Ultrasonic Cleaning Machines
Final cleaning of instruments with maximum power and delicate cleaning of cosmetic/corrective prostheses with adjustable power setting.

Degreasing of surgical instruments, artificial components, etc. Sterilization chemicals can be added to beakers and used in the tank.

Cleaning of disk drives, chips, p.c. boards etc. Precision cleaning of printer heads, platens, memory cards and other components.

Precision cleaning of critical and delicate components by means of adjustable power settings. Expert cleaning of all types of metal parts including gears, springs, filters, tube, pipe, hinges, ball bearings, brushes.


Cleaning of finished goods (watches, chains, rings etc. by the piece or in bulk).
CEIA specializes in the manufacture of Ultrasonic Cleaning Machines designed to clean products with a high-grade finish such as jewellery, silverware and precision machine parts. Residual grease, abrasive cleaners and oils left in awkward corners and indentations by the machinery used to manufacture these objects are easily removed by the ultrasonic cavitation produced in the cleaning liquid.

Our range includes models to meet all types of requirements, from the needs of the craftsman to industrial applications.

The CP104 model has stepped selection of the cleaning power and time, and also provide constant-temperature heating of the liquid.

The CP102 Digit and CP104 Digit models, on the other hand, offer fine numerical adjustment of all cleaning parameters (power, time and temperature).

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**MODEL CP102 DIGIT CP104 Standard CP104 DIGIT**

<table>
<thead>
<tr>
<th>Bath dimensions (LxWxD)</th>
<th>235 x 135 x 100 mm</th>
<th>235 x 135 x 145 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bath capacity</td>
<td>2.5 litres</td>
<td>4 litres</td>
</tr>
<tr>
<td>Power absorbed</td>
<td>270W</td>
<td>300W</td>
</tr>
<tr>
<td>Power produced</td>
<td>70/140W</td>
<td>100/200W</td>
</tr>
<tr>
<td>Heating power</td>
<td>200W</td>
<td>300W</td>
</tr>
<tr>
<td>External dimensions (LxWxD)</td>
<td>320 x 220 x 280 mm</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>4.2 Kg</td>
<td>4.4 Kg</td>
</tr>
<tr>
<td>Nominal frequency</td>
<td>39 kHz</td>
<td></td>
</tr>
<tr>
<td>Power supply</td>
<td>115/230V AUTO</td>
<td>-15% / +10%, 50-60Hz with automatic switching</td>
</tr>
</tbody>
</table>
Models CP316 Digit and CP831 Digit are usually used in goldsmithery and costume jewellery workshops, dental technicians’ laboratories, hospital departments responsible for washing surgical instruments and analysis test-tubes (before sterilisation), precision mechanical workshops, spectacle-frame manufacturing and optical laboratories.

The CP316 Digit and CP831 Digit Cleaners use a microprocessor-controlled ultrasound generation system. This regulates the energy supplied to the transducer unit dynamically, so as to obtain the maximum cleaning power, optimum performance and long life for the transducers themselves.

All cleaning parameters (power, time and temperature) are digitally adjustable, and their current settings are shown on individual displays.

The Cleaners’ casing is entirely in INOX stainless steel, and therefore offers long-lasting strength and reliability.

### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>CP316 Digit</th>
<th>CP831 Digit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bath dimensions (LxWxD)</td>
<td>400 x 250 x 175 mm</td>
<td>400 x 250 x 340 mm</td>
</tr>
<tr>
<td>Bath capacity</td>
<td>16 litres</td>
<td>31 litres</td>
</tr>
<tr>
<td>Power absorbed</td>
<td>900W</td>
<td>1800W</td>
</tr>
<tr>
<td>Power produced</td>
<td>300/600W</td>
<td>800/1600W</td>
</tr>
<tr>
<td>Heating power</td>
<td>600W</td>
<td>1300W</td>
</tr>
<tr>
<td>External dimensions (LxWxD)</td>
<td>500 x 350 x 400 mm</td>
<td>500 x 350 x 550 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>19 Kg</td>
<td>23 Kg</td>
</tr>
<tr>
<td>Nominal frequency</td>
<td>40 kHz</td>
<td></td>
</tr>
<tr>
<td>Power supply</td>
<td>115/230V AUTO -15% / +10%, 50-60Hz with automatic switching</td>
<td></td>
</tr>
</tbody>
</table>
These models are designed to solve industrial-scale cleaning problems where thorough cleaning is required, perhaps before plating.

