delicate and beautiful;
- Gap tolerance is high and bridging ability is good, suitable for welding of large gaps and uneven gaps;
- Ultra-low heat input, to be easily competent in high-quality welding of 0.5mm ultra-thin plates
- Higher deposition efficiency and faster welding speed, and wire feeding speed is increased by 20% under the same current;
- Arc energy is low and dust amount during welding is small.





Multiple Welding Programs

AC Pulse

It is mainly used for welding thin plates of aluminum alloy with lower heat input. It can easily realize superior welding of 0.5mm ultra-thin plates and higher deposition efficiency. Welding speed is increased by 20% compared with DC pulse, less dust without black oxides around welding seam.

AC Short Circuit Transition

It is mainly used to weld thin plates of carbon steel and alloy steel with lower heat input, be competent in welding of 0.5mm ultra-thin plates. Higher deposition efficiency and stronger gap tolerance is ensured.

QPT(Quick Pulse Technology)

It is mainly suitable for welding of medium&thick plates of carbon steel and stainless steel. It combines advantages of DC and pulse to achieve faster welding speed and less spatter.

Product Specification

	Dex2 Ultra 400AC	Dex2 Ultra 400ACR
Manual type		
Robotic type*		
Welding Programs	DC	AC
LSA (Low Spatter Arc by Software)	●	-
Pulse	●	-
Quick pulse	●	-
Flux core carbon steel/DC	●	●
AC short circuit transition	-	●
AC pulse	-	●
AC double pulse	-	●
Carbon steel	●	●
Stainless steel	●	●
Aluminum alloy	●	●
Function		
U-disk interface	●	●
SMARC IOT	○	○
Technical Parameters		
Control Method	Digital IGBT Control	
Input voltage	3-phase AC 380 V (±25%)	
Input frequency	40~70Hz	
Inverter switching frequency	110kHz	
Rated input capacity	16.8KVA/15.5KW	
No-load voltage	77V	
Rated output current	DC 380A/350A	AC 350A/315A
Rated output voltage	DC 33V/31.5V	AC 31.5V/29.7V
Duty cycle	60%@380A 100%@350A	60%@350A 100%@315A
Power factor	0.92	
Efficiency	88%@400A	
Output characteristics	CV	
Wire feeding speed	0.5~28m/min	
Parameter JOB	50	
Operating temperature	-10°C~40°C (welding power source can be started at -39°C)	
Dimension	L*W*H (mm) 647*291*572	
Weight	40KG	
Enclosure rating	IP23 S	
Insulation class	H	
Cooling method	Forced air	

● Standard ○ Optional

Dex2 Communication Protocols with Robots

Function	TAST(Thru-arc Seam Tracking)	Touch Sensing	Communication Protocols with Robots						
			80-400V	Analog	DeviceNet	CANopen	MEGMEET CAN	EtherNet/IP	EtherCAT
			●	●	○	○	○	○	●

● Standard ○ Optional ● Customized

Robotic Wire Feeder Selection

Series	Model Name	Dimensions (L*W*H) mm	Welding Torch Interface	Weight (kg)	
Dex 2	WF1-50ZE	230x170x170	European type	6kg	
	WF1-50ZER	230x170x170	Asian type	6kg	
	WF1-50PW-7	223x152x221	European type	7kg	
	WF1-50PWR-7	223x152x221	Asian type	7kg	

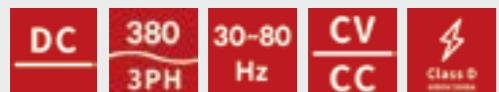
Manual Wire Feeder Selection

	Enclosed wire feeder
Model Name	WF2-50P
Wire feeding drive control mode	Photoelectric encoder feedback /Back electromotive force
Wire feeder rated current	4.5A
Wire feeder rated voltage	24V
Wire feeding speed	0.5~28m/min
Wire feeding roller diameter	φ0.8~1.6 mm
Wire spool type	Standard wire spool
Drive unit	Double drive four rollers
Wire feeder torch interface	European interface
Dimension	630*250*400
Weight	14.5



Ehave2 CM Series

CO₂/MIG/MAG/DC TIG/MMA/Arc Gouging
All-in-one Machine

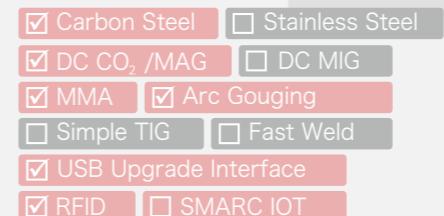


Product Features

- A variety of programs combined into one machine, supporting CO₂/MAG/MIG/TIG/MMA/ Arc Gouging/Fast Weld and others, could be expanded to robotic welding power source, rich in functions to meet various application conditions;
- Equipped with more than 20 items of independent patented technologies including arc starting soft-transition control, TIG arc ignition energy control, higher reliability and better performance;
- Droplet cleaning detection and control technology is adopted to automatically remove the end of wire to improve arc start success rate and quality;
- Extensive expert welding database, up to 99 groups of welding parameters storage/calling channels with one-key calling and easy operability;
- RFID card-linking function, more convenient management of welding machine usage authority, seamless connection with Megmeet SMARC System(welding management system);
- Software up-gradable to ensure customers obtaining Megmeet foremost welding process conveniently;
- With welding current and voltage limiting function, upper/lower limits of welding current and voltage can be set to prevent operating outside WPS parameters;
- Welding voltage and welding current compensation function to guarantee the stability of long-cable welding and the consistency of actual values and preset values;
- Heat conduction efficiency of IGBT is increased by 50%, and whole series of Ehave-2 products meet the national standard of first-class energy efficiency, more energy-saving and environment-friendly, and carbon emissions is reduced.
- Lightning protection level reaches Class D, wide-range input voltage is more suitable for severe power grids, and can expand to work with generator;
- All models of Ehave-2 series are 100% rated duty cycle, supporting to weld stably at a distance up to 50 meters and suitable for industrial heavy-duty harsh environments.



Ehave2 CM630B/500B/350B



Standard Not Applicable



Front Display Panel



Ehave2(Basic Version) CM630B/500B/350B



Ehave2(Multi-function Version) CM630M/500M/350M

Multiple Function Options

CO₂/MIG/MAG

- Support Synergic/Separate adjustment, automatic matching of key parameters to meet high-quality welding requirements;
- 0.8, 1.0, 1.2, 1.4, 1.6mm welding wire, and customized 2.0 and 2.4mm welding process(SP);
- MAG flux-cored carbon steel and MIG DC stainless steel is also weldable.

Fast Mode Weld Function

- Mainly suited to spot welding and short-seam welding, and welding speed is able to increase with this function.

Simple DC TIG Function

- Scratch start/lift-start function is available for multi-purpose usages;
- Extensive parameter settings are friendly for various welding operations from thin to medium plates;
- Through overlapping control of arc, loss of tungsten electrode can be reduced and success rate of arc starting can reach 100%.

MMA Function

- Switch to "MMA function" through internal menu, and supports welding electrodes with a diameter of up to 6.0mm and suitable for various acid-type and alkaline welding electrodes;
- Applicable for long cable with adjustable arc starting current and arc force.

Arc Gouging Function

- With the function of "arc gouging", carbon rods with maximum diameter of 12mm can be gouged (by 630A model) for all positions;
- Quick cleaning of welding roots and gouging of reworked welding seams.

Application in Outdoor Power Generation Occasions (optional)

- A voltage stabilization module is designed for outdoor power generation.

RFID Card Linking

- RFID card swiping function enables quick linking between welding personnel and welding machines;
- Coordinated with SMARC welding information cloud-platform to realize more intelligent functions as: parameter issue, welding hours statistics, welding parameter traceability, etc.



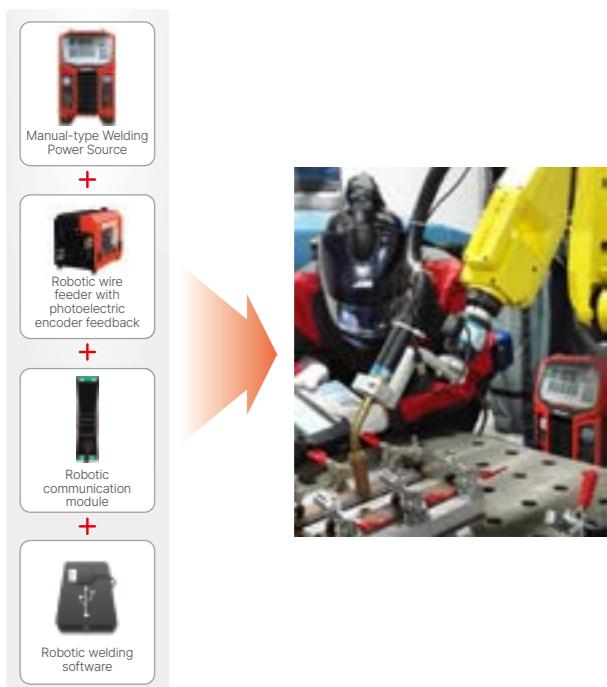
U-Disk Interface

- To ensure customers conveniently obtaining Megmeet's foremost welding programs and function customization;
- Welding machine can be upgraded through U disk.



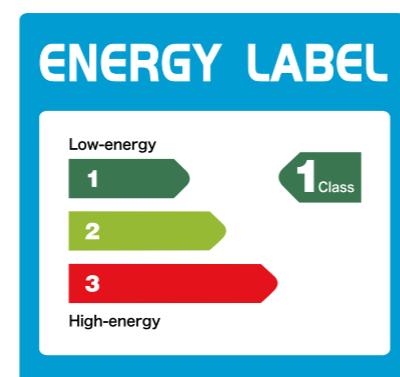
↑ Intelligent Upgrade

With additional robotic accessories package, manual-type welding power source is able to be expanded to robotic welding power source.



1 Class First-Class Energy Efficiency

With the inverter technology of first-class energy efficiency, 3 kWh/day of electricity can be saved (only based on 300A welding with 4 working hours a day), compared with other inverter welding machines.



Specification

Ehave-2 Communication Protocols with Robots

Function	Communication Protocols with Robots									
	TAST(Thru-arc Seam Tracking)	Touch Sensing	54V	Analog	DeviceNet	CANopen	MEGMEET CAN	EtherNet/IP	EtherCAT	Profinet
	●	●	○	○	○	○	○	●	●	●
● Standard ○ Optional ● Customized										

Robotic Wire Feeder Specification

Machine Model	Model	Dimensions(L*W*H) mm	Welding Torch Connector	Weight
Ehave-2 Wire Feeder	WF1-50ZE	247.6x161.2x220.6	Euro Type (Default)	7.4kg
	WF1-50ZER	222.6x151.5x220.6	Japanese Type	7.15kg

Ehave-2 Robotic Wire Feeder Selection

Welding Power Source	Model	Product Diagram
	Ehave2 CM630R	
	Ehave2 CM500R	
	Ehave2 CM350R	
(500A as example)	WF1-50ZE Euro Connector(Default)	
	WF1-50ZER Japanese Connector(Optional)	

Manual-type Wire Feeder Specification

Wire Feeder	LED Display (Multifunction Version)		LED Display (Basic Version)		Knob-Type Display	
	Motor Type	Printed Motor	Worm Gear ^[1]	Printed Motor	Worm Gear ^[1]	Printed Motor
Bracket Type	Single Drive/Double Drive*		Single Drive/Double Drive*		Single Drive/Double Drive*	
Adaptive Machine Model	Ehave2 CM630M/CM500/CM350M		Ehave2 CM630B/CM500B/CM350B		Ehave2 CM630B/CM500B/CM350B	
Communication with Welding Machine	HP CAN	HP CAN	HP CAN	HP CAN	Analog	Analog
Wire Feeding Drive Control Way	HF BEMF Control	HF BEMF Control	HF BEMF Control	HF BEMF Control	HF BEMF Control	HF BEMF Control
Rated Current	5.5A	3.5A	5.5A	3.5A	5.5A	3.5A
Rated Voltage	24V	24V	24V	24V	24V	24V
Wire Feeding Speed	1.2~28m/min	1.2~28m/min	1.2~28m/min	1.2~28m/min	1.2~28m/min	1.2~28m/min
Wire Dimension	0.8~1.6	0.8~1.6	0.8~1.6	0.8~1.6	0.8~1.6	0.8~1.6
Welding Torch Default Connector ^[2]	Japanese Type	Japanese Type	Japanese Type	Japanese Type	Japanese Type	Japanese Type
Dimension	519mm×200mm×370mm					
Weight	9.6kg/10.5kg	8.7kg/9.6kg	9.6kg/10.5kg	8.7kg/9.6kg	9.6kg/10.5kg	8.7kg/9.6kg



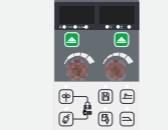
*: Non-standard configuration, optional upgrade according to demand (wire spool cover could be added if required).

