ultrasonic seam welding systems

ACTUATORS

MSW20 Seam Welder  MSWA20 Vertical Actuator  MSWA20RA Vertical Actuator with Rotary Anvil and Plate  MSWA20ST12 Vertical Actuator with Motorized Slide Table and Plate

Sonics’ 20 kHz ultrasonic seam welding systems consist of a welder (available as a stand-alone unit or with an actuator, per the models shown above) and a power supply as shown below.

POWER SUPPLIES

MODELS
MXC  Remote Impulse and Continuous Duty Actuation

POWER LEVELS
• 1500 Watts Peak Power
• 2500 Watts Peak Power
• 4000 Watts Peak Power

Sonic’s MXC Series power supplies are available in 2 versions: a low profile model for 1500 and 2500 watt units, and a high profile model for 4000 watt units. The features of the models are noted below.

POWER SUPPLY FEATURES
- Microprocessor Controlled
- Automatic Frequency Tuning
- Digital Amplitude Control
- Digital Stack Wattage Display
- Digital Stack Frequency Display
- Weld Cycle Counter
- Soft Start Overload Protection Circuitry
- Load Regulation Circuitry
- PLC I/O Interface Connection

for more information: 1-800-745-1105  www.sonics.com
**additional features**

- Rigid Dual Cross Roller Bearing Stack Housing
- Most Compact System Profile in the Industry
- Steel Ultrasonic Rotary Horn with Replaceable Tip
- Weld Wheels in Various Widths and Knurl Patterns
- Zero Contact and Frictionless Rotary Commutator
- Weld Speeds of up to 80 Feet (25 Meters) per Minute
- High Efficiency Air Vented Ultrasonic Converter
- Single Piece, Dual Nodal Mount Horn and Booster Stack

**system options**

- Foot Pedal Switch with Emergency Stop
- Secondary Booster: Aluminum or Titanium Secondary Booster

**MSW20 dimensional data**

![MSW20 Dimensional Data Diagram]

**specifications**

### Actuator Data:

- MSW20 Seam Welder Weight: 25 Lbs. (11.3 kg)
- MSWA20 Vertical Actuator Weight: 55 Lbs. (24.9 kg)
- MSWA20RA Vertical Actuator with Rotary Anvil and Plate Weight: 70 Lbs. (31.7 kg)
- MSWA20ST12 Vertical Actuator with Motorized Slide Table Weight: 80 Lbs. (36.2 kg)
- Pneumatic Requirement: 80 PSI Clean and Dry Air Service

### Low Profile Power Supply Data:

- Peak Output Power: 1500 Watts (1.5 kW) or 2500 Watts (2.5 kW)
- Power Supply Weight: 21 Lbs. (9.5 kg)
- Power Supply Dimensions: 15.2" (386 mm) Wide x 7.0" (178 mm) High x 18.7" (476 mm) Deep
- Power Requirement: 220 VAC Single Phase

### High Profile Power Supply Data:

- Peak Output Power: 4000 Watts (4.0 kW)
- Power Supply Weight: 70 Lbs. (31.7 kg)
- Power Supply Dimensions: 17.6" (447 mm) Wide x 10.7" (272 mm) High x 22.5" (571 mm) Deep
- Power Requirement: 220 VAC Single Phase