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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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Dex2 L Series

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

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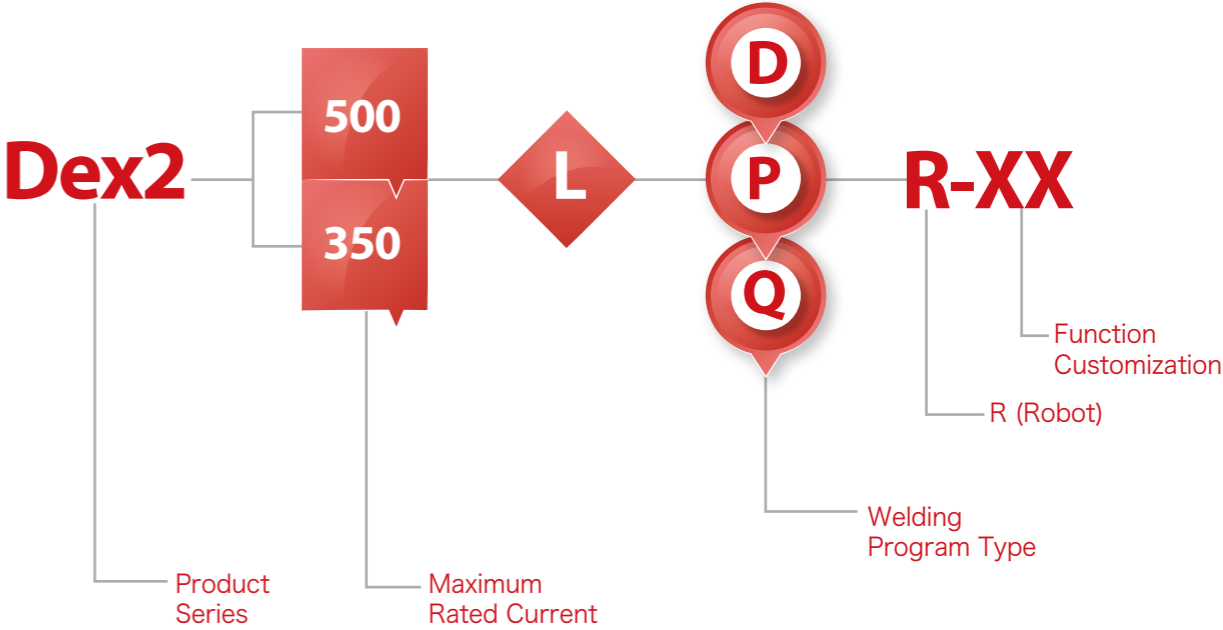
DC