[1]: Worm Gear Motor: suitable for fast start/fast stop, high-rhythm welding operations

[2]: Japanese connector is defaulted and Euro connector is optional (should be noted in PO).

Manual-type Ehave-2 Recommended Selection

(500A As Example)

Manual-type Configuration	Model	Type	Product Diagram
	Ehave2 CM500B	Basic Version	 
Ehave2-B Series Default Configuration	WF2-50ZPR	Single Drive/Printed Motor/ Knob-type Display	 
Ehave2-M Series Default Configuration	Ehave2 CM500M	Multifunction Version	 
	WF2-50ZPR-DM7	Single Drive/Printed Motor/LED Display(Multifunction Version)	 

Optional Selections for Wire Feeder:

- [1]: Wire spool cover;
- [2]: Printed motor with double drive;
- [3]: Worm gear motor with single/double drive;
- [4]: Knob-type upgraded to LED display



Artsen CM500 C

Born for Long-reach Welding.

100 MTR

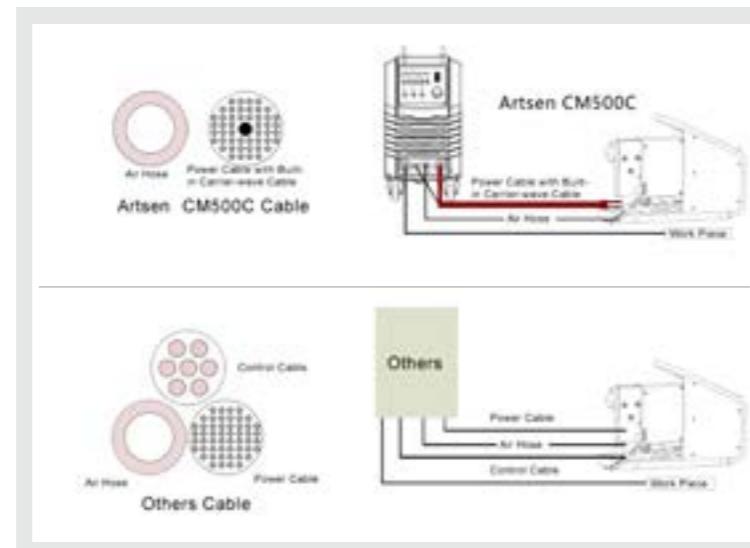


Artsen CM500C

Specially designed for sites and application with super long-reach welding such as shipbuilding, marine engineering and steel construction



Pioneer in adapting the Two-way Digital High-speed Carrier-wave Communication Technology

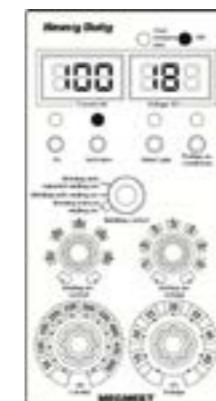


Product Features:

- Digital Microprocessor Controlled Inverter Technology
- Longer and 30% lighter interconnection cable set up to 100 m
- Stronger inter-connection cable set, better protection, less cable damages, much less down-time
- MAG / CO2 process with synergic control and MMA as standard
- Lighter but more functional wire-feeder for better mobility and easier operation
- Stable welding with stick-out length up to 30mm
- Achieving stabilized vertical-up welding at 150A with flux-cored wire and 50 m inter-connection cable set
- Protection of PCB and wire-feeder from vibration, collision, moisture and salty air
- Superior reliability with self-protecting design and error code display for easy trouble-shooting

Advantages of the Two-way Digital High-speed Carrier-wave Communication Technology

	Communication	Anti-interference Capability	A / V display on the wire-feeder	Reliability in wire-feeder PCBs
Artsen CM500C	the Two-way Digital High-speed Carrier-wave Communication Technology	Excellent	Yes	High
Traditional Carrier-wave Technology	One-way analog carrier-wave technology	Normal	No	Normal



The light-weighted wire-feeder supports A / V display. It also allows setting up of A / V, as well as parameters for starting and crater arc. It brings huge convenience to long-reach welding, and saves welders' time.

Industries and Application



Marine engineering



Technical Specification

Parameters	Artsen CM500C		
Control Mode	Fully Digital-control		
Carrier-wave Communication Method	Two-way Digital High-speed Carrier-wave Communication Technology		
Rated Input Voltage	AC 3PH 380V -15% ~ 400V +15% (3PH 323V ~ 3PH 460V)		
Input Frequency	30 ~ 80 Hz		
Rated Input Power	24KVA(22.3KW)		
Power Factor	0.93		
Efficiency	86%		
Rated OCV	75V		
Rated Output Current	50 ~ 500A		
Rated Output Voltage	12 ~ 50V		
Duty Cycle (40°C / 10 min)	500A / 39V 100% @40°C		
Certification	EN 60974-1		
Protection Against Lightning	Class D (6000V/3000A)		
Welding Operation Mode	2T / 4T / Special 4T		
Inductance Scope (Soft / Strong Arc)	-9 ~ +9		
Parameter Channel	10 (standard)		
Reserved Communication Interface	CAN		
Cooling Mode	Intelligent air cooling		
Wire-feeder Digital Display	Included, welding parameter can be adjusted remotely		
Wire-feeding Speed	1.4 ~ 24m/min		
Insulation Grade	H		
Ingress Protection	IP23 S		
Working Temperature	Industrial heavy duty, -39°C ~ +50°C		
Dimension (L / W / H)	300 × 480 × 620mm		
Gross Weight	52kg		
Welding Process	Welding Material	Welding Wire Diameter (mm)	Shield-gas
Synergic CO ₂ & MAG	Solid wire / Carbon steel	1.0/1.2/1.6	100% CO ₂
	Solid wire / Carbon steel	1.0/1.2/1.6	80% Ar + 20% CO ₂
	Flux-cored / Carbon steel	1.2/1.4/1.6	100% CO ₂
DC MMA	Electrode	2.0 / 2.5 / 3.2 / 4.0 / 5.0 / 6.0 mm	

Wire-feeder	Standard	Euro	Lite
Connector	Japanese-type	Euro	Japanese-type
Roller	4-roller	4-roller	2-roller



MetaTIG 315/400/500 DC

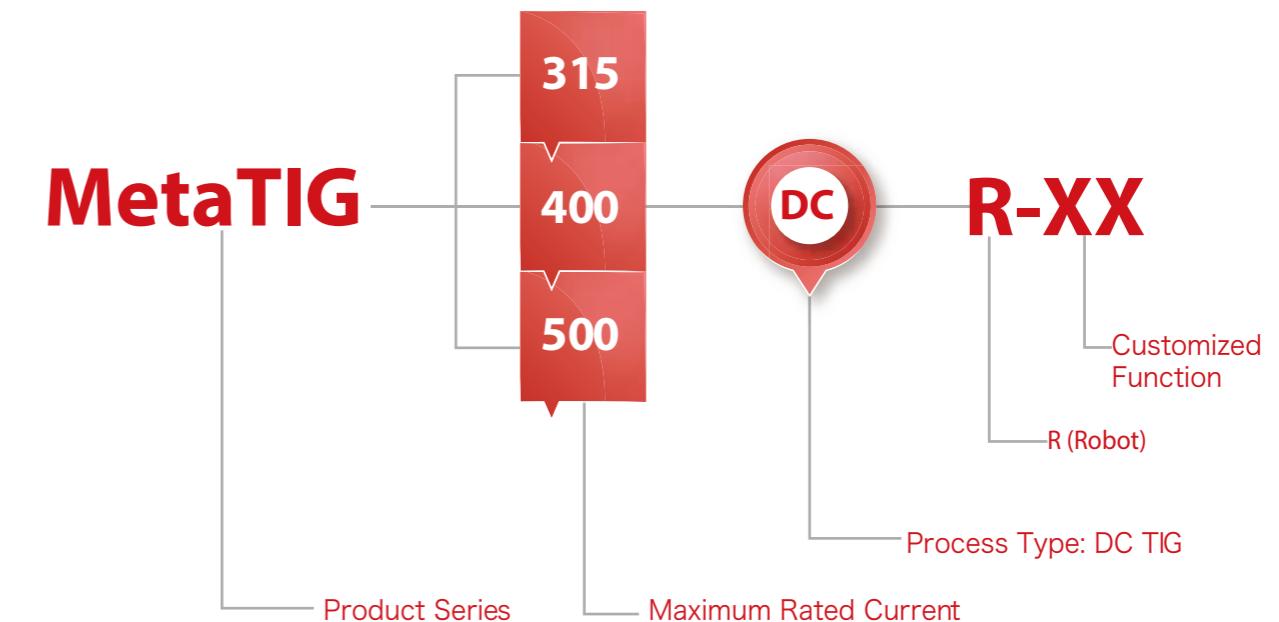
Full-digital IGBT Inverter
Multifunctional DC TIG



MetaTIG 315/400/500 DC

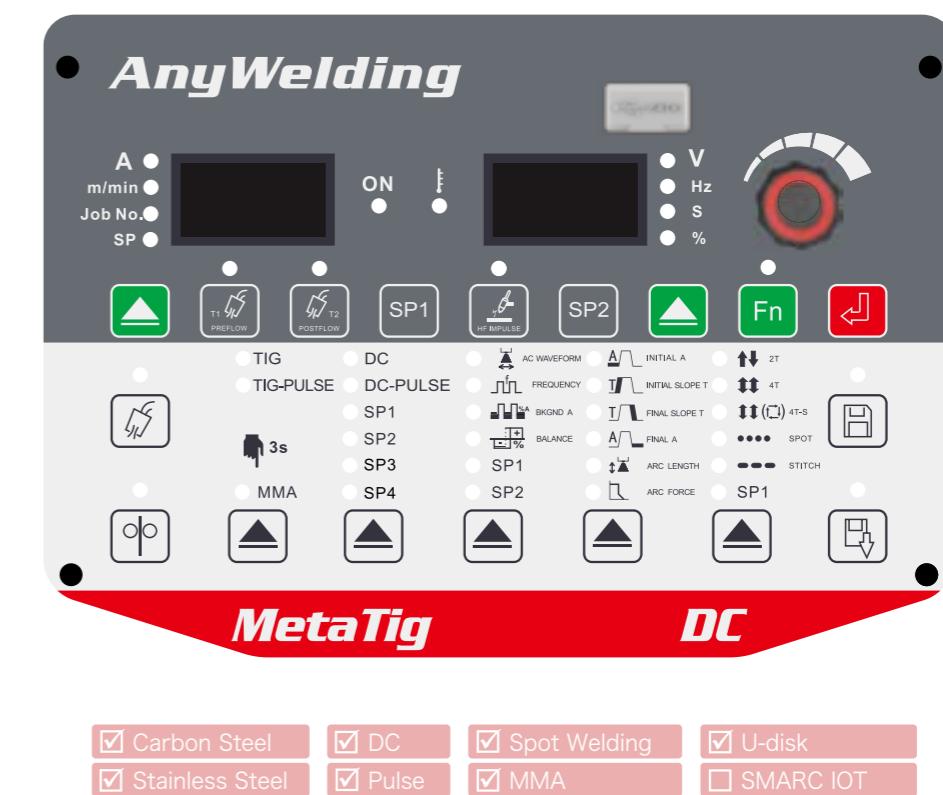
Full-digital IGBT Inverter Multifunctional DC TIG

DC **380**
3PH **40~70**
Hz **CC** **Class B** **Foot** **Earth**



Product Features

- 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.



