

**SHENZHEN JASIC TECHNOLOGY CO., LTD.**

Address: No. 3, Qinglan 1<sup>st</sup> Road, Pingshan District, Shenzhen, Guangdong, China

Postcode: 518118


Tel: +86 (0755) 8670 6250


Fax: +86 (0755) 2736 4108

Website: www.jasitech.com

E-mail: sales@jasitech.com

 @JASICTechOfficial

 JASIC Technology Co., Ltd.

 @jasitech\_official



# EVOLVE

A New Era in Digital Welding

Powered by



On Demand Processes & Functions



Modular Hardware Platform



JTECloud App:



Advance  
ARM Cortex  
Microprocessors



Silicone  
Carbide  
IGBT



Inverter  
Frequency  
Modulation



Fully  
Synergic



Full Digital  
PFC



Glick  
Function



100 Job  
Memory Slots



Digital  
Control 4 Roll  
Wire Feeder



OTA  
Firmware  
Updates



EVOLVE  
Digital Smart  
Torches (Optional)

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## What is EVOLVE?

Today's welding challenges are complex and constantly changing, and welding machines that can update their processes and functions on demand are JASIC's responses to those challenges. This game-changing product range combines the power of advance digital control, modular hardware architecture, and cloud service; it is capable of constantly "EVOLVEing" to be **ready for any weld, anytime, anywhere.**

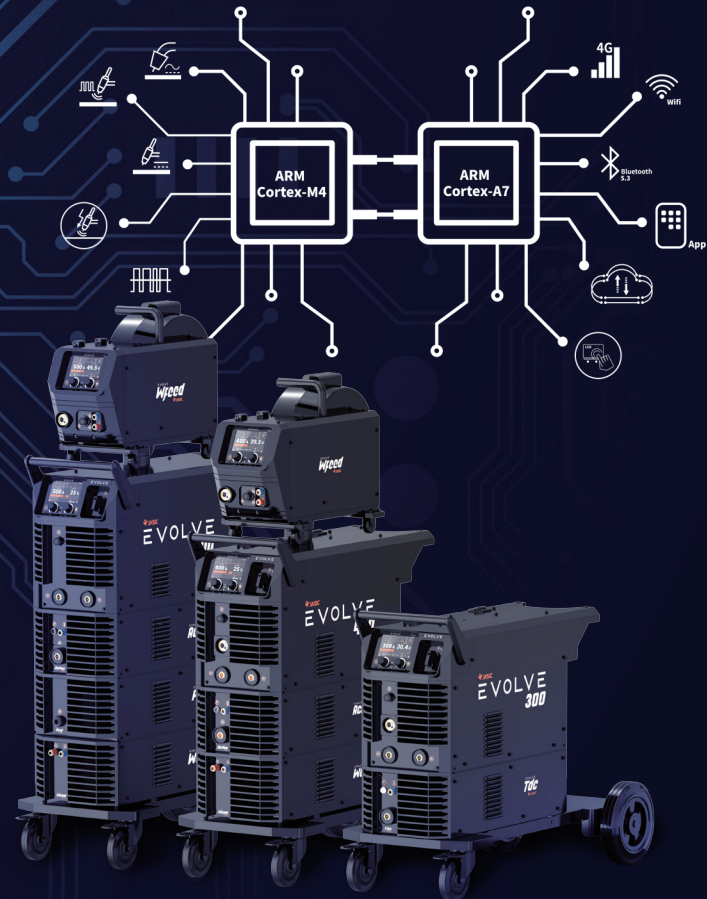


## Full Digital Control Powered by Advance Microprocessors

EVOLVE's ARM Cortex-M4 is the optimal DSP (digital signal processing) microprocessor with floating-point unit (FPU). Its top-notch signals processing capabilities make it ideal for precise waveform control. It also supports advanced welding algorithm which elevates overall welding

In addition, ARM Cortex-A7 is equipped\* to bolster EVOLVE's data processing and IoT capabilities for industrial applications. The M4+A7 duo is the engine that drives EVOLVE's digital poweress.

\*: not applicable to the single phase EVOLVE200+



## Seamless Human Machine Interaction

Having just color touch screen is not enough for effective everyday operation in industrial welding. EVOLVE's full digital control solution enables intuitive and flexible human machine interaction, giving welders seamless user experience unrestricted by jobsite settings.



## EVOLVE Digital Smart Torches (Optional)

These torches are what take the EVOLVE user experience up a notch, as they not only let welders control job parameters right at their fingertips, but also allow for fast and flexible set ups suiting different job site needs. With the most advance interfaces, these torches can display/adjust real-time job parameters during ongoing weld giving welders more precise control over their results.



