

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



MXC Series Low Profile



MXC Series High Profile

Sonics' MX Series power supplies come 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 | ■ Weld Cycle Counter |
| ■ Automatic Frequency Tuning | ■ Soft Start Overload Protection Circuitry |
| ■ Digital Amplitude Control | ■ Load Regulation Circuitry |
| ■ Digital Stack Wattage Display | ■ PLC I/O Interface Connection |
| ■ Digital Stack Frequency Display | |

system options

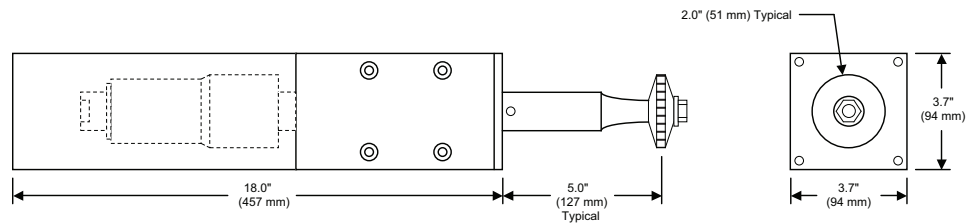
Foot Pedal Switch with Emergency Stop



Secondary Booster: Aluminum or Titanium Secondary Booster



MSW20 dimensional data



specifications

Actuator Data:

MSW20 Seam Welder Weight: 25 Lbs. (11.3 kg)
 MSA20 Vertical Actuator Weight: 55 Lbs. (24.9 kg)
 MSA20RA Vertical Actuator with Rotary Anvil and Plate Weight: 70 Lbs. (31.7 kg)
 MSA20ST12 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

additional features

- Rigid Dual Cross Roller Bearing Stack Housing
- Most Compact System Profile in the Industry
- Steel Ultrasonic Rotary Horn
- 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