SW-3500-20/SH-H3K7

Ultrasonic Metal Welder

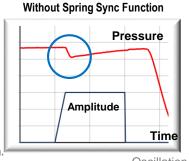


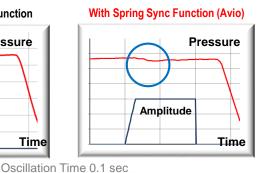
Highly Reliable Welding of Aluminum Cables to Copper Terminals Welds Copper/Aluminum Harnesses, Bus Bars, and Foil Laminates

- Spring Pressure Sync Mechanism
 - Excellent response to the pressure variations prevents slip between horn and work, reduces ultrasonic energy loss and minimizes dust and waste.
- High Rigidity Pressure Mechanism
 - Maintains very small deflections to ensure uniform weld side pressure.
- Unique, Original Design Ultrasonic Oscillation Frequency Automatic Tracking System
 - Ensures stable vibration amplitude during high loads.
- High Performance Depth Control (1µm Resolution Linear Scale)
 Oscillation is controlled by feedback of sinking of work and work height.
- 4 Types of Oscillation Control Method
 - Time, Work Sinking Value, Work Height, Applied Energy



Air Pressure Method Air pressure method decreases Pressure the pressure with the work's deformation. Time Point A indicates start of ultrasonic waves application.

















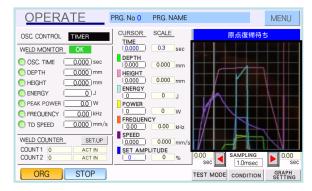


SW-3500-20/SH-H3K7 Ultrasonic Metal Welder

- Easy Management
- Easy Operation
- Easy System Integration
- Easy Management with Graphic Monitor Function
 - •Ultrasonic Peak Output
 - Ultrasonic Energy
 - •Sinking Amount of the Work
 - •Work Height
- Simple Operation, Easy-to-read Display
 - •7-inch LCD Touch Panel
 - •Intuitive Operation
 - •Graphic Display
- Setting and Management of Data via Serial Communication (RS-232C)
 - Weld Conditions
 - Monitor Value
 - Judgment Result

Model	Feature	Specification
Ultrasonic Generator SW-3500-20	Maximum Output Power	3,500 W
	Nominal Frequency	20 kHz
	Oscillation Method	Automatic Tuning Hold Master Oscillator System (ATHMOS)
	Amplitude Adjustment	Variable (30 - 100%, 1% step)
	Control Mode	Time/Depth/Height/Energy
	Power Source	3 φ AC 200 V, 20 A
	Dimension	W250 x D450 x H375 mm
	Weight	20 kg
Ultrasonic Head SH-H3K7	Pressure Follow-up Mechanism	Spring + Air
	Adjustable Pressure Range	1,700 N - 3,700 N
	Stroke	50 mm
	Supply Air Pressure	0.5 MPa (Clean, Dry Air)
	Dimension	W380 x D600 x H935 mm
	Weight	102 kg (Horn and Anvil excluded)

Operation Screen

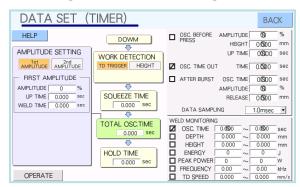


A CAUTION

BEFORE OPERATION, read the Operation Manual carefully. This unit should be located away from water, moisture, steam, dust and soot to prevent fire, electrical shock, and operational problems.

 ${}^{*}\mathrm{The}$ appearance and specifications are subject to change without notice.

Welding Condition Setting Screen



Requests for Sample Testing are Welcomed.
Please Contact Us.



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