Carbon Steel DC Spot Welding U-disk
 Stainless Steel Pulse MMA SMARC IOT

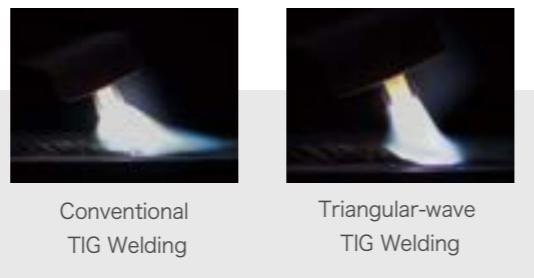
Extensive Welding Process

Diversified welding applications from ultra-thin to medium-thick plates with high-performance welding quality.

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.

Multiple waveform controls provide optimal combination according to welding needs

- With triangle wave, square wave, sine wave, trapezoidal wave and others;
- Optimal setting for waveform in different welding phases.

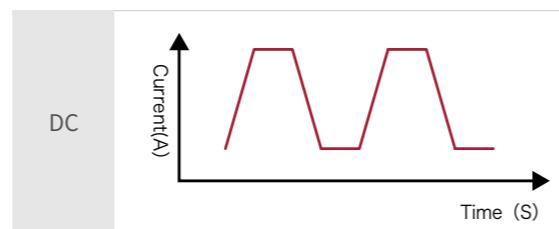
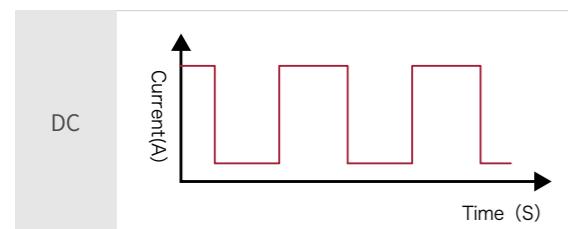


Square Wave

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.

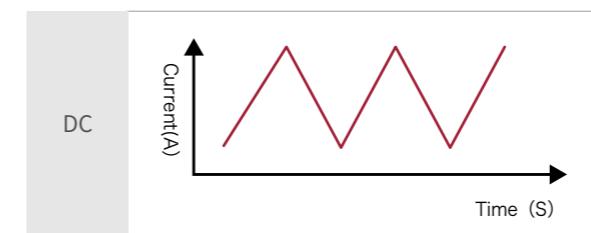
Trapezoidal Wave

Soft arc brings good wetting effect to fusion pool, suited to groove welding and overhead welding.



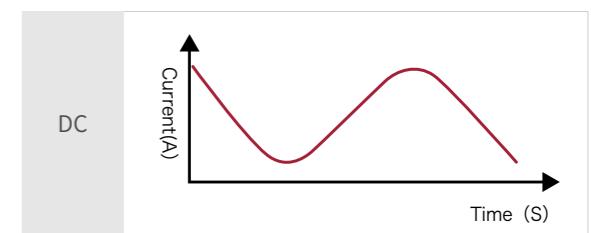
Triangle Wave

Short peak-time and low heat-input, suitable for thin sheet welding.



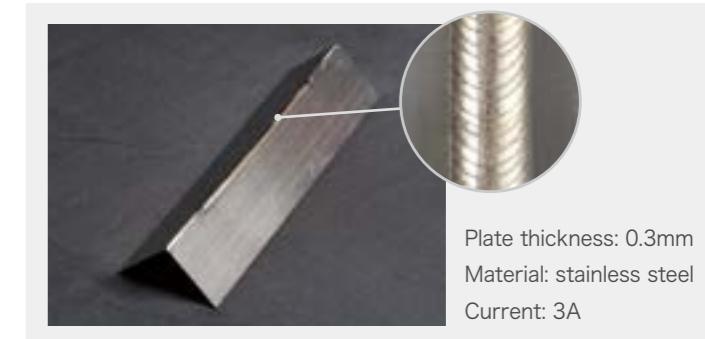
Sine Wave

Arc noise is smaller and softer.



Arc is able to start and stabilize at 3A in DC welding

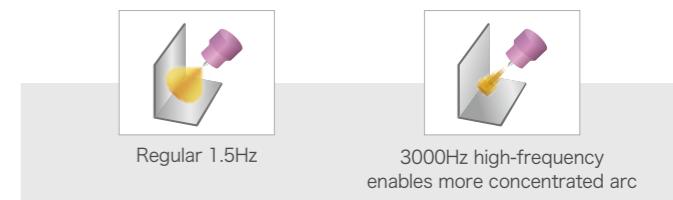
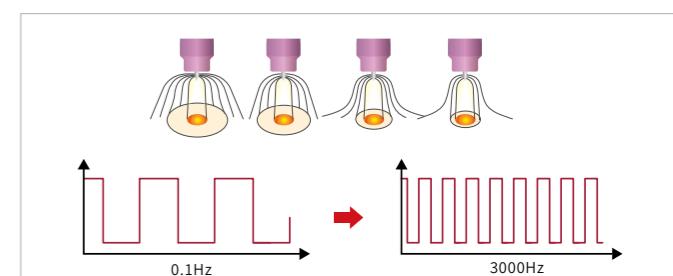
- Unique circuit design supports arc to start at 3A and stabilize at 3A in DC welding, ensuring continuous arc in very small current.



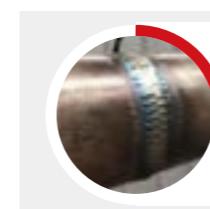
0.1Hz-3000Hz High Frequency Output

Suited to high-quality welding from extreme thin to medium-thick plates

- In low-frequency pulse (0.1-10Hz), arc column is wide, adaptive for all-position welding;
- In medium-high frequency pulse (10-3000Hz), arc directivity is strong and heat input is low, supporting high-speed welding and fillet welding in thin plates.

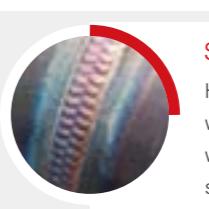


Be capable to weld diverse metal materials



Carbon Steel

Output current ripple is small and arc is stable. Fusion pool is well controllable.

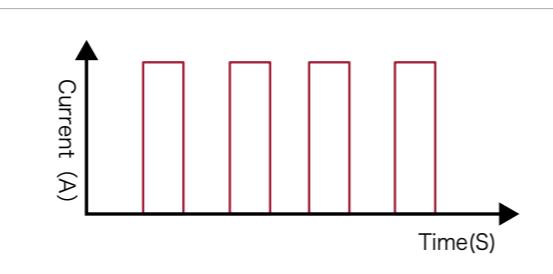


Stainless Steel

High-frequency pulse effectively compresses welding arc and reduce heat-input, bringing easier weldability and better welding shape to stainless steel thin plate.

High-stability TIG Spot Welding Function

- Fine regulation is suitable for high-quality welding of ultra-thin plates;
- Setting range of spot welding time is 0.1-30 seconds (tuning unit is 0.1 seconds). Arc is stable and welding spot is consistent.



U-Disk Interface

- To ensure customers quickly obtaining Megmeet foremost welding software and customized functions;
- Welding process and software could be sent to user by email and upgraded into machines through U-disk interface.



Circulating Water Cooler (Optional)

Circulating Water Cooler AnyCool-66	
Water cooler power supply	Powered by welding machine
Rated power	370W
Rated voltage	380V AC
Cooling water capacity	6.8L
Cooling water flow	3.5L/min
Cooling water maximum lift	20m
Flow alarm	✓



Foot Switch

- Easy operation in current adjustment;
- Current is able to be set with the maximum range: 5~500A;
- 5-pin control cable and 2 meters of length (can be extended as demand) to meet long-distance welding;
- Control modes are optional. Current can be adjusted by foot switch or by welding machine as needed.



Technical Specification

Model	MetaTIG 500 DC	MetaTIG 400 DC	MetaTIG 315 DC
Control method	Full-digital IGBT Control	Full-digital IGBT Control	Full-digital IGBT Control
Input voltage	3 Phase AC 380 V(±25%)	3 Phase AC 380 V(±25%)	3 Phase AC 380 V(±25%)
Input frequency	40~70Hz	40~70Hz	40~70Hz
Inverter switching frequency	110KHz	110KHz	110KHz
Rated input capacity	24.4KVA/22KW	17.5KVA/16KW	12.5KVA/11.4KW
Rated output no-load voltage	68V	68V	68V
Rated output current	500A	400A	315A
Rated output voltage	30V	26V	22.6V
Duty cycle	40%@500A	100%@400A	100%@315A
Set current range	DC TIG 3-500A MMA 30-500A	DC TIG 3-400A MMA 30-400A	DC TIG 3-315A MMA 30-315A
Power Factor	0.94	0.94	0.94
Efficiency	90%@500A	91%@400A	91%@315A
DC pulse frequency	0.1-3000Hz	0.1-3000Hz	0.1-3000Hz
Pulse Width	1-99%	1-99%	1-99%
Arc striking method	High-frequency arc/Lifting arc		
Parameter JOB	50 Groups	50 Groups	50 Groups
Rise Time	0-20s Continuous regulation (0.1s increments)		
Fall time	0-20s Continuous regulation (0.1s increments)		
Pre-gas time	0-25s Continuous regulation (0.1s increments)		
Post-gas time	0-25s Continuous regulation (0.1s increments)		
Output terminal	Quick plug	Quick plug	Quick plug
Foot Switch (optional)	✓	✓	✓
Protection rating	IP23	IP23	IP23
Insulation class	H	H	H
Cooling method	Forced-air	Forced-air	Forced-air
Dimensions (length x width x height)	647x291x572mm	647x291x572mm	647x291x572mm
Weight	37kg	37kg	37kg
Extension function			
IOT SMARC System (optional)	✓	✓	✓
USB Upgrade	✓	✓	✓
Robot (optional)	✓	✓	✓
LCD front panel (optional)	✓	✓	✓



MetaTIG 315/400/500 ACDC

Full-digital IGBT Inverter Multifunctional ACDC TIG



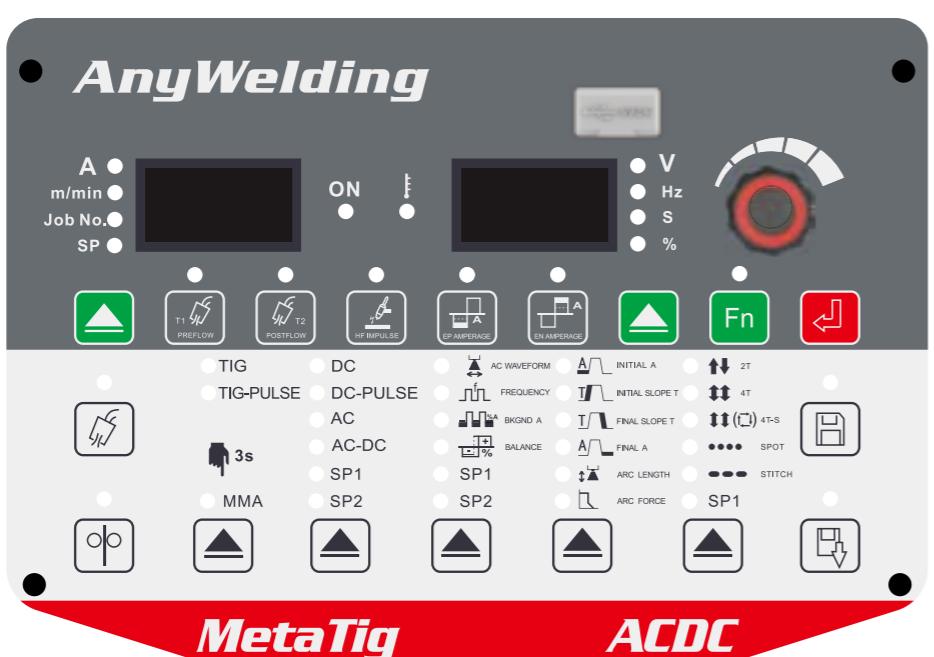
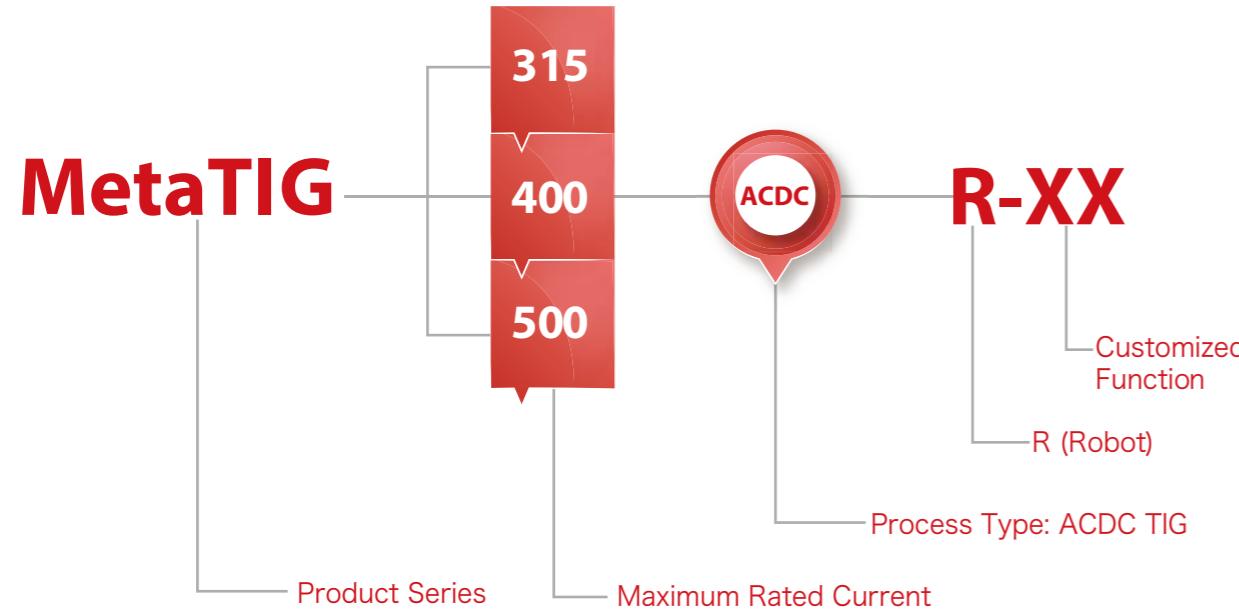
MetaTIG 315/400/500 ACDC

