

# RDT Cold Transfer High-speed Servo Welding Technology

RDT: **R**etract **D**roplet **T**ransfer

## Product Features

- High-speed dynamic retraction of wire with frequency up to 200Hz;
- Ultra-low spatter patent technology to achieve 99% reduction in spatter;
- Patent technology for droplet necking pre-judgement and control;
- LCD display and touch screen control could bring better experience of human-computer interaction;
- IOT interface is reserved to access into Megmeet SMARC welding management system;
- U-disk interface can support easy upgrade with Megmeet new programs or customized processes;
- Adaptive to global grid.



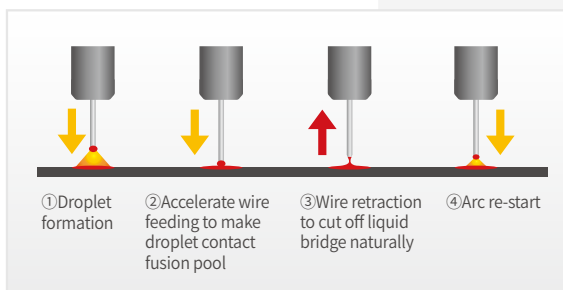
## Technical Advantages

### Zero-spatter Welding

Compared with conventional pulse transition and DC short-circuit transition, spatter is reduced by 99%, and workload of post-weld grinding is small;

### Whole-process Wire Retraction to Prevent Spatter

Restrain liquid bridge bursting and control spatter



### Superior Bridging Ability of Large-gap and Uneven Gap

Gap tolerance of 2mm aluminum alloy sheet can reach up to 2.5mm.

### Minimal Welding Deformation

Low heat input, minimal welding deformation and less post-weld shaping work

### Comprehensive Welding Programs

RDT, AC-RDT, short-arc pulse, high-speed intermittent welding, DP speed-up welding, single-machine&double-wire synergy, and multi-machine & multi-wire & multi-arc synergy.

### Suited to Diversified Materials

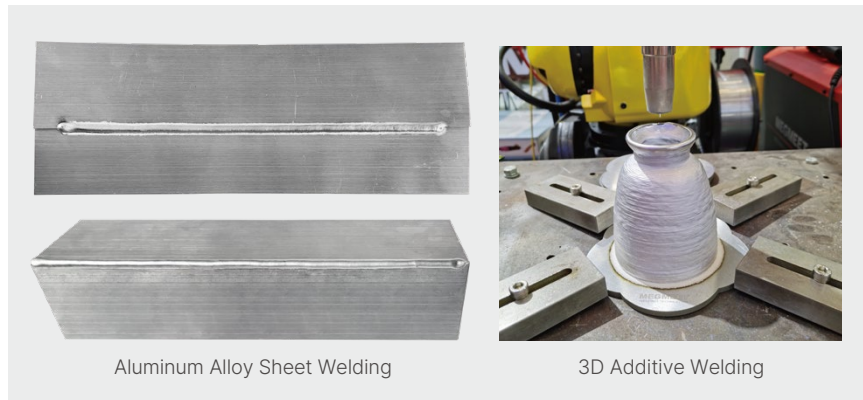
Carbon steel, stainless steel, high-strength steel, nickel-based alloy, aluminum alloy, magnesium alloy, titanium alloy and others, and also weldable for dissimilar materials.

## Ultra-thin Plate Welding

Be capable to weld ultra-thin plates of 0.3mm and medium-thin plates within 3mm with good forming, small deformation and less post-weld workload, also suitable for high-quality welding of high-strength steel and ultra-thin aluminum plates.

## Low Heat Input

Low heat input is applicable in quick 3D additive welding with high efficiency and beautiful forming.



Aluminum Alloy Sheet Welding

3D Additive Welding

## Specification

● Standard ○ Optional

Series&Model	Artsen Max	Artsen Mate
Function		
U-Disk interface	●	●
Push-pull torch interface	●	●
Sychro-feed wire Feeder	○	○
SMARC interface	●	●
Wire feeder A/V LCD display (manual type)	○	○
Technical Parameters		
Input voltage	200VAC~600VAC	200VAC~600VAC
Input frequency	45~65Hz	45~65Hz
Input capacity	29.8KVA	18KVA
Input power factor	0.95	0.95
Efficiency	89%	83%
Rated no-load voltage	80V	80V
Rated output current	630A	400A
Given current range	30~630A	30~400A
Given voltage range	10V~45V	10V~45V
Rated duty cycle 40°C	60%	60%
Electromagnetic compatibility	EN 60974-10: 2014	EN 60974-10: 2014
Lightning protection level	Class D (6000V/3000A)	Class D (6000V/3000A)
Insulation class	H	H
Protection degree	IP23S	IP23S
Main machine environment	-39°C~ +40°C	-39°C~ +40°C
Dimensions (L*W*H)	715*328*560mm	715*328*560mm
Weight	50kg	50kg

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