

## Heavy Duty High Intensity SONICATOR Ultrasonic Processor for Low and High Temperature Liquids Processing

Main Web Site: <http://www.mpi-ultrasonics.com>

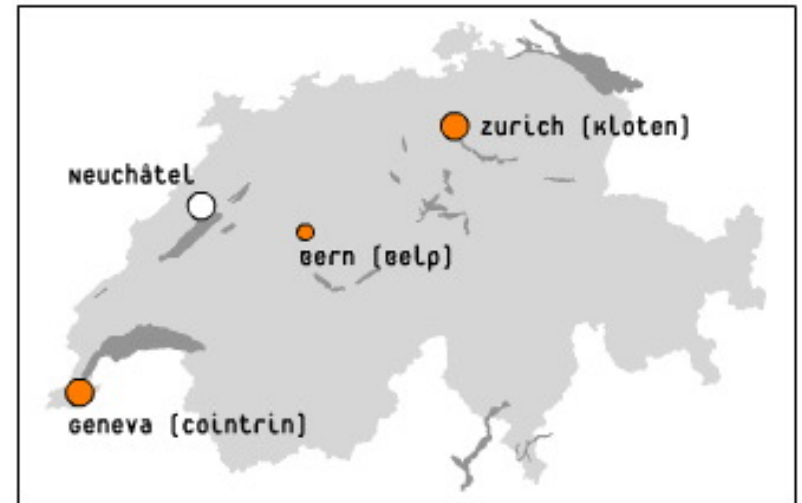
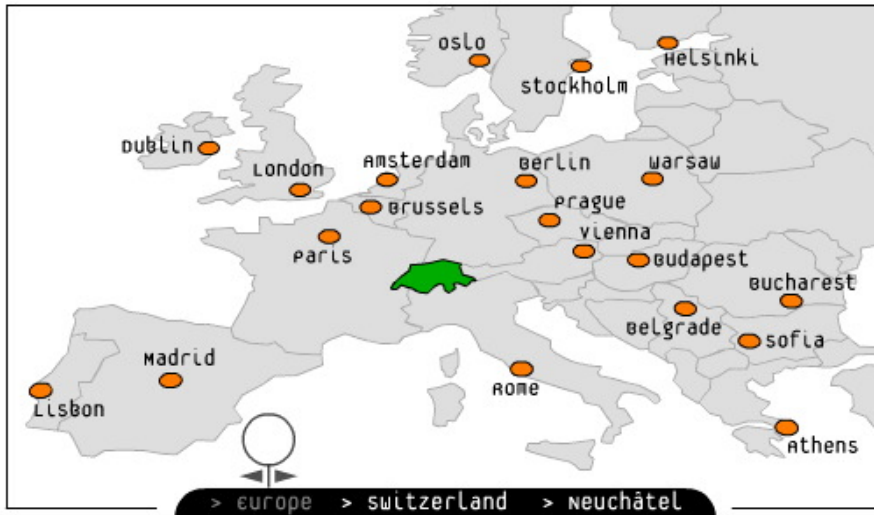
Download Server: <http://mastersonics.com>

Email: [mpi@mpi-ultrasonics.com](mailto:mpi@mpi-ultrasonics.com)



## Location:

### Neuchatel, Le Locle, Switzerland



# High Intensity SONICATOR

Converter + Booster + Sonotrode



**High power converters with air  
and/or water cooling**

## High Intensity SONICATOR

---

### Applications:

- **Homogenization, Emulsification, Mixing**
- **Extractions from organic and inorganic materials**
- **Nano-particles & nano-emulsions technologies**
- **Biodiesel production**
- **Cells disruptors**
- **Atomizing low and high viscosity liquids**
- **Liquids processing on high temperatures (until 250°C)**



# Choice of different sonotrodes for maximizing and optimizing extraction & homogenization

- **Spherical-end sonotrode: Uniform axial and radial high intensity mixing; -minimized sonotrode erosion**



**Step, piston-type horn: Extremely high intensity axial mixing like “ultrasonic torch”**

# High Intensity Sonicators & Rigid Mount Flange

Rigid fixation to any closed system or vessel



**Converter - booster - flex-rigid-mount – sonotrode: Good for low and moderate gain boosters**

**Converter - flex-rigid-mount - booster - sonotrode: Good for very high gain boosters and high loading operations**

**flex-rigid-mount  
Flanges and  
Boosters**

## High Intensity SONICATOR in action - 1

Click and activate the movie files below



# High Intensity SONICATOR in action – 2

Click and activate movie files





# High Intensity SONICATOR in action – 3

- Click and activate movie files





# Ultrasonic Processor for Low and High Temperature Liquids Processing

---

## Technical characteristics:

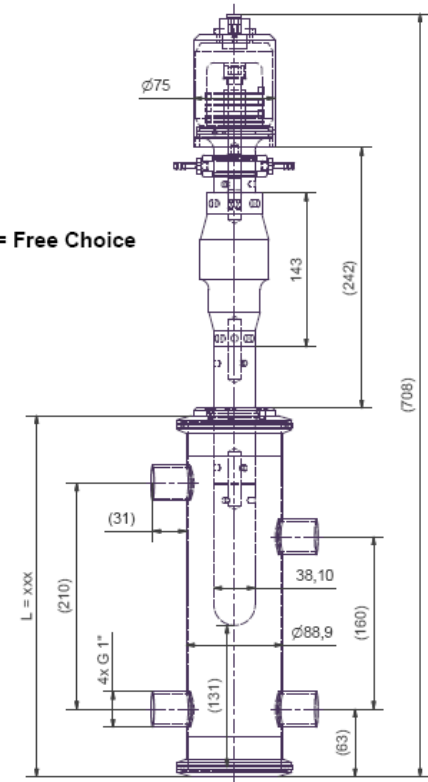
- 20 kHz, variable power & amplitude
- 750 W, continuous power, 1000 W pulsed power
- Ultrasonic converter: 3 kW, oversized for heavy duty
- Titanium sonotrodes and boosters selection
- Options for air and/or water cooling for extreme operating conditions
- Options for 230 VAC, 50 Hz, and or 115 VAC, 60 Hz main supply

# Flex Probe Sonicator "88"

## Standard Delivery Set



L = xxx = Free Choice





**Standard delivery set:** Ultrasonic Converter, Booster (only one), Flex-mount Resonator, Spherical Sonotrode, and Reactor Vessel-88 with flanges and fast clamps/covers.

**Optional (ask for quote):** More boosters, Additional Sonotrodes, Different Reactor Vessel.