Full-digital IGBT Inverter
Multifunctional ACDC TIG

Product Features

- 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.





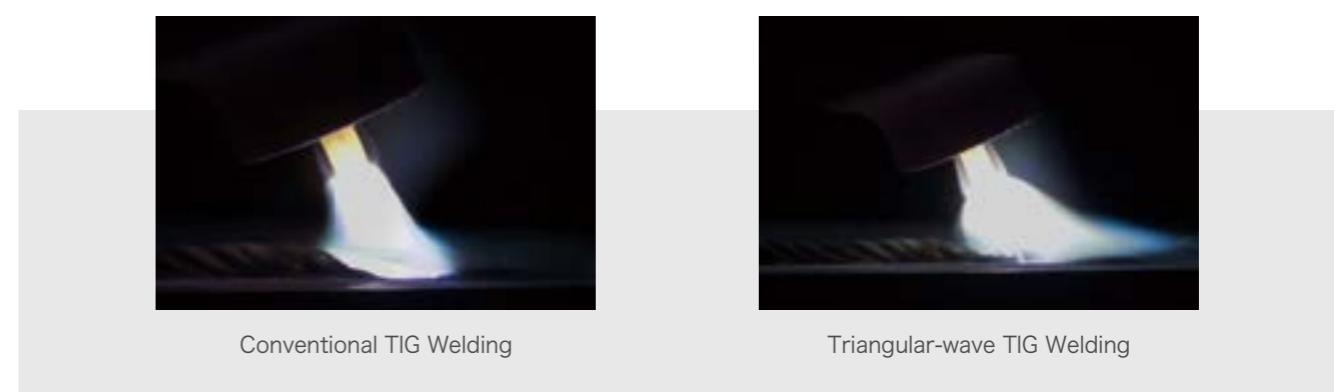
Carbon Steel Pulse Al Alloy DC Spot Welding AC-DC
 Stainless Steel TIG-Pulse MMA AC U-disk SMARC IOT

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.
AC TIG	AC TIG	Stable arc, AC frequency up to 300Hz	Aluminum, aluminum alloy, magnesium, etc.	Aluminum alloy pipelines, bicycle frame welding with high appearance requirements, etc.
AC TIG Pulse	Double Pulse AC TIG	Low heat input, clear fish-scale welding shape	Aluminum, aluminum alloy, magnesium, etc.	Aluminum alloy thin-plate and welding occasion requiring heat input and weld forming , etc.
AC-DC TIG Pulse	Double-pulse AC-DC TIG	Deeper penetration and less tungsten loss	Aluminum alloy, aluminum, magnesium etc.	Aluminum alloy medium&thick plates, and welding occasions requiring depth of penetration, 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.

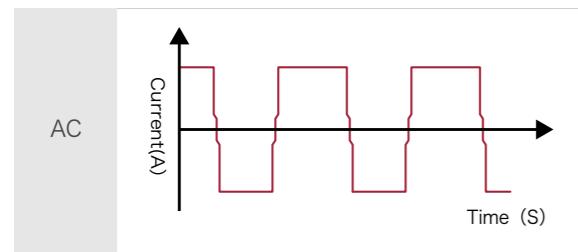
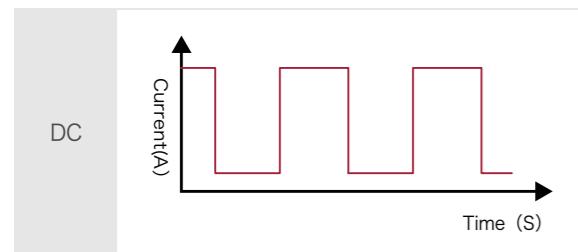
Multiple waveform controls provide optimal combination according to welding needs

- Multiple selections with triangle wave, square wave, sine wave, trapezoidal wave and others;
- Optimal setting for waveform in different welding phases;
- EN/EP range ratio is able to be adjusted to efficiently clean oxide film on surface while ensuring the depth of penetration.



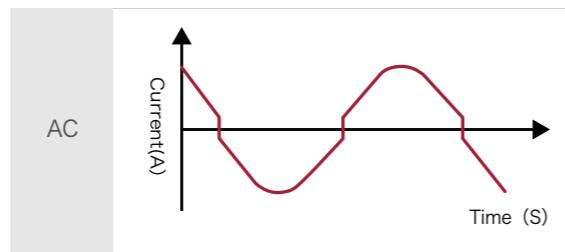
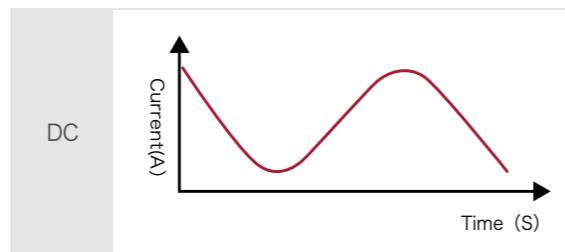
Square Wave

DC/AC square wave, polarity fast-switching, high-stability of arc, good dynamic characteristics, strong ability to clean aluminum oxide film, suitable for a wide range of aluminum and aluminum alloy welding.



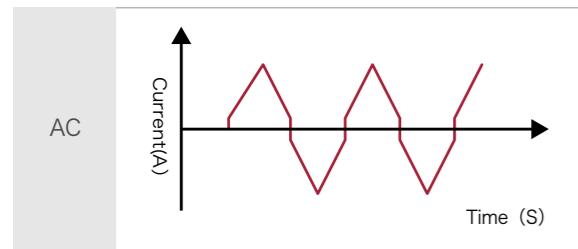
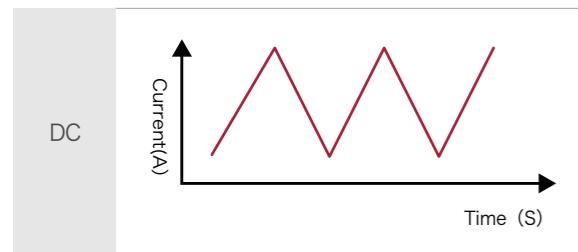
Sine Wave

DC/AC sine wave, rectangular transition at zero-crossing point, less and softer arc noise.



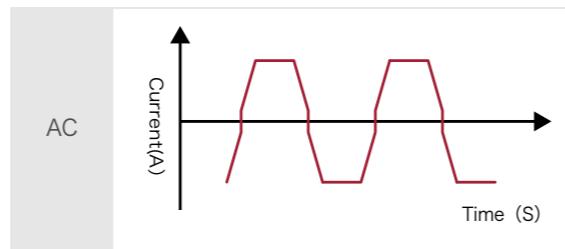
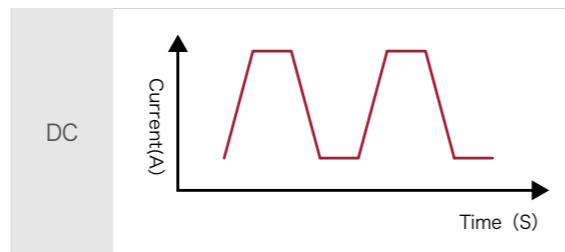
Triangle Wave

Short peak-time and low heat input, suited to welding of thermo-sensitive metals as thin plates.



Trapezoidal Wave

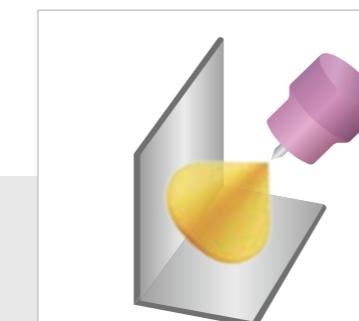
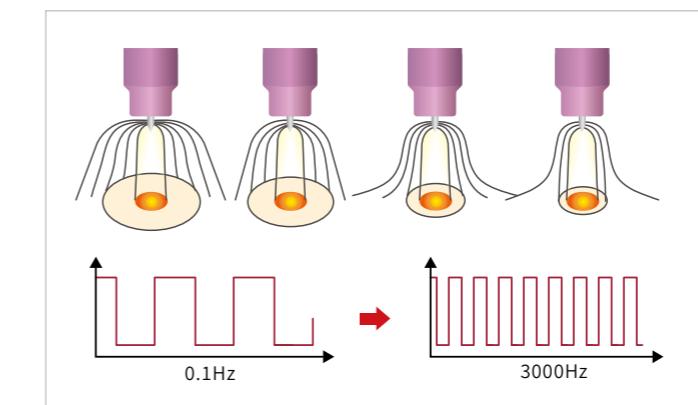
DC/AC trapezoidal wave, polarity stable-switching, soft arc brings good wetting effect to fusion pool, applicable for groove welding and overhead welding.



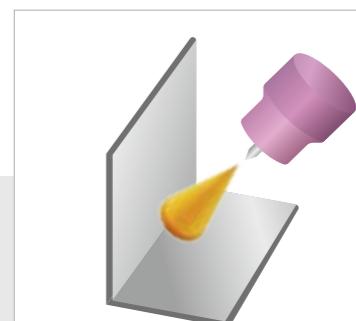
0.1Hz-3000Hz High Frequency Output

Enables high-quality welding from extreme-thin to medium-thick plates

- In low-frequency pulse (0.1-10Hz), arc column is wide, adaptive for all-position welding;
- In medium-high frequency pulse (10-3000Hz), arc directivity is strong and heat input is low, supporting thin plate high-speed welding and fillet welding.



