

## Sonicator UIP1000hdT - 1000 Watts Ultrasound Power

[www.hielscher.com/1000](http://www.hielscher.com/1000)

UIP1000hdT  
transducer and  
generator



UIP1000hdT for batch and inline  
sonication



UIP1000hdT recirculation setup  
with flow cell for inline  
sonication

Technical Details

Ultrasonic processor UIP1000hdT (1000W, 20kHz) consisting of transducer and generator; automatic frequency tuning, touch screen, programmable settings, automatic data recording on built-in SD-card, amplitude 25 micron, amplitude adjustable from 50 to 100%, dry running protected, interface for remote or PC-control, transducer IP65 grade, titanium horn, incl. power measurement, socket for ethernet and PT100

Applications

Homogenization, Dispersing & Deagglomeration (e.g. nano particles), Wet-milling & Grinding (e.g. nano materials), Emulsifying, Lysis & Cell Disintegration, Extraction, Sonochemistry

Advantages

**Effectiveness:** High-power, high performance ultrasonic device with 1000 watts power, various recirculation setups for continuous processing,  
**Reproducibility:** Exact reproducibility by full control over the parameters „ Amplitude, Pressure, Temperature, Viscosity, and Concentration“  
**Scalability:** All results achieved can be scaled up linearly.  
**Industrial Grade:** Full industrial grade, for heavy-duty operation and permanent use 24 hours per day (24h/7d)

### Sonicator + Accessories:

- Ultrasonic processor UIP1000hdT
- 115 volts     230 volts
- Sonotrode BS4d22 (tip diameter 22mm)
- Sonotrode BS4d34 (tip diameter 34mm)
- O-Ring-Flange RFLA100
- Flow Cell FC100L1-1S w/ cooling jacket
- Flow Cell Insert34
- Booster Horn B2-1.8
- Stand ST2
- Sound Protection Box SPB2

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