380
3PH

40~70
Hz

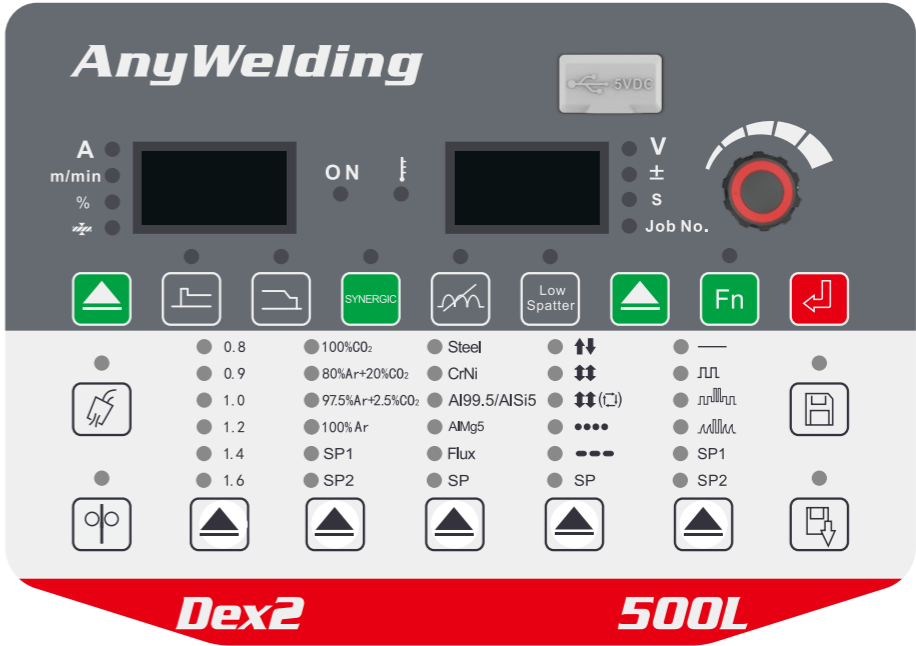
CV

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
500LD/350LD

- | | |
|--|--|
| <input checked="" type="checkbox"/> Super-low Spatter CO ₂ /MAG | |
| <input type="checkbox"/> Pulse MIG/MAG | <input type="checkbox"/> Quick Pulse MIG/MAG |
| <input checked="" type="checkbox"/> Carbon Steel | <input checked="" type="checkbox"/> Stainless Steel |
| <input type="checkbox"/> Aluminum Alloy | <input checked="" type="checkbox"/> U-disk Interface |
| <input type="checkbox"/> IOT Interface | <input type="checkbox"/> Other Customization |

Dex2
500LP/350LP

- | | |
|--|---|
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| <input checked="" type="checkbox"/> Pulse MIG/MAG | <input checked="" type="checkbox"/> Quick Pulse MIG/MAG |
| <input checked="" type="checkbox"/> Carbon Steel | <input checked="" type="checkbox"/> Stainless Steel |
| <input type="checkbox"/> Aluminum Alloy | <input checked="" type="checkbox"/> U-disk Interface |
| <input type="checkbox"/> IOT Interface | <input type="checkbox"/> Other Customization |

Dex2
500LQ/350LQ

- | | |
|--|---|
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| <input checked="" type="checkbox"/> Pulse MIG/MAG | <input checked="" type="checkbox"/> Quick Pulse MIG/MAG |
| <input checked="" type="checkbox"/> Carbon Steel | <input checked="" type="checkbox"/> Stainless Steel |
| <input checked="" type="checkbox"/> Aluminum Alloy | <input checked="" type="checkbox"/> U-disk Interface |
| <input type="checkbox"/> IOT Interface | <input type="checkbox"/> Other Customization |



☒ Standard ☐ N/A ☐ Customization

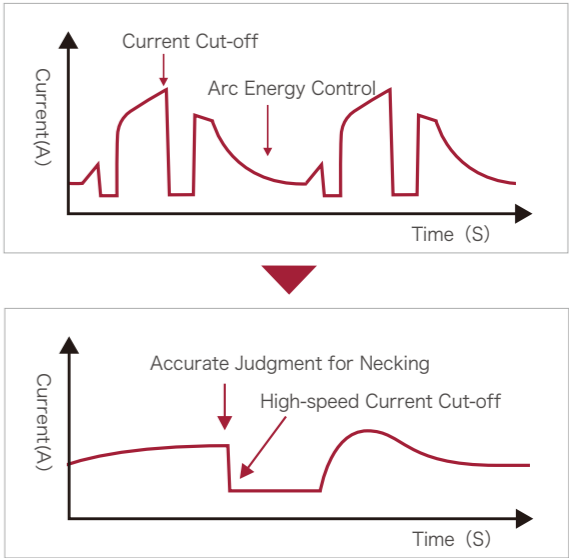
 Super-low Spatter Technology

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, Φ1.2mm wire. Low spatter current range can reach 210A, 20% higher than other similar welding machines.



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.

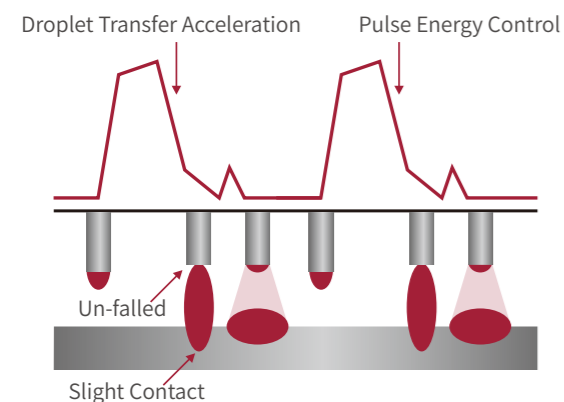
Pain Points in Conventional Pulse Welding

- 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.

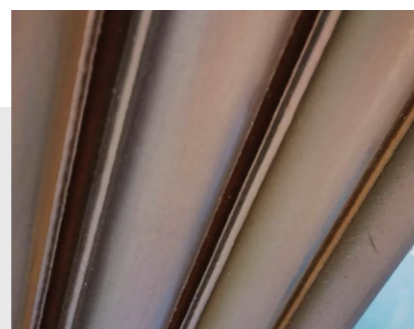
VS

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.



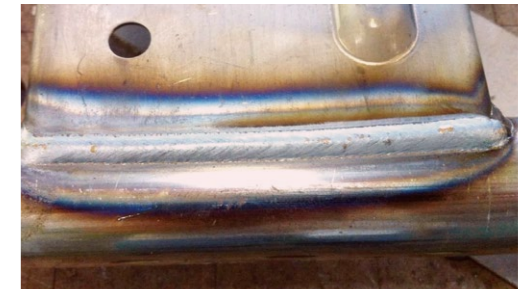
Construction Machinery



Boiler Membrane Wall

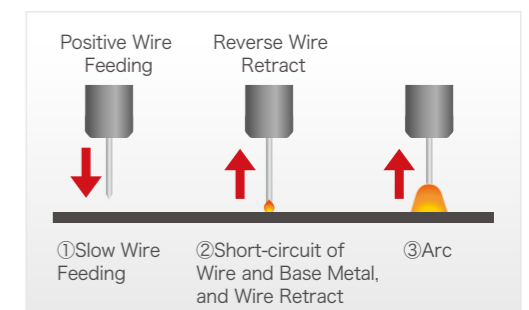
High Speed DC Welding

- 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).



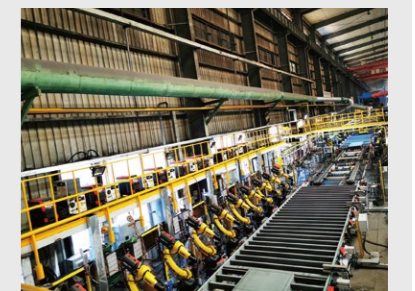
High Reliability



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, our quality is consistent anytime and anywhere!

Dex2 Series 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

	Model Name	Wire feeding drive control mode	Dimensions (L×W×H)	Welding Torch Interface	Weight	
Non Push-pull Application	WF1-50ZE	Worm Gear	230×170×170mm	European type	6kg	
	WF1-50ZER	Worm Gear	230×170×170mm	Asian type	6kg	
	WF1-50PW-7	Worm Gear	223×152×221mm	European type	7kg	
	WF1-50PWR-7	Worm Gear	223×152×221mm	Asian type	7kg	
Push-pull Application	WF1-50PW-T7	Worm Gear	277×191×223mm	European type	8kg	

Manual Wire Feeder Selection

	Push-pull Application	Non Push-pull Application		
	Enclosed wire feeder	Enclosed wire feeder	Open wire feeder	
				
Model Name	WF22-50PW-T7	WF22-50PW-D7D	WF2-50PW-D7D	WF2-50PWR-MD-7
V/A LED display	Yes	Yes	Yes	N/A
Wire feeding drive control mode	Code disc control Back electromotive force	Back electromotive force	Back electromotive force	Back electromotive force
Wire feeder rated voltage	24V	24V	24V	24V
Wire feeding speed	0.5~28m/min	0.5~28m/min	0.5~28m/min	0.5~28m/min
Wire feeding roller diameter	φ0.8~1.6mm	φ0.8~1.6mm	φ0.8~1.6mm	φ0.8~1.6mm
Wire spool type	Standard wire spool	Standard wire spool	Standard wire spool	Standard wire spool
Drive unit	Double drive four rollers	Double drive four rollers	Double drive four rollers	Double drive four rollers
Wire feeder torch interface	European interface	European interface	Asian interface	Asian interface
Dimension (L×W×H)	680×300×400mm	680×300×400mm	500×215×357mm	500×215×357mm
Weight	19kg	19kg	9kg	9kg



Embedded-Type communication module supports multiple types of communication protocols