Regular 1.5Hz



3000Hz high-frequency brings more concentrated arc

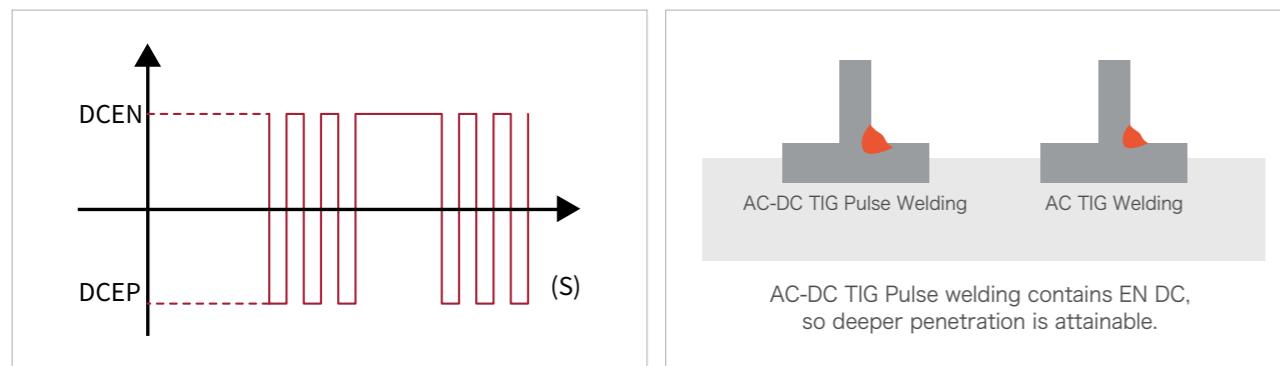
Arc is able to start and stabilize at 3A in DC welding

- Unique circuit design supports arc to start at 3A and stabilize at 3A in DC welding, ensuring continuous arc in very small current.



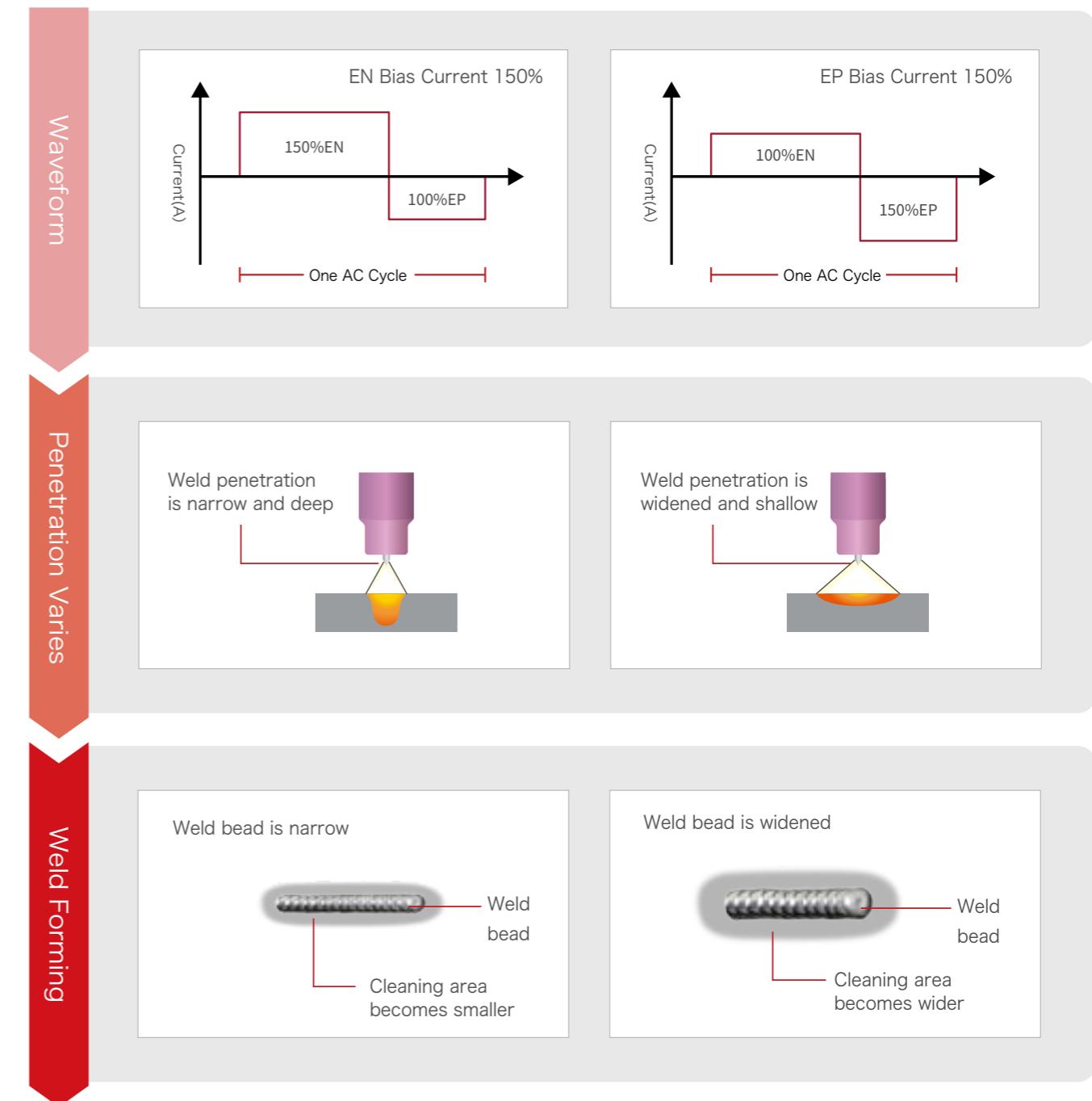
AC-DC Pulse

- DC is blended into AC-wave to further raise the heat input of base metal and increase the depth of penetration;
- In AC-DC Pulse, tungsten rod loss could be reduced in DCEN;
- In AC-DC Pulse, EP ratio is adjustable in AC section to improve cleaning effect;
- Arc stiffness and concentration is good and heat input is high to further improve welding efficiency.



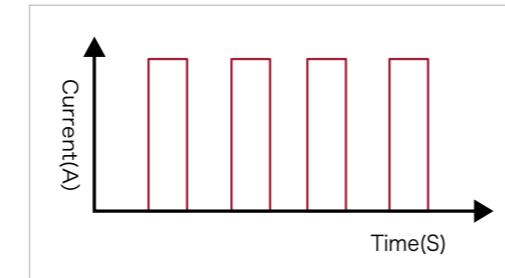
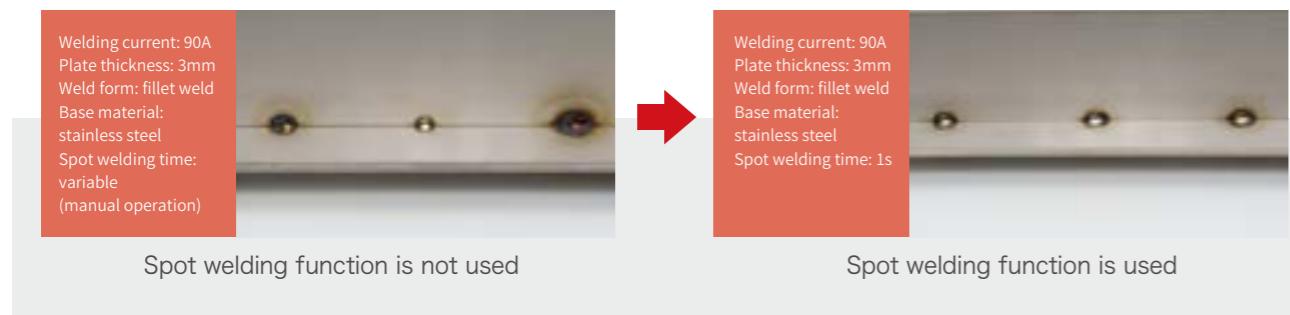
EN and EP range ratio is separately adjustable.

Range ratio of EN and EP is able to be independently adjusted to further change the cleaning strength of oxide film, as well as welding penetration depth and width, to realize easier welding operation.

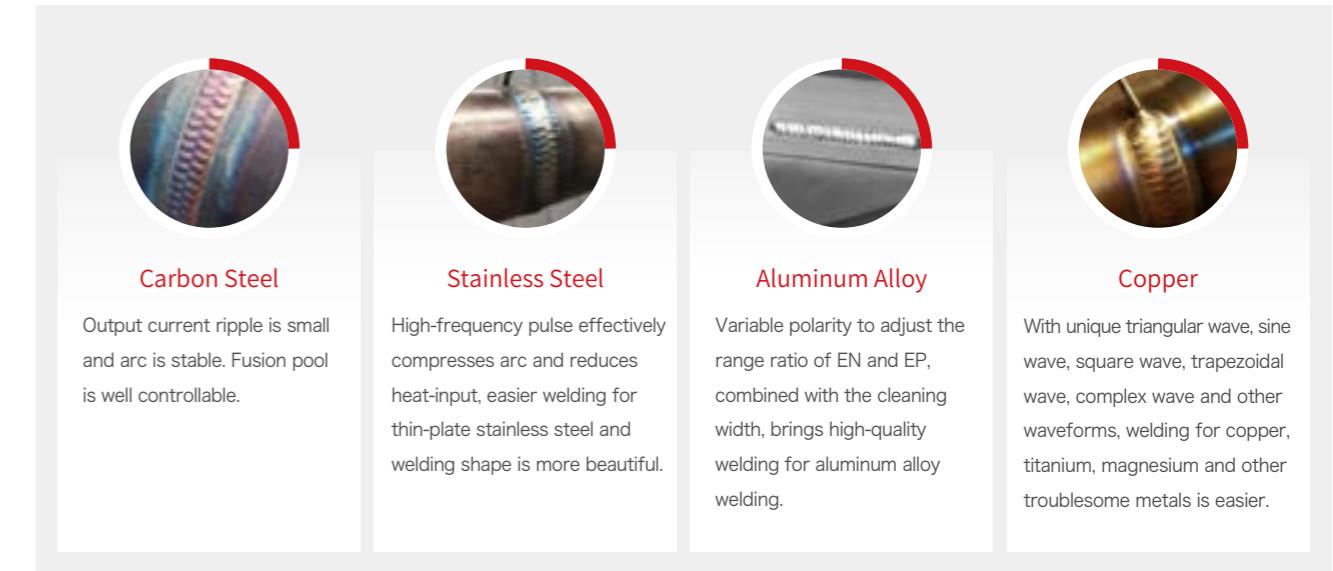


High-stability TIG Spot Welding Function

- Fine regulation is suitable for high-quality welding of ultra-thin plates;
- Setting range of spot welding time is 0.1-30 seconds (adjustment unit is 0.1 seconds) with stable arc and consistent solder joints



MetaTIG ACDC Series is capable to weld diversified metals.



U-Disk Interface

- To ensure customers quickly obtaining Megmeet foremost welding software and customized functions;
- Welding process and software could be sent to user by email and upgraded into machines through U-disk interface.



Aluminum Alloy Welding

- Machine Name: MetaTig 500 ACDC
- Product Name: Aluminum alloy oil-tank truck
- Welding position: Jointed welding of tank body plate
- Automation: Automation Device for Plate-Jointing
- Base material: Al-Mg/5182/65.7
- Welding consumables: Er5183/Medium 1.6
- Joint type: butt joint/no groove/no gap

Welding parameters:

- Peak current 280A
- Base current 140A
- Pulse frequency 2.2Hz
- AC frequency 60Hz
- Duty cycle 50%
- Wire feeding speed 1.8m/min
- Welding speed 170mm/min



Foot Switch

- Easy operation in current adjustment;
- Current is able to be set with the maximum range: 5-500A;
- 5-pin control cable and 2 meters of length (can be extended as demand) to meet long-distance welding;
- Control modes are optional. Current can be adjusted by foot switch or by welding machine as needed.