MIG Torch

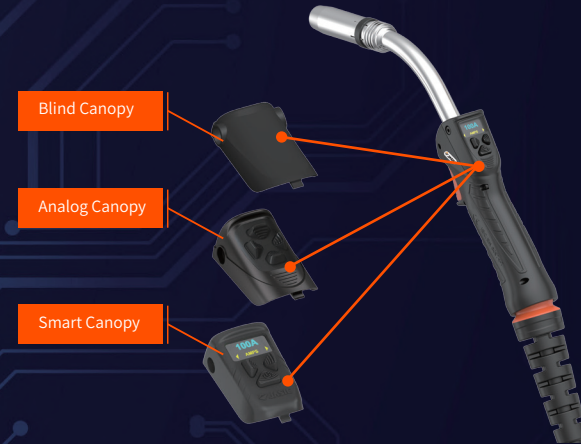
TIG Torch

Push-Pull

Spool-On

## Flexible Torch Interfaces

Users can quickly switch between different interfaces on their EVOLVE digital smart torches without using any tool. The interfaces' plug and play design saves users the hassle of any further calibration, just plug in and ready to go.



## JTECloud App

This mobile app gives users control over all EVOLVE's welding parameter settings right at their fingertips, wirelessly. Users can choose to connect to their machines via Bluetooth or Wifi, and multiple machines can be managed on the same mobile device.

Get the JTECloud App on:



## Game-changing Power Sources for Industrial Welding



EVOLVE power sources bring digital control to the next level with cutting-edge hardware and algorithm. Its advance ARM Cortex microprocessors and carbide silicon(SiC) IGBTs lays the solid foundation for unparalleled precision, performance, sustainability, and stability in industrial welding.

### • Next-Level Precision & Performance

- Harness the power of full digital control for precise and consistent welds, ensuring quality results every time.
- ARM Cortex microprocessor and silicon carbide IGBTs pave the way for unmatched power delivery and stability, enhancing welding outcomes.

### • Industrial-grade Energy Efficiency

- Inverter Frequency Modulation  
Inverter frequency modulation maintains optimal switching frequency for EVOLVE's IGBTs in different output settings, striking the perfect balance between power consumption and performance
- Full Digital PFC (Power Factor Correction)  
Enjoy higher energy efficiency compared to analogue PFC, optimizing power usage and reducing operational costs.

### • Reliability Assured

- The robust hardware and cutting-edge technology guarantee durability, ensuring your welding operations continue seamlessly.



## Hardware On Demand



EVOLVE's modular hardware platform offers great adaptability both in functionality and investment. No need for a complete overhaul in face of changed jobsite requirements, simply stack the needed module onto the existing system, connect it to the power source and ready to go.



## Unlimited Possibilities with JTECloud



The JTECloud reaffirms EVOLVE's aptitude to face modern day welding challenges, giving users comprehensive control over tasks ranging from the customization of individual machine to the operation management of industrial welding workshop.

### • On Demand Processes & Functions



- Tailor your machine's welding process/function setup on the cloud. Explore new processes and functions available for download directly to your machines.

### • Welding Data Management



- Harness the full potential of welding data tracking and analytics through JTECloud, effectively optimizing workshop productivity and curtailing operation costs.

### • Fleet Management

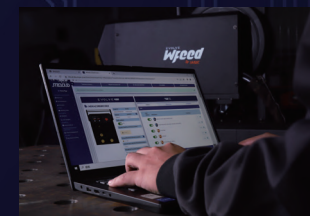


- Effortlessly oversee an entire fleet of cloud-connected welding machines. Monitor performance, deploy updates, and ensure standardized operations with ease.

### • OTA Firmware Update



- Keep your EVOLVE machines current with JTEcloud's firmware update management. Connected machines automatically receive update notifications for the latest versions.



## Optional function modules



### Wire Feeder

Model	EVOLVE W-FEED
Motor power	100W 24VDC
Max current	500A 60% ED
Push pull	Available
Protection class	IP23S

### AC Module



Model	AC/DC module EK-01(P1D03)
Duty cycle	40%
Welding Current	DC: 5A-500A ACDC: 15A-500A
Protection class	IP23S
Power source dimension	842*302*190 mm



Please note: AC MIG only available for EVOLVE500 when both AC module and Wire Feeder are connected to the power source.

