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
  - 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)
  - 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 automation
    - 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

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
# 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>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Output Power</td>
<td>900W (In continuous: 400W)</td>
<td>900W (In continuous: 400W)</td>
<td>600W (In continuous: 300W)</td>
<td>600W (In continuous: 300W)</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>
<td>Digital ATHMOS</td>
<td>Digital ATHMOS</td>
<td>Digital ATHMOS</td>
<td>Digital ATHMOS</td>
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<tr>
<td>Amplitude Adjustment</td>
<td>30~100% (1% step)</td>
<td>30~100% (1% step)</td>
<td>30~100% (1% step)</td>
<td>30~100% (1% step)</td>
<td>30~100% (1% step)</td>
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<tr>
<td>Parameter Memory</td>
<td>31</td>
<td>31</td>
<td>31</td>
<td>31</td>
<td>31</td>
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<tr>
<td>Input Power</td>
<td>1,350VA</td>
<td>900VA</td>
<td>900VA</td>
<td>900VA</td>
<td>900VA</td>
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<tr>
<td>Power Consumption</td>
<td>1,350VA</td>
<td>900VA</td>
<td>900VA</td>
<td>900VA</td>
<td>900VA</td>
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<tr>
<td>Operating Temperature</td>
<td>5~50°C (No freezing)</td>
<td>5~50°C (No freezing)</td>
<td>5~50°C (No freezing)</td>
<td>5~50°C (No freezing)</td>
<td>5~50°C (No freezing)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>Less than 90% (No condensation)</td>
<td>Less than 90% (No condensation)</td>
<td>Less than 90% (No condensation)</td>
<td>Less than 90% (No condensation)</td>
<td>Less than 90% (No condensation)</td>
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<tr>
<td>Dimensions</td>
<td>W150 × D370 × H310mm (Including protrusions)</td>
<td>W150 × D370 × H310mm (Including protrusions)</td>
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<tr>
<td>Weight</td>
<td>Approx. 8.5kg</td>
<td>Approx. 8.5kg</td>
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</table>

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

## Portable Controller

![Portable Controller UA-C01](image)

<table>
<thead>
<tr>
<th>Model</th>
<th>UA-C01</th>
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<tbody>
<tr>
<td>LCD</td>
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<td>Language</td>
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<tr>
<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>

## 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.

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