The single-bath models USCM 1G 1200 (60 litres) and USCM 1G 1400 (90 litres) respond to the normal needs of precision mechanical industries, plating shops and goldsmithery companies.

Lastly, the single-bath model USCM 1G 2400 (227 litres) is recommended for silverware manufacturers (for cleaning plate and candlesticks), for plating shops and for cleaning glass-ware in chemical industries.

**Model USCM 1G 1200**
- **Bath capacity:** 60 litres
- **Power absorbed:** 3700 W
- **Power produced:** 1200/2400W
- **Heating power:** 2500W
- **External dimensions:** 840 X 535 X 990 mm
- **Weight:** 85 Kg
- **Nominal frequency:** 39 kHz
- **Power supply:** 230VAC * -15% / +10%, 50-60Hz

**Model USCM 1G 1400**
- **Bath capacity:** 90 litres
- **Power absorbed:** 3900 W
- **Power produced:** 1400/2800W
- **Heating power:** 2500W
- **External dimensions:** 840 X 535 X 990 mm
- **Weight:** 182 Kg
- **Nominal frequency:** 39 kHz
- **Power supply:** 230VAC * -15% / +10%, 50-60Hz

**Model USCM 1G 2400**
- **Bath capacity:** 227 litres
- **Power absorbed:** 4800 W
- **Power produced:** 2400/4800W
- **Heating power:** 4800W
- **External dimensions:** 1000 X 700 X 1050 mm
- **Weight:** 182 Kg
- **Nominal frequency:** 39 kHz
- **Power supply:** 230VAC * -15% / +10%, 50-60Hz

*115VAC version available on request
CEIA transducers, tried and tested over a long period in the manufacture of Ultrasonic Cleaners, are also produced in an immersion version.

Contained within a waterproof AISI 316 stainless steel casing, they can easily be mounted on the bottom or sides of even large-scale baths, wherever high levels of ultrasonic power are required. These immersion transducer units are piezoelectric with ceramic crystals. Where multiple units are used, the generators are connected to each other via optic fibre, resulting in an overall, synchronised generating system providing great power and cleaning efficiency.

### TD US

- **4-level power adjustment:** 66%, 77%, 89% and 100%
- **High efficiency with automatic search of the optimum working point of the system which consists of transducer and tank**
- **Controlled by microprocessor**
- **Possibility of personalising the position of the cable outlet at the customer's request**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>TD US 1200</th>
<th>TD US 1400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tank capacity</td>
<td>50 - 70 litres</td>
<td>70 - 120 litres</td>
</tr>
<tr>
<td>Generator Power</td>
<td>1200/2400W</td>
<td>1400/2800W</td>
</tr>
<tr>
<td>Weight</td>
<td>29 Kg</td>
<td></td>
</tr>
<tr>
<td>Nominal frequency</td>
<td>39 kHz</td>
<td></td>
</tr>
<tr>
<td>Power supply</td>
<td>230V ac * / -15% / +10%, 50-60Hz</td>
<td></td>
</tr>
</tbody>
</table>

*115V ac version available on request

### Accessories

- **Covers**
- **Baskets**
- **Hook racks**
- **Beakers and beaker-holders**

### Consumable

- **Cleaning solutions (CleanAreX® 1)**
  - Available in 1 l. and 5 l. packaging

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**Costruzioni Elettroniche Industriali Automatismi**

Zona Industriale 54/G, Viciomaggio - 52040 Arezzo (ITALY)

Tel: +39-0575-4181 - Fax: +39-0575-418297

E-mail: infogold@ceia-spa.com

www.ceia.net

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CEIA reserves the right to make changes, at any moment and without notice, to the models (including programming), their accessories and optionals, to the prices and conditions of sale.