### DC Module



Model	DC module EK-02(P1D04)
Duty cycle	40%
Welding Current	5A-500A
Protection class	IP23S
Power source dimension	842*302*190 mm



### CUT Module



Model	EVOLVE 300 PLUS	EVOLVE 400PLUS	EVOLVE 500
Plasma output range	20-50A	20-100	20-120A
Duty I <sub>max</sub>	60% 50A	60% 100A	60% 120A
Duty 100%	38A	77A	92A
Power supply	24V DC	24V DC	24V DC



### Water Cooler Module



Model	EVOLVE W-Cool	
Water cooler	Water cooler capacity	6L
	Pump power	160W 24VDC
	Water flow	2L/min

## Specifications of Power Sources & Torches

### Power Sources

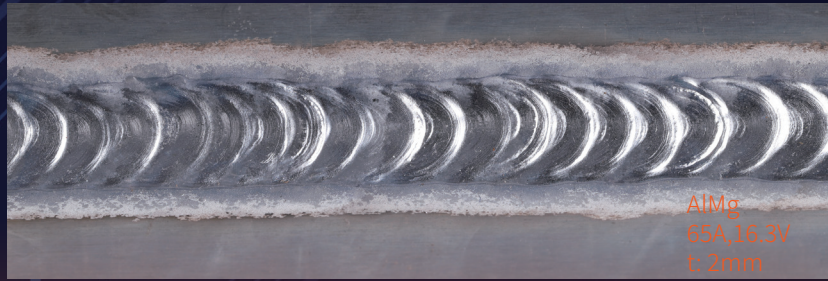
Model	EVOLVE500(N3D1)	EVOLVE400(N3D2)	EVOLVE300(N2D4)
Input power source	380~440VAC 3PH 50/60Hz	230VAC 1PH 50/60Hz, 220~440VAC 3PH 50/60Hz	
Power factor	0.85	0.99	0.99
No load voltage	79(VRD 9V)	70(VRD 9V)	70(VRD 9V)
Duty cycle	60%	60%	60%
Welding	MMA	20A~500A	20A~250A(1PH) 20A~400A(3PH)
	MIG	40A/16V~500A/39V	0A/16V~250A/26.5V(1PH) 40A/16V~400A/34V(3PH)
Protection class	IP23	IP23S	
Power source dimension	842*302*395mm		

### Digital Smart Torches

NO.	Type	Model	Canopy Type	Torch Length	Cooling Method	Rating	Duty Cycle
1	MIG	EV260A	Blind / Analogy / Smart	3m / 4m / 5m	Air	CO2: 270A; mixed gas: 240A	60%
2		EV360A	Blind / Analogy / Smart	3m / 4m / 5m	Air	CO2: 320A; mixed gas: 290A	60%
3		EV501W	Blind / Analogy / Smart	3m / 4m / 5m	Liquid	CO2: 500A; mixed gas: 450A	100%
4		M65WS	Blind / Analogy / Smart	3m / 4m / 5m	Liquid	CO2: 580A; mixed gas: 560A	100%
5	TIG	EVOLVE T3	Smart	4m / 8m	Air	DC: 240A; AC: 170A	35%
6		EVOLVE T4W	Smart	4m / 8m	Liquid	DC: 450A	100%
7						AC: 315A	60%
8	Push-Pull	EVOLVE UGP360A	Smart canopy straight neck 180°	8m	Air	CO2: 300A; mixed gas: 270A	60%
9		EVOLVE UGP401W	Smart canopy straight neck 180°	8m	Liquid	CO2: 400A; mixed gas: 350A	100%
10	Spool	EVOLVE PSLP240A	Euro Ends 5K ohm potentiometer	6m	Air	CO2: 220A; mixed gas: 200A	60%

## Weld Seam Showcase

- Material: AlMg | Welding Current: 65A | Welding Voltage: 16.3V | Sheet Thickness: 2mm



- Material: AlMg | Welding Current: 115A | Welding Voltage: 18.2V | Sheet Thickness: 3mm



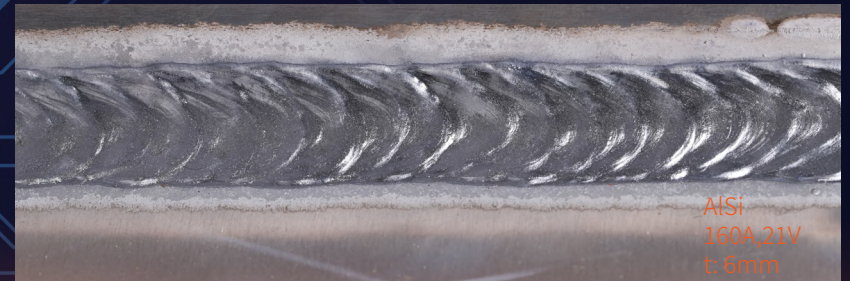
- Material: AlMg | Welding Current: 160A | Welding Voltage: 21V | Sheet Thickness: 5mm



- Material: AlSi | Welding Current: 105A | Welding Voltage: 18.8V | Sheet Thickness: 3mm



- Material: AlSi | Welding Current: 160A | Welding Voltage: 21V | Sheet Thickness: 6mm



**JASIC** | Passionate About Your Welding