Circulating Water Cooler (Optional)

Circulating Water Cooler AnyCool-66	
Water cooler power supply	Powered by welding machine
Rated power	370W
Rated voltage	380V AC
Cooling water capacity	6.8L
Cooling water flow	3.5L/min
Cooling water maximum lift	20m
Flow alarm	✓



Technical Specification

Model	MetaTIG 500 ACDC	MetaTIG 400 ACDC	MetaTIG 315 ACDC
Control method	Full-digital IGBT Control	Full-digital IGBT Control	Full-digital IGBT Control
Input voltage	3 Phase AC 380 V(±25%)	3 Phase AC 380 V(±25%)	3 Phase AC 380 V(±25%)
Input frequency	40-70Hz	40-70Hz	40~70Hz
Inverter switching frequency	110KHz	110KHz	110KHz
Rated input capacity	25.2KVA/21.9KW	15KVA/13.5KW	12.9KVA/11.4KW
Rated output no-load voltage	68V	68V	68V
Rated output current	500A	400A	315A
Rated output voltage	30V	26V	22.6V
Duty cycle	20%@500A 100%@315A	60%@350A 100%@315A	100%@315A
Set current range	DC TIG 3-500A AC TIG 4-500A MMA 30-500A	DC TIG 3-400A AC TIG 4-400A MMA 30-400A	DC TIG 3-315A AC TIG 4~315A MMA 30-315A
Power Factor	0.94	0.94	0.94
Efficiency	87%@500A	88%@400A	88%@315A
DC pulse frequency	0.1-3000Hz	0.1-3000Hz	0.1-3000Hz
AC pulse frequency	20-300Hz	20-300Hz	20-300Hz
Pulse Width	1-99%	1-99%	1-99%
Arc striking method	High-frequency arc/Lifting arc		
Parameter JOB	50 Groups	50 Groups	50 Groups
Rise Time	0-20s Continuous regulation (0.1s increments)		
Fall time	0-20s Continuous regulation (0.1s increments)		
Pre-gas time	0-25s Continuous regulation (0.1s increments)		
Post-gas time	0-25s Continuous regulation (0.1s increments)		
Output terminal	Quick plug	Quick plug	Quick plug
Foot Switch(optional)	✓	✓	✓
Protection rating	IP23 S	IP23 S	IP23 S
Insulation class	H	H	H
Cooling method	Forced-air	Forced-air	Forced-air
Dimensions (length x width x height)	647x291x572mm	647x291x572mm	647x291x572mm
Weight	40kg	40kg	40kg
Extension function			
IOT SMARC System (optional)	✓	✓	✓
USB Upgrade	✓	✓	✓
Robot (optional)	✓	✓	✓
LCD front panel (optional)	✓	✓	✓

Robotic and Automatic Welding

Communications Protocols with Industrial Robots

Model	Communications Protocols with Industrial Robots										TAST
	Analog	DeviceNet	EtherNet/IP	EtherCAT	ProfiNet	CANOpen	MEGMEET CAN	80-400V	54V	5V	
Ehave2	○	○	*	*	*	○	○	●	●	●	
Artsen II CM / PM	○	○	○	○	○	○	○	●	●	●	
Artsen Plus / Pro	○	○	○	○	○	○	○	●	●	●	
Dex DM / PM	○	○	○	○	○	○	○	●	●	●	
Dex2 Series	○	○	*	*	*	○	○	●	●	●	

● Standard ○ Optional * Customized

- For 7 consecutive years since 2014, MEGMEET have been the market leader with the highest share of GMAW (MIG/MAG/CO₂) equipment for robotic arc welding in China, the biggest single-country market in the world.
- Capable to communicate with industrial robot and cobot by almost all international or regional manufacturers. Convenient to select robot type thru one click in the internal menu.
- Multiple baud rate built-in, capable of communicating with multiple third-party devices simultaneously.
- 54V for touch sensing, allowing better performance with workpieces with rust, dirt and oily surface.
- Perfectly support TAST (Thru-arc Seam Tracking) function by robots by different manufacturers. Especially suitable for robotic welding of thick plates.
- High speed inter-communication of welding parameters with robot controller. Highly open with parameter adjustments.
- Supporting push-pull torch for robotic welding. Capable of synchronizing motor torque and speed between the push-pull torch and wire-feeder without extra devices. Capable of driving push-pull torch directly. [1]
- Relay wire-feeder of synchronization optionally available for wire barrels, especially suitable for welding conditions with long wire conduits. [2]

[1] : Artsen series and Artsen Plus series supports robotic push-pull torch.
 [2] : The relay wire-feeder is only optional for Artsen Plus / Pro series.

Smart Design and Rich Experience in Robotic Arc Welding

• ABB



• Cobot



• FANUC



• KUKA



• YASKAWA



• KAWASAKI



• COMAU



EtherNet/IP

PROFI
NET

EtherCAT®

DeviceNet™

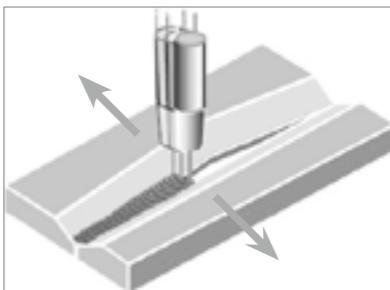
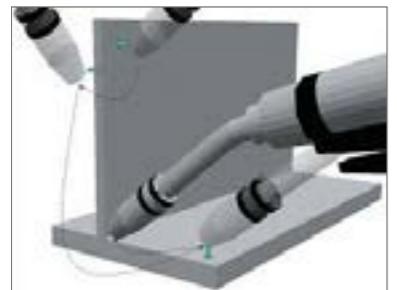
CANopen

MEGMEET CAN

Analog

Functions of Robot Arc Welding

- Touch sensing with high voltage (54V)
- Thru-Arc Seam Tracking (TAST)
- Multi-layer and multi-pass welding

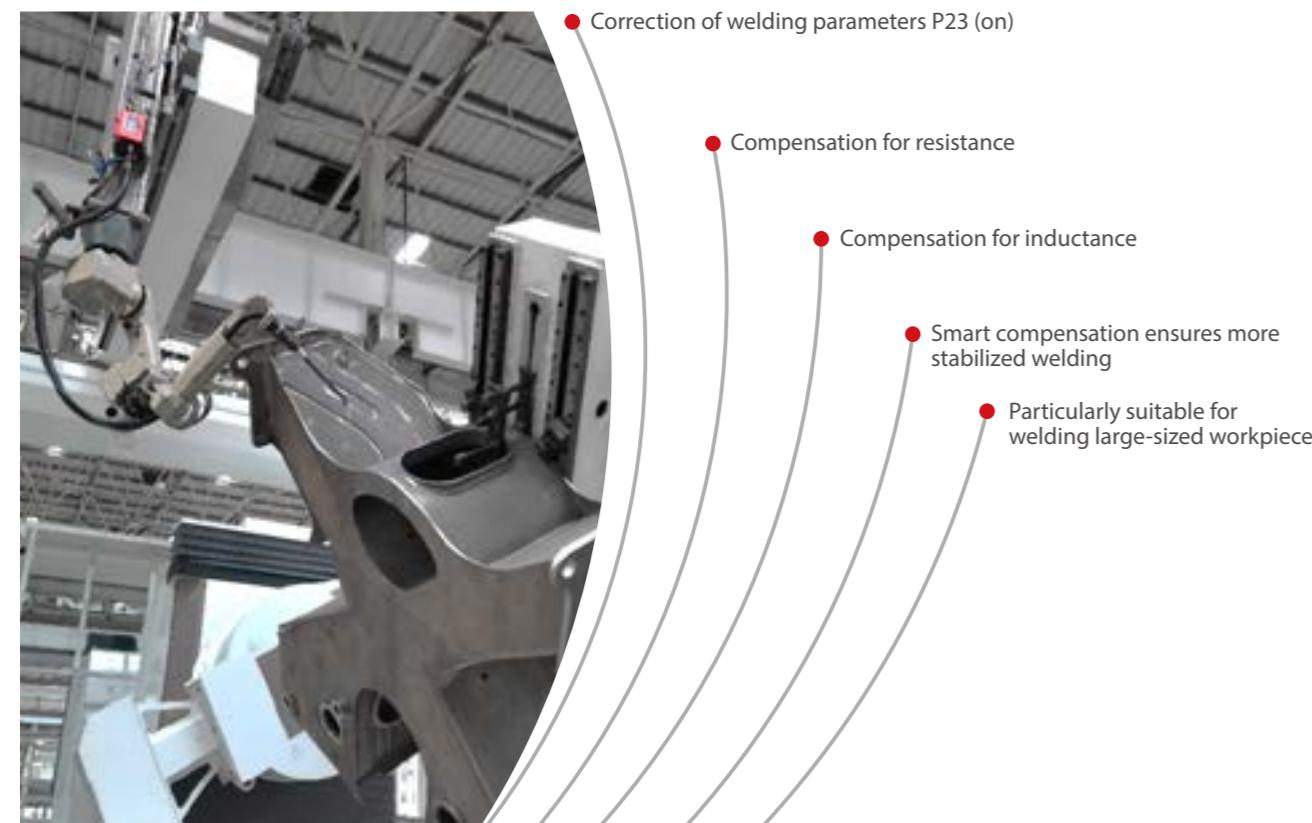


Instant Switch between Welding Jobs

Only one arc ignition is needed to achieve rapid switch between different welding jobs. All happens within 0.08 seconds. Welding spatter and possible defects caused by new ignition are avoided. It is particularly suitable for robotic welding under complex conditions



Smart Compensation for Extra Long Cables



Display of Wire-feeding Resistance

The machine panel can display the "wire feeding resistance coefficient" to remind customers to check if the wire-feeding system is smooth enough so as not to affect the welding quality



Euro-connector
(standard)**Features:**

- Buttons available for fast operation of wire-feeding, wire withdrawing, and gas check for Artsen Plus / Pro
- Switching between mechanisms of encoder feedback and "Opposing electromotance feedback"
- Supporting push-pull torch

Japanese-connector
(Optional)**Robotic Wire-feeders****Specification of Robotic Wire-feeders**

Model	Euro Connector	Japanese-type Connector	Weight (kg)	Water-cool	Dimension (L / W / H) mm
Artsen II CM/PM Series	Standard	Optional	6.8	Standard	303*170*205
Artsen Plus / Pro Series	Standard	Optional	6	Standard	230*170*170
Ehave2 Series	Standard	Optional	7.4	Optional	248*161*221
Dex DM/PMSeries	Standard	Optional	6	Optional	230*170*170
Dex2 Series	Standard	Optional	7	Optional	230*152*221

Remote Controller**Features:**

- Supporting welding automation, convenient adjustment of welding parameters at real-time Synergic control
- Control cable length up to 25m
- * Only optional for Artsen Plus / Pro series



Cooling-unit

Specification

AnyCool-100

For Artsen II CM/PM series, and Artsen Plus / Pro series



AnyCool-68

For Dex PM3000 / PM3000 Q / PM3000 S / PM3000 QS / PM3000 R



AnyCool-66

For Dex2 series, Meta TIG series, Ehave2 series



Water cooler AnyCool-100

Water cooler AnyCool-100	
Power Supply	By welding power source
Rated Power	260W
Rated Voltage	380V-400V AC
Volume of Cooling Water	10L
Flow Speed	3.5L/min
Max Pump Head	26m
Flow Alarm	Yes

Water cooler AnyCool-68

Water cooler AnyCool-68	
Power Supply	By welding power source
Rated Power	260W
Rated Voltage	380V-400V AC
Volume of Cooling Water	6.8L
Flow Speed	3.5L/min
Max Pump Head	20m
Flow Alarm	Yes

Water cooler AnyCool-66

Water cooler AnyCool-66	
Power Supply	By welding power source
Rated Power	370W
Rated Voltage	380V AC
Volume of Cooling Water	6.8L
Flow Speed	3.5L/min
Max Pump Head	20m
Flow Alarm	Yes

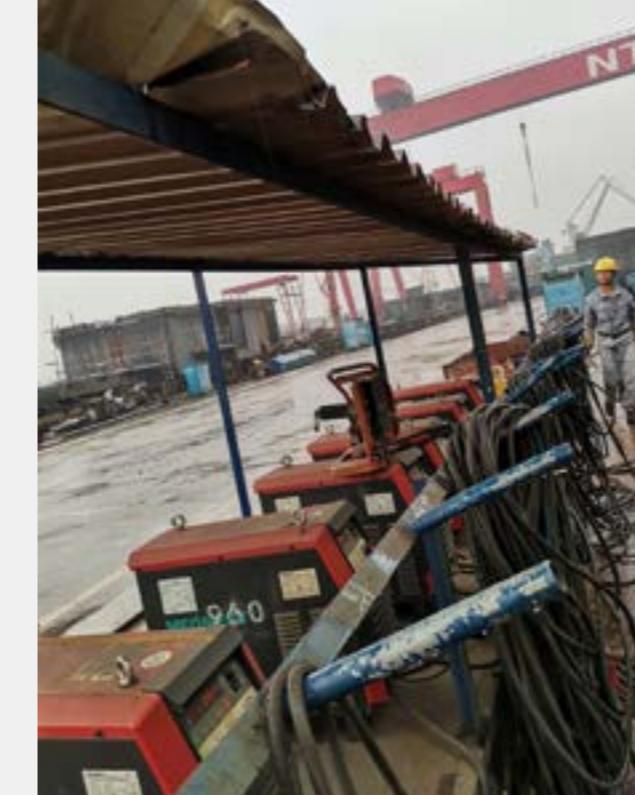
Powering the Future



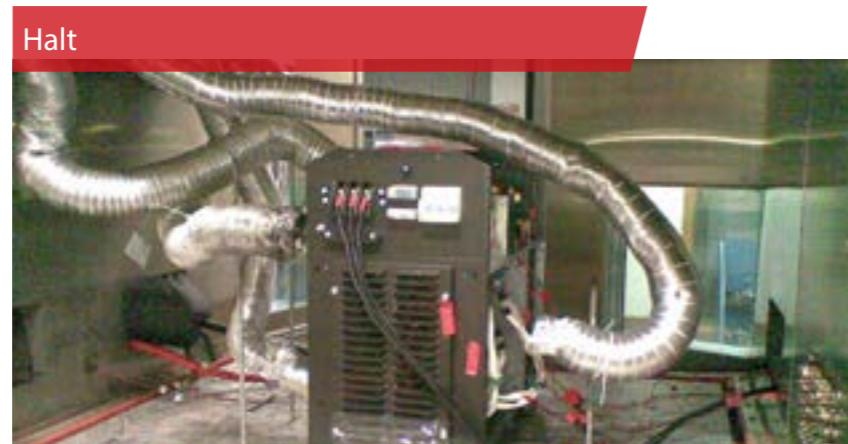
Reliability

Re-defining reliability and stability of inverter welding machines.

