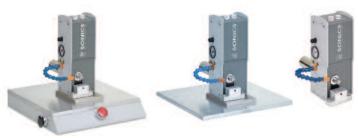


ultrasonic spot welding systems

ACTUATORS

FEATURES

- Pneumatic Actuation
- 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



MWB40 Actuator on Integral Base

MWP40 Actuator on Plate

MWA40 Actuator

Sonics' 40 kHz ultrasonic metal welding systems consist of an actuator (available as a stand-alone unit or on a plate or a base, as shown above) and a power supply, the MX or MSC series, as shown below.

POWER SUPPLIES

MODELS

MXC Remote Impulse Actuation

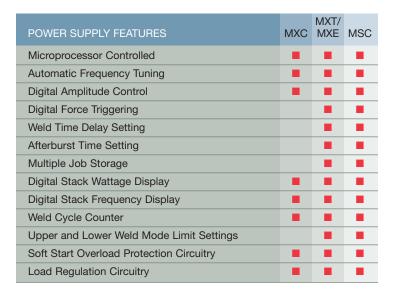
MXT Time Based Weld Mode

MXE Time and Energy Based Weld Modes

MSC SmartControl with Time, Energy and Height-Based Weld Modes

POWER LEVELS

- 400 Watts Peak Power
- 800 Watts Peak Power





MX Series Power Supplies



MSC SmartControl Power Supplies

Sonics' 40 kHz power supplies come 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.

POWER SUPPLY FEATURES	MXC	MXT/ MXE	MSC
Color Touch Panel Operator Screen			
Weld Cycle Graph Chart Screen			
Weld Teach Mode			
Weld Sequence Mode			
Amplitude and Pressure Ramping			
Timed Converter and Horn Air Cooling Cycle			
English and Metric Weld-to Height Settings			
Password Protected Four-Level User Access			
Serial Printer Port Connection			
PLC I/O Interface Connection			
PC Interface Connection			
Bar Code Scanner Connection			

Innovating since



system options

EKIT:

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

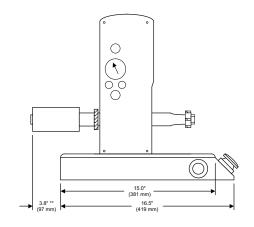


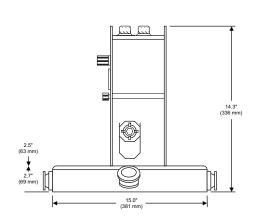
Smart Program: SmartControl

System PC Interface Program



MWB40 dimensional data





specifications

Actuator Data:

MWA40 Actuator Weight: 28 Lbs. (12.7 kg)

MWP40 Actuator on Plate Weight: 40 Lbs. (18.1 kg)

MWB40 Actuator on Integral Base Weight: 69 Lbs. (31.2 kg) Pneumatic Requirement: 80 PSI Clean and Dry Air Service

Low Profile Power Supply Data:

Peak Output Power: 400 Watts (0.4 kW) or 800 Watts (0.8 kW)

Power Supply Weight: 21 Lbs. (9.5 kg)

Power Supply Dimensions: 15.2" (386 mm) Wide x 7.0" (178 mm) High x

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18.7" (476 mm) Deep

Power Requirement: 220 VAC Single Phase

^{**} Add Approximately 2.5" (63 mm) for Secondary Booster