



**SONICS**<sup>®</sup>  
SONICS & MATERIALS, INC.

#### POWER

- 40 kHz — 800 Watts power
- 20 kHz — 1200 Watts power
- 20 kHz — 2200 Watts power

#### FEATURES

- Rack and pinion jaw system
- Opposing force center position
- 360 degree adjustable converter/booster/horn

#### MODELS

T40M - 40 kHz  
bench-top system

T40A - 40 kHz power  
head actuator

T201M - 20 kHz  
bench-top system

T201A - 20 kHz power  
head actuator

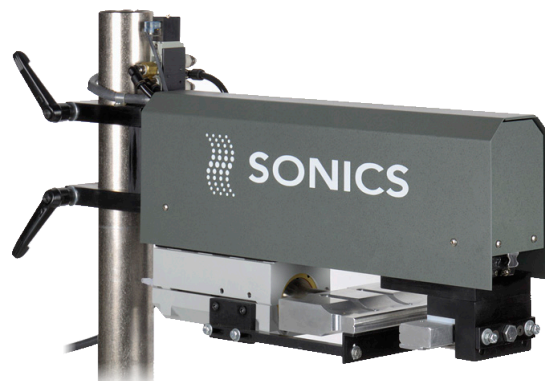
#### BENEFITS:

- Microprocessor Controlled
- Strength of tube seal not compromised by presence of contaminants like ink, dye, powder, emulsion, etc.
- Minimal extrusion of excess plastic and/or laminate tube material.
- Tube materials need not be pre-heated.
- Cost saving on-demand energy usage vs. continuous energy.
- Seal strengths attainable to 100% of the parent material.
- Instantaneous solidification of bonded material.
- Optional product coding available

## Ultrasonic Plastic Tube Sealing System



**T40M**



**T201A**

Leaders in the field of ultrasonic plastics welding equipment and technology since 1969, Sonics & Materials, Inc. offers Tube Sealers in frequencies of 40 kHz and 20 kHz.

Sonics & Materials' ULTRASONIC TUBE SEALERS offer fast, clean and repeatable sealing of plastic or laminated collapsible squeeze tubes in a single step process. Two models are available for each frequency: a bench top system for operator load and unload, and a power head actuator for automated in-line production systems.

Ultrasonic welding, or sealing, is a process that combines high frequency mechanical vibrations and pressure. This combination of mechanical action and force creates friction that generates heat to instantaneously melt and fuse the plastic tube.

Our ultrasonic tube sealers accommodate the wide variety of tube materials used in automotive, hardware, pharmaceutical, food, cosmetics, medical and scientific applications. For example, suitable materials include butyrate, cellulose, nylon, polyester, polyethylene, polypropylene, PVC and other laminated materials.



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## New Features:

- Digital Amplitude Control
- Ultrasonic Horn/Stack Frequency Display
- Good Part/Bad Part Output Signal

## Specifications:

**Power Output** - 800, 1200 or 2200 watts

**Input Voltage** - 220 VAC nominal  
(120 VAC optional for 800 and 1200 watts)

**Dimensions** - 6.50" (165.1 mm) High  
x 15.25" (387.3 mm) Wide  
x 17.00" (431.8 mm) Deep  
Weight - 21 lbs. (9.5 kg)

## Other Standard Features:

- Automatic Frequency Tuning
- Multiple Job Storage
- Digital Force Triggering
- Calibration Pulse Prior to Every Weld Cycle
- Back-Lit LCD Display
- Ultrasonics Load Meter Scale
- Upper and Lower Weld Limit
- Settings
- Optional RS232 Serial Port Printer Output
- Optional PLC I/O (Input/Output) Ports
- Soft Start Overload Protection Circuitry
- Load Regulation Circuitry

## Also Available!

**Ultrasonic kits – ideal for OEM systems integrators and machinery builders.**

## GX-Series Ultrasonic Power Supply Specifications



**Model GXT**

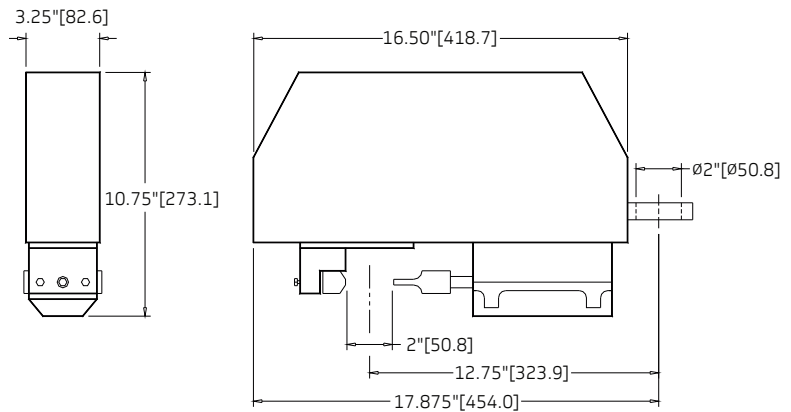
*weld by digital time*

**Model GXE**

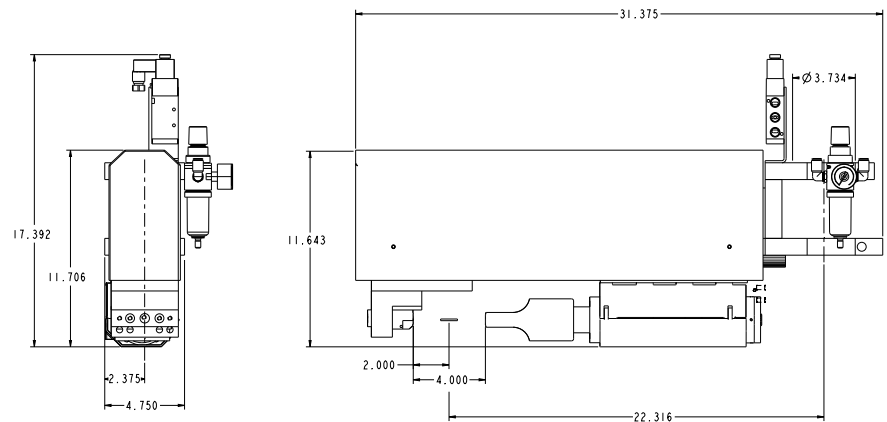
*weld by digital time and/or constant energy*

## Power Head Actuator Specifications and Dimensional Data

**40 kHz**



**20 kHz**



### Typical Serrated Anvil Patterns



**WEIGHT:** Model T40A – 25 lbs. (55.1 kg.)  
Model T40M – 75 lbs. (165.3 kg.)  
Model T201A – 150 lbs. (68 kg.)  
Model T201M – 200 lbs. (90 kg.)



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