Firm and strong like a rock, even being used at outdoors or under tough conditions



Quality



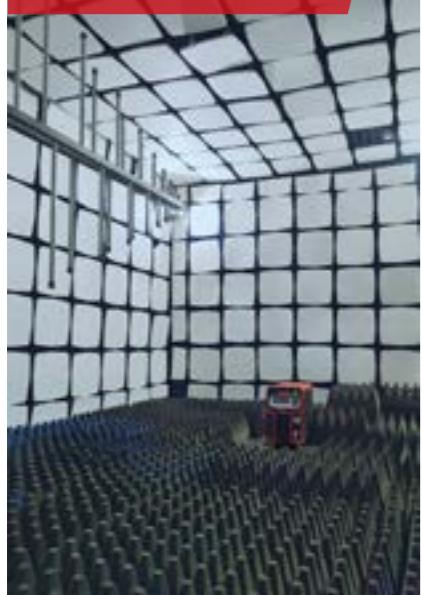
HALT

All the imaginable harsh conditions are added on testing the welding machine at the same time. The severity levels are gradually increased, until the welding machine break down. After that, the short-board analysis is performed, and the design is continuously optimized. The process was performed again and again. Test conditions include, but not limited to, full load operation, vibration, high temperature, high humidity, ultra-low temperature, salt spray, conductive dust, power surge, voltage drop, ESD, EFT, etc. The designed product lifetime of the welding power source reaches 10 years after HALT test. It is the highest for arc welding equipment of inverter technologies.

Lightning Protection Test



EMC Test



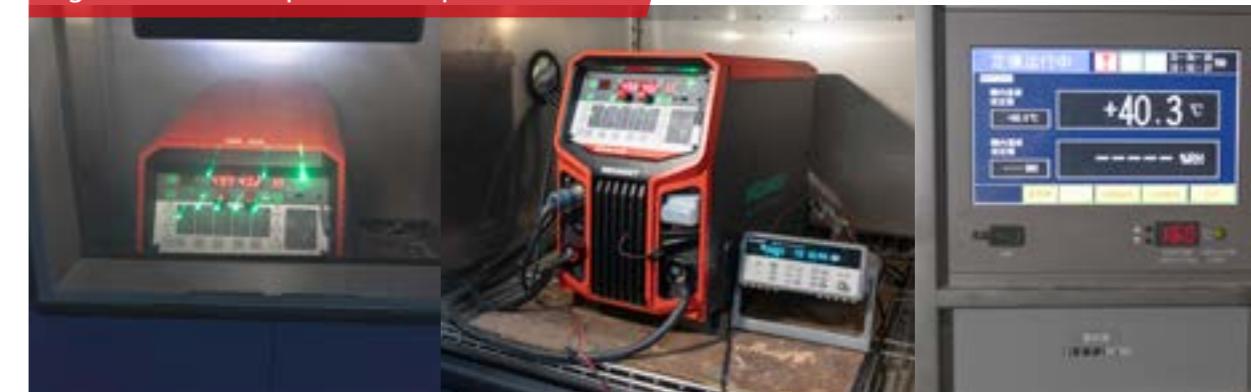
Passing EMC Test ensures welding power source not to interfere with other equipment nearby, or to be interfered. It is especially suitable for complex robot welding production line and other intelligent factories.

Conductive Dust Test



Iron powder and graphite powder floating in the air are used as test conditions to ensure that the welding machines are highly reliable under similar harsh working conditions.

High and Low Temperature Impact Test



For the purpose of ensuring MEGMEET products' performance at indoor and outdoor in different countries, this test verifies the stability and reliability of the welding machines' output parameters under high and low working temperatures.

Salt Spray Test



The Salt Spray Test can test the corrosion resistance of the welding machine. Passing this test, the welding machine can be more suitable for the high salinity and high humidity environment such as in the ship-building and marine engineering industries.

Water Spray Test



Make sure that the welding machine can work reliably under the raining situation

Mechanical Vibration



These tests examines the robustness of the whole structure, packaging its components, as well as the workmanship of final assembly. It ensures quality and performance after transportsations and falls

Multi-angle Free-fall Test



Consistency

Consistent performance by any machine, anytime, anywhere



Power	100	200	300	400	500	600	700
Current (A)	173.96	177.98	188.84	179.14	173.95	176.15	173.86
Real Output Voltage	19.97	19.93	4.95	5.92	1	1	1.92
Output Voltage Deviation	-0.02	-0.09	-0.93	0.01	0.01	0.01	0.01
Unplanned Voltage Deviation	0.0200	0.0100	0.0200	0.1200	0.1000	0.1200	0.0400

Power	100	200	300	400	500	600	700
Current (A)	197.17	196.96	198.19	196.77	196.96	196.62	197.17
Real Output Voltage	19.95	19.92	19.75	19.93	19.95	19.92	19.92
Output Voltage Deviation	0.01	0.02	0.01	0.01	0.01	0.02	0.01
Unplanned Voltage Deviation	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Power	100	200	300	400	500	600	700
Current (A)	196.43	196.77	196.79	196.61	196.43	196.77	196.79
Real Output Voltage	19.95	19.92	19.87	19.93	19.95	19.92	19.92
Output Voltage Deviation	0.01	0.02	0.01	0.01	0.01	0.02	0.01
Unplanned Voltage Deviation	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Power	100	200	300	400	500	600	700
Current (A)	191.96	194.97	191.79	191.96	191.96	191.96	191.96
Real Output Voltage	19.95	19.92	19.73	19.93	19.95	19.92	19.92
Output Voltage Deviation	0.01	0.02	0.01	0.01	0.01	0.02	0.01
Unplanned Voltage Deviation	0.00	0.00	0.00	0.00	0.00	0.00	0.00

- Thanks to the design of high-frequency inverter and excellent full digital control, the dependency on the accuracy of hardware parameters are largely lowered. Consistent performance of each welding power source is therefore ensured even under large fluctuation of input power network
- By using components of low temperature drift and high accuracy, the output performance are kept consistently from turning-on to long-time operation, and from -10°C to +50°C working temperature
- Multiple compensations and automatic adjustments are designed for components in the sampling and control section, which ensures the consistency of each machine performance.

Stability and Reliability

Stability is the cornerstone of intelligent welding machine



Stable as Always

Through leading power electronics and software technology, high-frequency digital sampling, and circuit correction, it's as stable as a new welding machine, whether it's a year, five years, or ten years

Intelligent Adjustment

The stick-out length is changeable when the welding arc reaches a different position. By using the unique technology of compensation on macroscopic welding voltage, MEGMEET power source is able to prevent arc voltage from decreasing and of constant arc-length control, MEGMEET power source can ensure the stability of molten pool and welding arc.

Smart Compensation

By adopting the technology of compensation on macroscopic welding voltage, MEGMEET power source is able to prevent arc voltage from decreasing and of constant arc-length control, MEGMEET power source can ensure the stability of molten pool and welding arc.

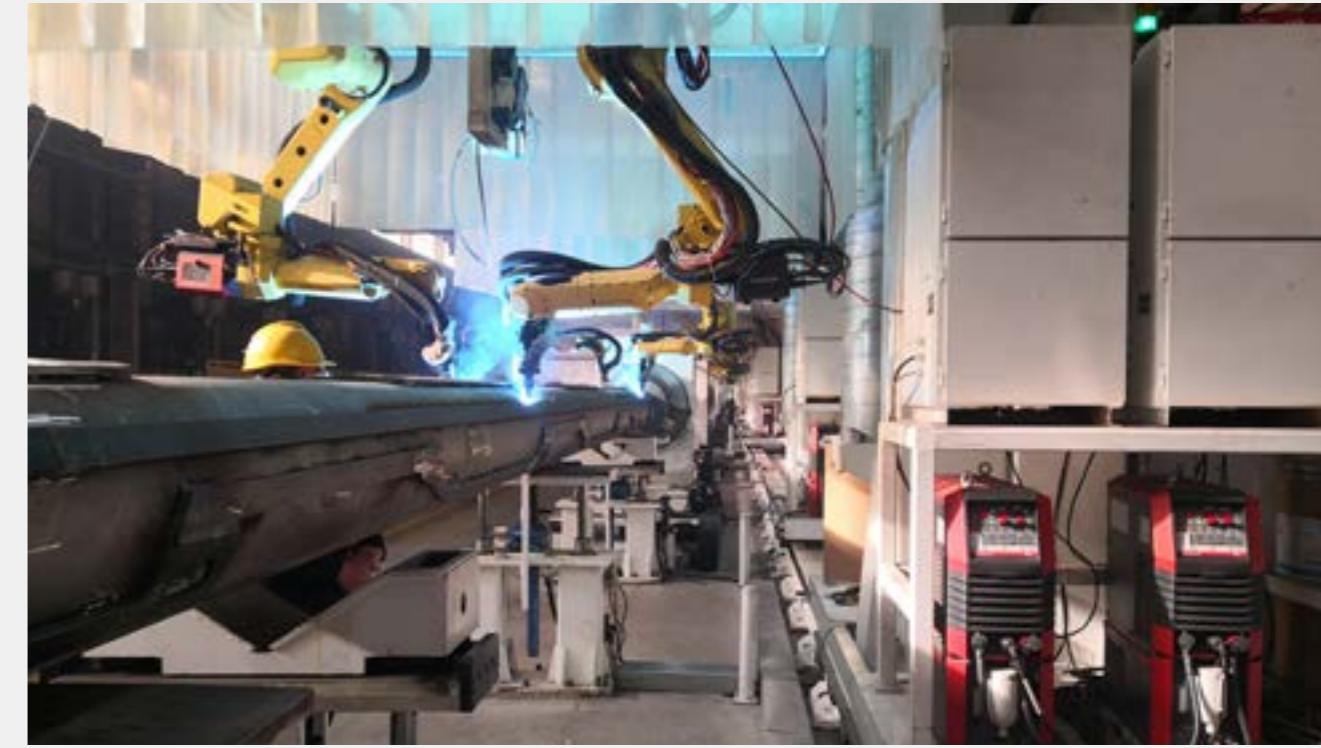
“

For over 10 years, we have been devoted to researching the basic disciplines of arc welding and welding engineering application technology. Today, we are highly recognized by the industry. This is due to MEGMEET's strong multidisciplinary technical team, corporate R&D platform and the spirit of innovation. We firmly believe that we can help our customers overcome their challenges in the welding production process, and ensure that customers can focus on their core business other than welding, so that they will stand out.

