SW-D Series
Ultrasonic Welder

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

Real-time Monitoring

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

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

External connection, IoT adaptability

- For centralized data management
- For high demand of automation
  - LAN (Ethernet)
  - RS-232C
  - External analog
  - I/O
  - CF card (Front)

Supreme Controllability

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

Selectabe 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

Robustness

- Overcurrent protection, large ventilation fan

Application Examples

- 20kHz
  - Food Cutting
  - Cloth Cutting
  - Sun Visor

- 27kHz
  - Welding of Unwoven Fabric
  - Mask
  - Tea Bag

- 39kHz
  - Welding of Insulator
  - Caulking of Large Boss

- 48kHz
  - Film Cutting
  - Caulking of Small Boss

- Oscillator & Horn
  - Door Trim
  - Battery Separator

SW-D Series

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

NIPPON AVIONICS CO., LTD.
SW-D Series Ultrasonic Welder

<table>
<thead>
<tr>
<th>Model</th>
<th>SW-D900S-20</th>
<th>SW-D900S-27</th>
<th>SW-D900S-39</th>
<th>SW-D600S-39</th>
<th>SW-D600S-48</th>
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</thead>
<tbody>
<tr>
<td>Max. Output Power</td>
<td>900W (In continuous: 400W)</td>
<td>600W (In continuous: 300W)</td>
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<tr>
<td>Frequency</td>
<td>20kHz</td>
<td>27kHz</td>
<td>39kHz</td>
<td>39kHz</td>
<td>48.5kHz</td>
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<tr>
<td>Oscillation Method</td>
<td>Digital ATHMOS</td>
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<tr>
<td>Amplitude Adjustment</td>
<td>30~100% (1% step)</td>
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<tr>
<td>Oscillation Control Mode</td>
<td>Timer/Energy/Peak Power/External Sensor/Continuous</td>
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<tr>
<td>Monitor Function</td>
<td>(Pass/Fail Judgement)</td>
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<tr>
<td>(Pass/Fail Judgement)</td>
<td>Frequency/Oscillation Time/Energy/Peak Power/External Sensor</td>
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<tr>
<td>Parameter Memory</td>
<td>31</td>
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<tr>
<td>Interface</td>
<td>I/O/ Analog/RS-232C/LAN/CF Card</td>
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<tr>
<td>Input Power</td>
<td>Single Phase AC100~240V ± 10%</td>
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<tr>
<td>Power Consumption</td>
<td>1,350VA 900VA</td>
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<tr>
<td>Operating Temperature</td>
<td>5~50℃ (No freezing)</td>
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<tr>
<td>Operating Humidity</td>
<td>Less than 90% (No condensation)</td>
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<tr>
<td>Dimensions</td>
<td>W150×D370×H310mm (Including protrusions)</td>
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<tr>
<td>Weight</td>
<td>Approx. 8.5kg</td>
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※Specifications and appearance are subject to change without notice for improvement.

■Portable Controller

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<tr>
<th>Model</th>
<th>UA-C01</th>
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<tr>
<td>LCD</td>
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<td>3.5 inch TFT LCD</td>
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<td>W320×H240</td>
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<td>Color</td>
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<td>Method</td>
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<td>Power Input</td>
<td>Supplied From Welding</td>
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<td>Cable Length</td>
<td>1.5m</td>
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</table>

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http://www.avio.co.jp/english/

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: