

**SYNTEC LASER
WELDING
CONTROLLER**



Syntec Welding Controller Product Framework

MES



Controller



Extended module



FC controller



HC8S controller



730WA controller

MECHATROLINK-III/EtherCAT



EtherNet/IP, Modbus TCP

Servo



Syntec/Yaskawa/
Panasonic servo driver



Servo/Step motor

Sensor



Vision/Seam tracker

Feature

Interface for Welding Industry

The interface is designed to offer user-friendly experience, based on the application and operation of laser welding industry. With conversation-like interface, one can easily edit a welding program without coding.



Complete Laser Welding Craft

Integrating motion control and laser welding craft, the controller is built for laser welding process. Provide laser power modulation to maintain the quality and ensure that the depth of molten area keeps stable.



Support Extra Development

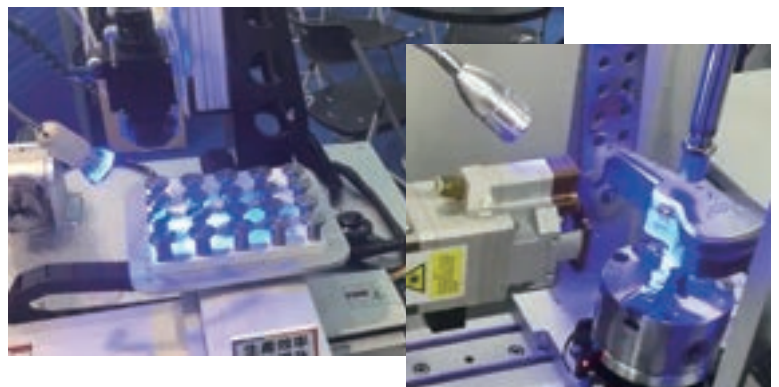
User can do extra development without coding. Not only protect your know-how, but also customize for different customer.



Application Case

01 Support multiple structure of mechanism

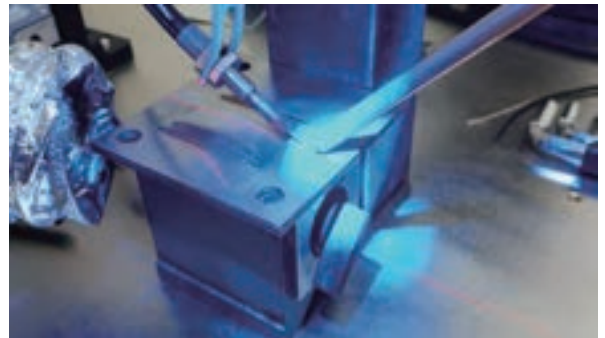
- 3 to 5 axis laser welding standard solution, eliminating the need for adjusting.
- Multiple station set save load time and increase efficiency.





02 Complete Wire Feeding Craft

- Complete solution on laser welding wire feeding, support most of feeder in market and servo type.
- In servo type, support setup on feed rate, pre-trigger, post-trigger, lest the wire stick with substrate after pulling back.
- Support rotary wire feeding. With rotary mechanism, the feeder will autonomously adjust its direction to reach multi-directional feeding.



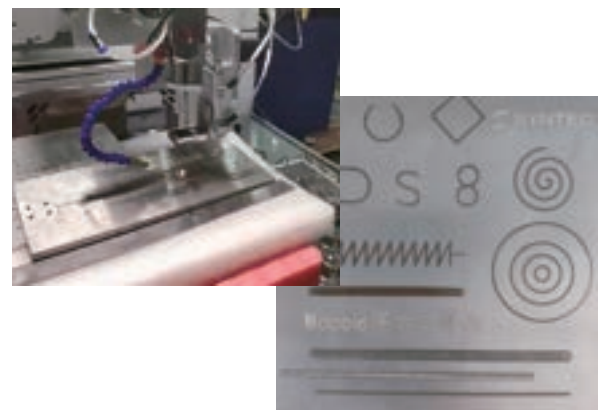
03 RTCP Velocity Control

- Integrate motion and laser control to reach a stable welding, fix over-heating problem on multi-shaped parts.
- Provide two station with quick calibration.



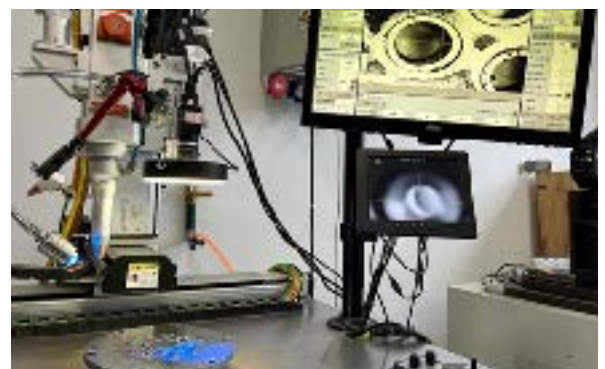
04 Wobble Craft

- Provide wobble control for large dimensional error and large weld seam.



05 Vision Alignment Weld

- Provides highly integrated visual software with unified operating interface to meet alignment needs.
- Improve production quality and efficiency.
- In-depth development of applications in subdivided fields and provision of industry-specific solutions





Specification

Advanced Serial Solution



System	FC-B	730WA
Display	VGA(External monitor)	
USB	2	3
Internet	10/100 Mbps	
Protocol	RS485, ModbusTCP, EtherNet/IP	
Servo	MECHATROLINK-III/EtherCAT	
Axis No.	4 (Max 18)	6 (Max 18)
External Device	RJ-45, USB, DSUB, MPG	
I/O	Up to 4096 I/O	16I/12O, Up to 4096 I/O
Input Vol.	DC 24V 1A	

Economical Solution



System	FC-A	HC8S-5E-A
Display	VGA ((External monitor)	
USB	2	
Internet	10/100 Mbps	
Protocol	RS485, ModbusTCP, EtherNet/IP	
Servo	Pulse	Pulse(No Feedback)
Axis No.	4	5
External Device	RJ-45, USB, DSUB, MPG	
I/O	Up to 4096 I/O	16I/8O, Up to 4096 I/O
Input Vol.	DC 24V 1A	

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