”

Applications and Cases

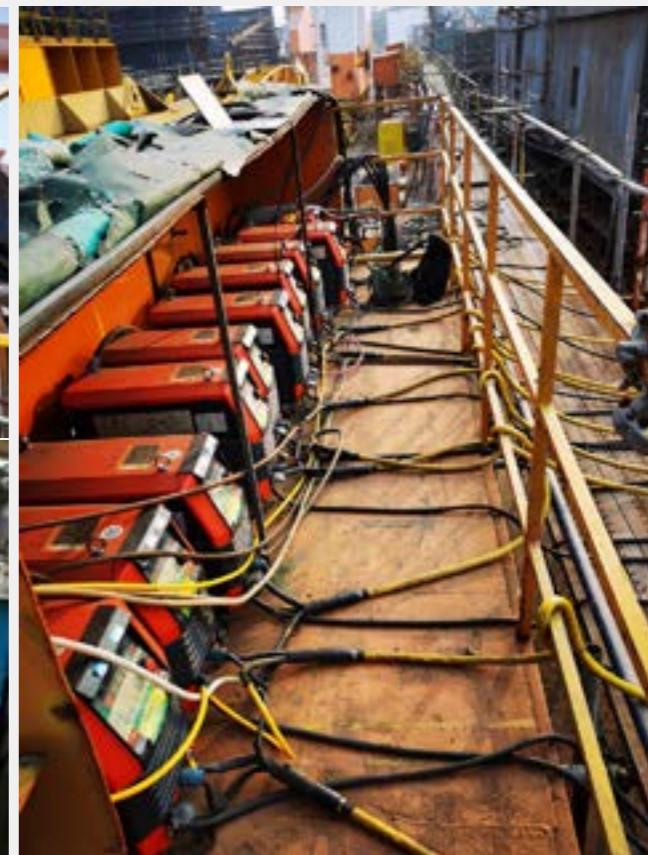
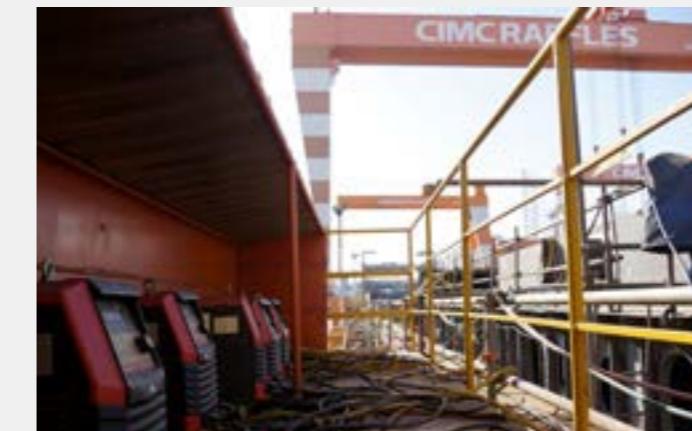
Construction Machinery



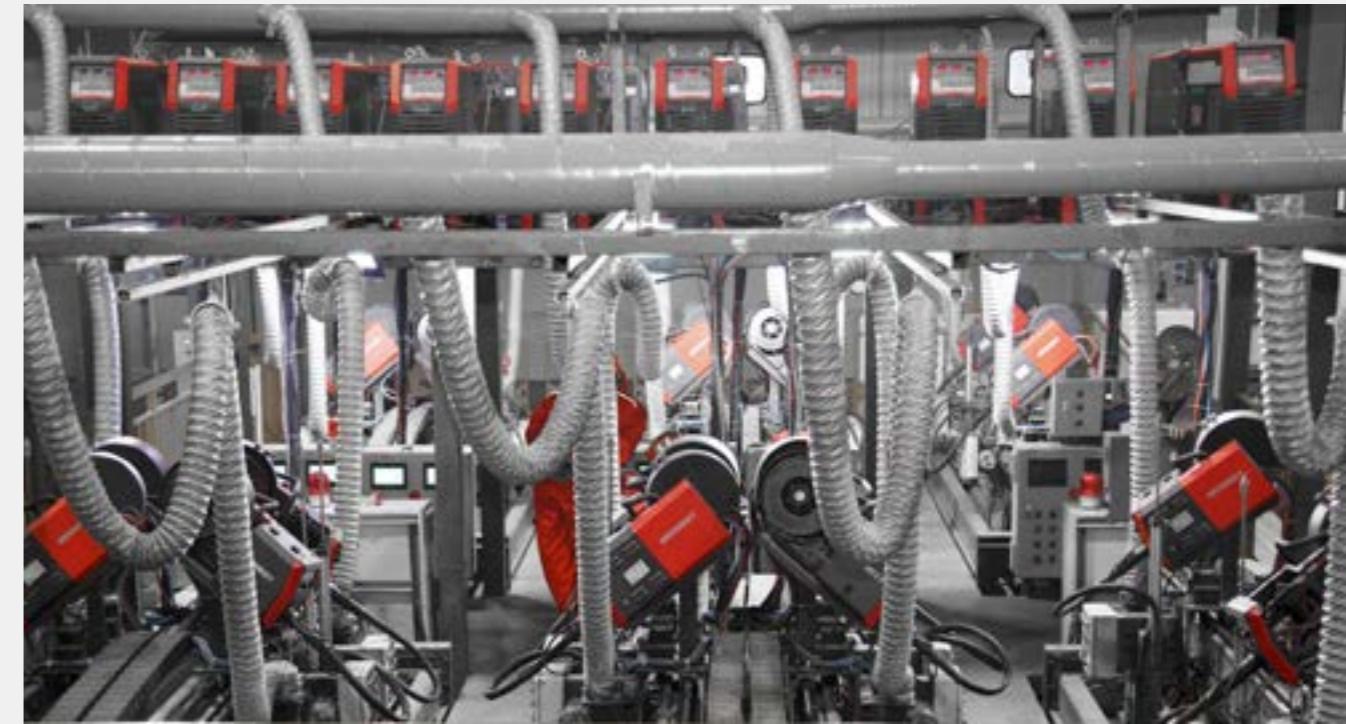
Mining Machinery



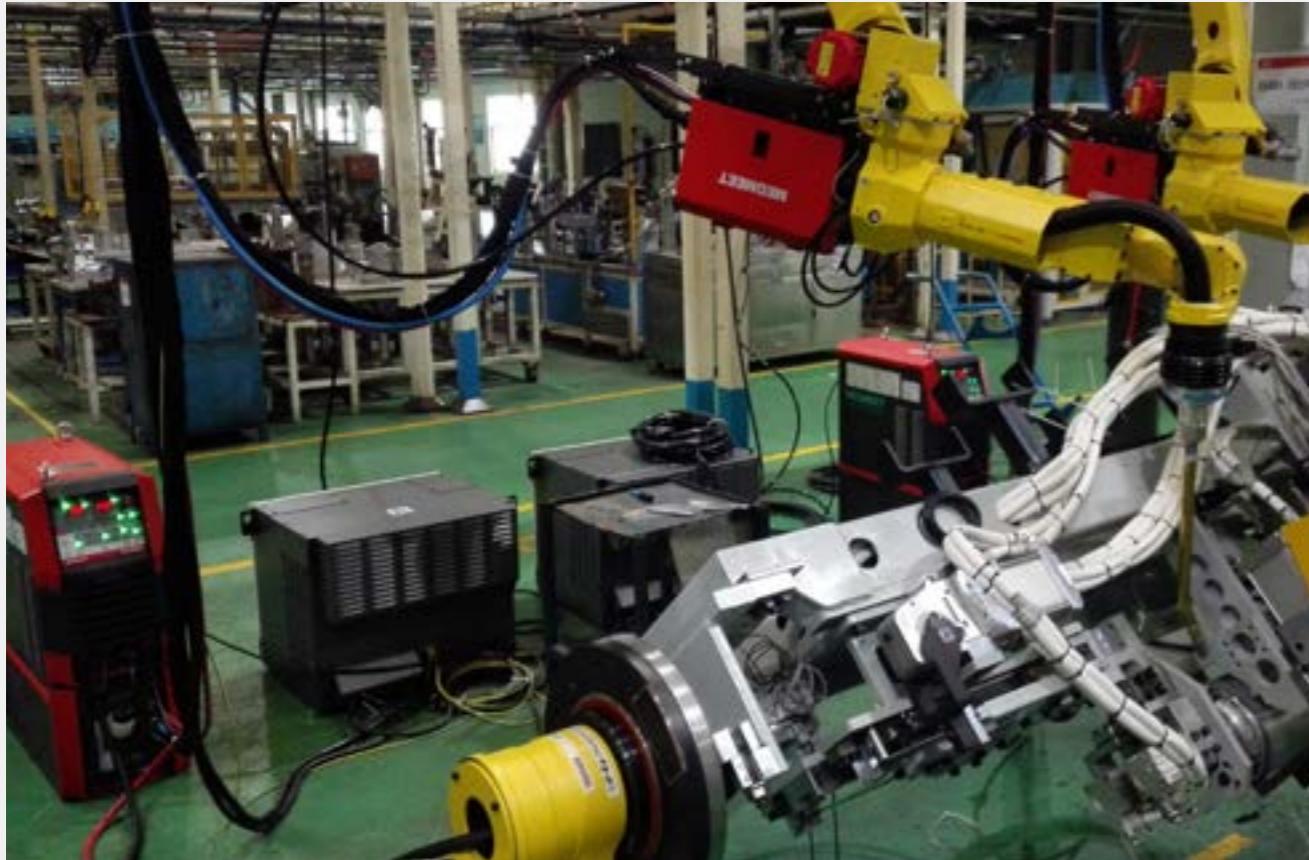
Ship-building & Marine Engineering



Shipping Container

CIMC **Fuwa** **COSCO SHIPPING** **xhc**

Automotive



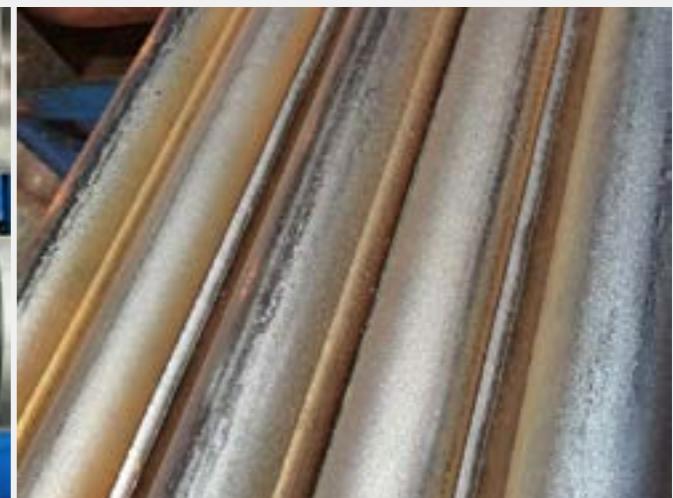
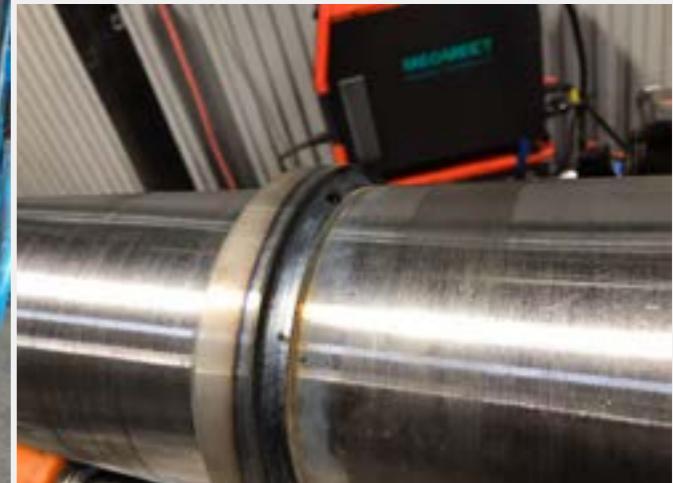
Construction



Commercial Vehicles



Vessels and Tanks



Railway

CRRC RTTE





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MEGMEET's strong technical strength, extensive industry application experience, relentless attention to customer needs, and the spirit of continuous innovation enable us to bring tailor-made products and solutions to help customers achieve greater success.

*MEGMEET Welding Technology Co., Ltd is continuously striving to develop and innovate for new product. We reserves the right of changing the technical specifications and designs without notices in advance.
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