SW-D Series
Ultrasonic Welder

Avio

High-speed・automation machine type line up to support reliable "Monozukuri" (manufacturing)

SW-D series has 5 models of 20kHz～48.5kHz, 600W/900W with various control mode and monitoring function, which is applicable to wide variety of work.
It is the high-end ultrasonic welder with Ethernet capability and tractability.

Selectable Oscillation Mode

Welding at optimum parameter
・Peak power control
・Energy control
・Timer control
・Continuous oscillation control
・**External sensor control**

Displacement sensor, Temp. sensor, etc.

Real-time Monitoring

OK/NG judgement of welding
・Peak power value
・Energy value
・Frequency
・Oscillation time
・**External sensor value (3ch)**

P. 01	WELD MON.1	
f	39.03 kHz	OK
t	0.87 s	OK
E	600 J	—
P	759 w	OK
S1	3.930 v	NG
S2	0.000 v	—
S3	0.000 v	—

Monitor display

Portable Controller

Easy setting with remote control
・Parameter setting
・Welding result display
・LCD touch panel
・small size/ light weight
・Detachable and to be used with multiple unit

Controller UA-C01

External connection, IoT adaptability

For centralized data management
For high demand of autmation

・LAN（Ethernet)
・RS-232C
・**External analog**
・I/O
・CF card (Front)

Supreme Controllability

High-speed and stable welding
・**Auto-frequency tracking (Digital ATHMOS)**

Selectable based on application
・Multi-stage oscillation function
　Pre-pressure oscillation, etc.
・Additional time
・After burst

Others

Ease of use
・AC100-240V multi-power source
・LED error display
　Power label
　Error type

Robustness
・Overcurrent protection, large ventilation fan

LO LOAD HI

ERROR 1 2 3 4 5

Application Examples

20kHz

Food Cutting

Cloth Cutting

Sun Visor

27kHz

Welding of Unwoven Fabric

Welding of Film

Mask

Tea Bag

39kHz

Welding of Insulator

Caulking of Large Boss

Door Trim

Φ0.2～

48kHz

Film Cutting

Caulking of Small Boss

Battery Separator

～Φ0.2

SW-D Series

SW-D900S-20
SW-D900S-27
SW-D900S-39
SW-D600S-39
SW-D600S-48

Oscillator & Horn

NIPPON AVIONICS CO.,LTD.

SW-D Series Ultrasonic Welder

Model	SW-D900S-20	SW-D900S-27	SW-D900S-39	SW-D600S-39	SW-D600S-48
Max. Output Power	900W（In continous: 400W）			600W（In continous: 300W）	
Frequency	20kHz	27kHz	39kHz	39kHz	48.5kHz
Oscillation Method	Digital ATHMOS				
Amplitude Adjustment	30～100%（1% step）				
Oscillation Control Mode	Timer/Energy/Peak Power/External Sensor/Continous				
Monitor Function（Pass/Fail Judgement）	Frequency/Oscillation Time/Energy/Peak Power/External Sensor				
Parameter Memory	31				
Interface	I／O/ Analog/RS-232C/LAN/CF Card				
Input Power	Single Phase AC100～240V±10%				
Power Consumption	1,350VA			900VA	
Operating Temperature	5~50℃（No freezing）				
Operatiing Humidity	Less than 90%（No condensation）				
Dimentions	W150×D370×H310mm （Including protrusions）				
Weight	Approx. 8.5kg				

※Specifications and appearance are subject to change without notice for improvement.

■Portable Controller

Portable Controller
UA-C01

Model		UA-C01
LCD	Size	3.5 inch TFT LCD
	Resolution	W320×H240
	Color	4,096 colors
Touch Panel	Method	RESISTANCE FILM TYPE
	Color	320×240
	Buzzer	available
Language		English
Power Input		Supplied From Welding
Cable Length		1.5m

WARNINGS & CAUTIONS
· Before using this product, please carefully read the provided Operation Manual "WARNINGS" & "CAUTIONS" section to ensure proper operation.
· Please do not place the product in high temperature, high humidity or high inert gas environments.

Distributor: