

MEGMEET
WELDING TECHNOLOGY

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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.

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Dex2 M Series

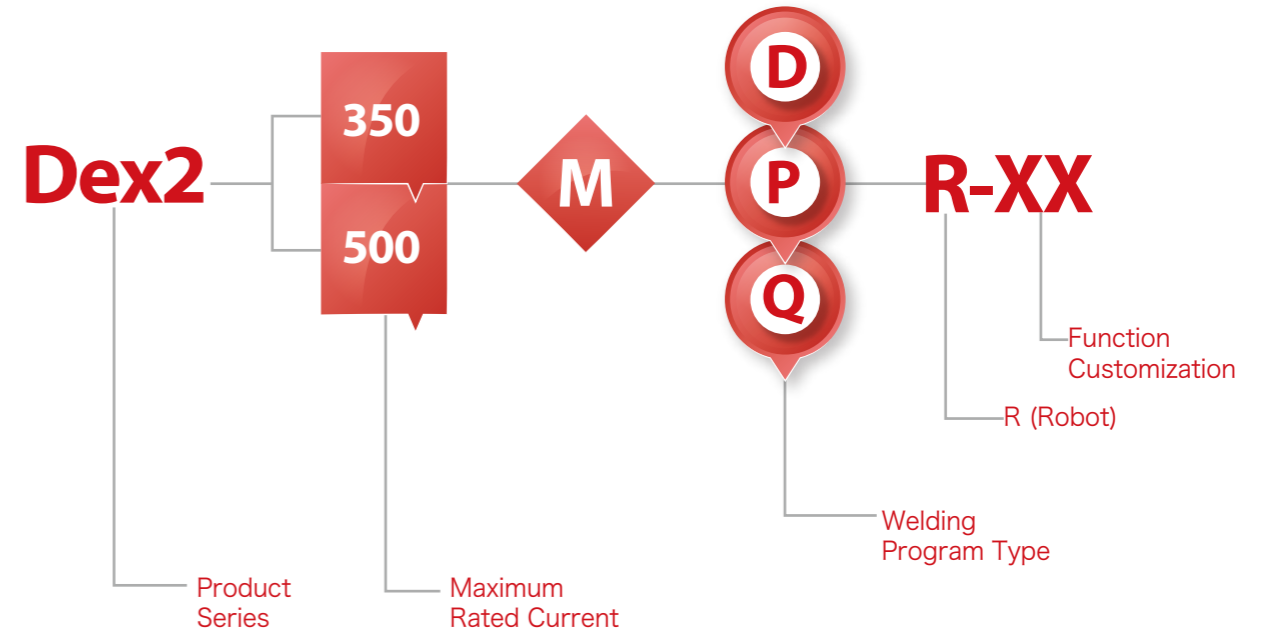
Full Digital IGBT Inverter Multi-functional
MIG Welding Machine

www.megmeet-welding.com

Dex2 M Series

Full Digital IGBT Inverter Multi-functional MIG Welding Machine

DC 380 40~70 Hz CV 110 kHz
3PH



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.



Dex2
500MD/350MD

- LSA(Low Spatter Arc) CO₂/MAG
- Pulse MAG/MIG Quick Pulse MAG/MIG
- Flux Core Carbon Steel/DC
- Stainless Steel Aluminum Alloy
- U-disk Interface IOT Interface
- Other Customization

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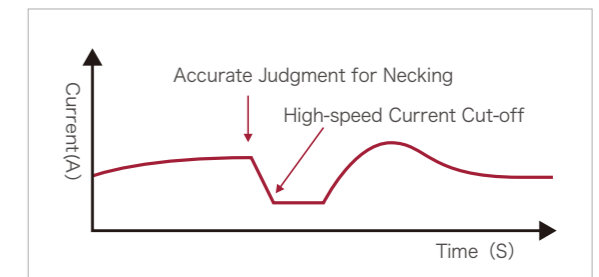
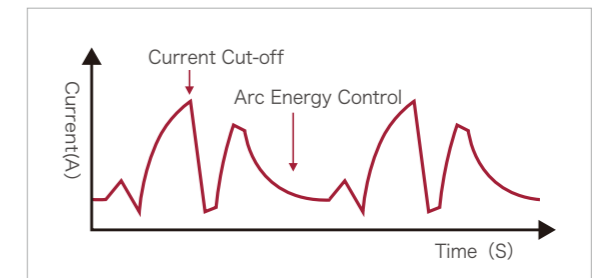
Standard N/A Customization

 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.

