

## Ultrasonic Processor UIP1000hd

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UIP1000hd  
transducer and  
generator



UIP1000hd set for batch and  
inline sonication



UIP1000hd recirculation setup  
with flow cell for continuous  
sonication

Technical Details

Ultrasonic processor UIP1000hd (1000W, 20kHz) consisting of transducer and generator; automatic frequency tuning, amplitude 25 micron, amplitude adjustable from 50 to 100%, dry running protected, interface for remote or PC-control, transducer IP65 grade, titanium horn

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)

### Items:

- Ultrasonic processor UIP1000hd
  - 115 volts
  - 230 volts
- Sonotrode BS2d22 (tip diameter 22mm)
- Sonotrode BS2d34 (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
- Power Meter PowMet115

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