

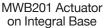
ultrasonic spot welding systems

ACTUATORS

FEATURES

- Rigid Cast Center Frame
- Single Piece, Dual Nodal Mount Horn and Booster Stack
- Precisely Adjustable Up and Down Stops
- Independent Horn and Converter Air Cooling Flow Controls
- Pre-Lubricated and Sealed Linear Bearings
- Pneumatic Actuation
- Electronic Pressure Control







MWA201 Actuator

Sonics' 20 kHz ultrasonic metal welding systems consist of an actuator (available versions shown above) and a power supply (MX or MSC series) shown below.

POWER SUPPLIES



MX Series Low Profile



MX Series High Profile



MSC Low Profile



MSC High Profile

MODELS

MXE - Time and Energy Based Weld Modes

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

POWER LEVELS

- 2500 Watts Peak Power
- 4000 Watts Peak Power

Sonics' 20 kHz power supplies are available in two 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	MXE	MSC
Microprocessor Controlled		
Automatic Frequency Tuning		
Digital Amplitude Control		
Digital Force Triggering		
Weld Time Delay Setting		
Afterburst Time Setting		
Multiple Job Storage		
Digital Stack Wattage Display		
Digital Stack Frequency Display		
Weld Cycle Counter		
Upper and Lower Weld Mode Limit Settings		
Soft Start Overload Protection Circuitry		
Load Regulation Circuitry		

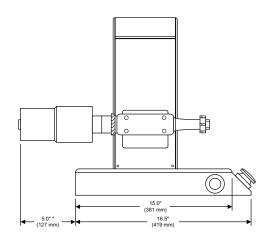
POWER SUPPLY FEATURES	MXE	MSC
Color Touch Panel Operator Screen		
Weld Cycle Graph Chart Screen		
Weld Teach Mode		
Weld Sequence Mode		
Amplitude and Pressure Ramping		
Timed Converter and Horn Air Cooling Cycle		
English and Metric Weld Height Settings		
Password Protected Four-Level User Access		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

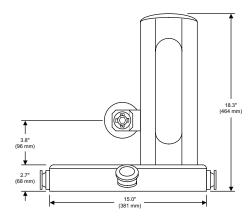
*Optional

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MWB201 dimensional data





^{**}Add Approximately 5.5" (140 mm) for Secondary Booster)

system options

Foot Pedal Switch with Emergency Stop



Secondary Booster:

Aluminum or Titanium Secondary Booster



specifications

Actuator Data:

MWA201 Actuator Weight: 44 Lbs. (19.9 kg)

MWB201 Actuator on Integral Base Weight: 85 Lbs. (38.5 kg) Pneumatic Requirement: 80 PSI Clean and Dry Air Service

Low Profile Power Supply Data:

Peak Output Power: 2500 W

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 @ 20A

High Profile Power Supply Data:

Peak Output Power: 4000 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: 220 VAC @ 30A