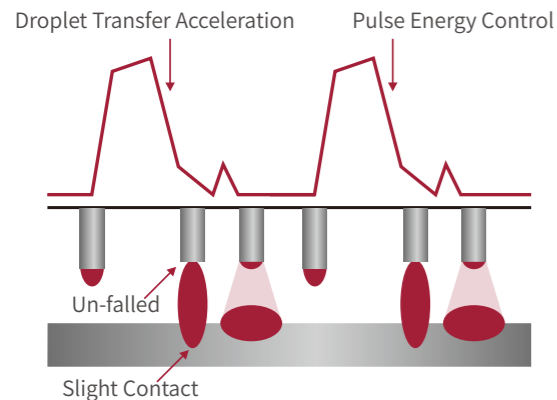
Pain Points in Conventional Pulse Welding

- 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

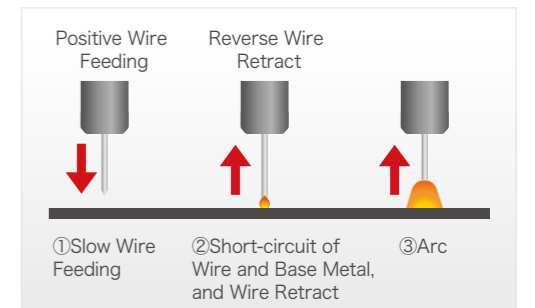
High Speed DC Welding

- 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



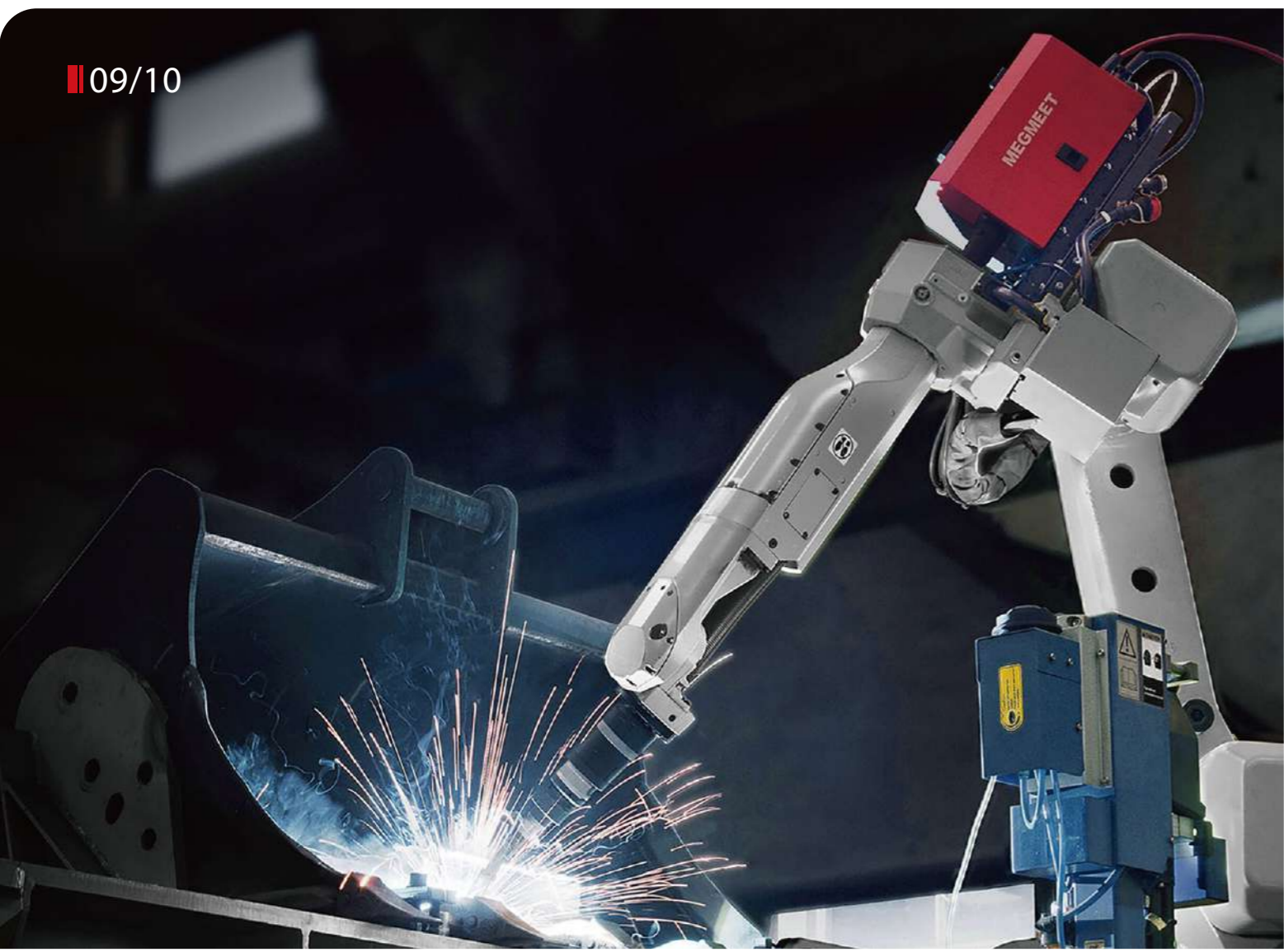
Strong environmental adaptability, suitable for working under tough environment;



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



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





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



Embedded-Type communication module supports multiple types of communication protocols

