ultrasonic spot welding systems

ACTUATORS

FEATURES
- Rigid I-Beam Cast Center Frame
- Patented 90° Self-Orienting Keyed Horns and Tips
- Single Piece, Dual Nodal Mount Horn and Booster Stack
- Precision Micrometer Stack Up and Down Stops
- Independent Horn and Converter Air Cooling Flow Control
- Pre-Lubricated and Sealed Linear Bearings
- Pneumatic Actuation

Sonics’ 15 kHz ultrasonic metal welding systems consist of an actuator, available versions shown above, and a power supply, the MX or MSC series, shown below.

POWER SUPPLIES

MODELS
- MXC Remote Impulse Actuation
- MXT Time Based Weld Mode
- MXE Time and Energy Based Weld Modes
- MSC SmartControl with Time, Energy and Height-Based Weld Modes

POWER LEVELS
- 3000 Watts Peak Power
- 6000 Watts Peak Power

Sonics’ 15 kHz power supplies are available in 2 versions, the MX Series, with standard keypad operation and the SmartControl MSC Series with full color touch screen controls. The features of the models are compared below.
**system options**

*SmartControl*
Electronic Pressure and Height Control

Foot Pedal Switch with Emergency Stop

X-Y Adjustable Fixture Anvil

*SmartControl*
Bar Code Scanner

Secondary Booster: Aluminum or Titanium Secondary Booster

Smart Program: *SmartControl* System PC Interface Program

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**MWB15 dimensional data**

**Add Approximately 7.5" (190 mm) for Secondary Booster**

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**specifications**

**Actuator Data:**

MWA15 Actuator Weight: 50 Lbs. (27.7 kg)
MWP15 Actuator on Plate Weight: 62 Lbs. (28.1 kg)
MWB15 Actuator on Integral Base Weight: 90 Lbs. (40.8 kg)
Pneumatic Requirement: 80 PSI Clean and Dry Air Service

**High Profile Power Supply Data:**

Peak Output Power: 3000 W or 6000 W
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:
  
  3000 W - 220 VAC @ 20A
  
  6000 W - 220 VAC @ 30A