

## New Industrial Ultrasonic Processors: The hdT series

The new series of Hielscher's industrial ultrasonic devices show their superiority: The industrial ultrasonic processors with 500W up to 4000W convince with the high ultrasound power and reliability, which Hielscher's customers are accustomed to, but they excel by their new operational features: The new ultrasonicators of the hdT series are equipped with colored touch-displays, browser remote control, automatic data recording on an integrated USD/SD ComboCard, temperature sensor, LAN and Ethernet connection and many other features, which make the sonication process even more user-friendly and easier to operate and control. Hielscher's industrial ultrasonic equipment is designed to fulfill all requirements of reliable and powerful processing on bench-top and industrial scale. Typical applications of Hielscher's industrial ultrasonicators include homogenization, emulsification, dispersing & deagglomeration, milling & grinding ;

To achieve the best results from an ultrasonic process, the full control over the process parameters is crucial ;



What to expect from the hdT version:

<ul style="list-style-type: none"> <li>reliable heavy duty ultrasonic processor</li> </ul>	<ul style="list-style-type: none"> <li>integrated SD/USB ComboCard</li> </ul>
<ul style="list-style-type: none"> <li>available with 500W, 1000W, 1500W, 2000W, or 4000W ultrasonic power</li> </ul>	<ul style="list-style-type: none"> <li>plugable temperature sensor</li> </ul>
<ul style="list-style-type: none"> <li>24/7 operation</li> </ul>	<ul style="list-style-type: none"> <li>LAN connection</li> </ul>
<ul style="list-style-type: none"> <li>industrial grade</li> </ul>	<ul style="list-style-type: none"> <li>Ethernet connection</li> </ul>
<ul style="list-style-type: none"> <li>colored touch display</li> </ul>	<ul style="list-style-type: none"> <li>no software installation</li> </ul>
<ul style="list-style-type: none"> <li>browse remote control</li> </ul>	<ul style="list-style-type: none"> <li>automatic frequency tuning</li> </ul>
<ul style="list-style-type: none"> <li>automatic data recording of power, amplitude, sonication time, temperature</li> </ul>	

## Upgrade of industrial ultrasonic processors from hd to hdT

Take the chance and upgrade your UIP500hd, UIP1000hd, UIP1500hd, UIP2000hd to the new digital hdT standard!

For an improved and more convenient sonication, Hielscher Ultrasonics offers his existing customers the opportunity to upgrade their ultrasonic processors of the hd-series to the neW hdT-standard, which is characterized by touch control and various features. The upgrade includes all functions and features of the touch control:

- color touch display w/ touch- and stylus-sensitive screen, and intuitive digital control menu
- SD-Card slot (SD/USB-data card included) for automatic recording of all sonication parameters (CSV file)
- display of power, net power, frequency, and temperature
- browser remote control
- temperature sensor w/ extension cord
- Ethernet: Browser Remote Control via LAN web interface (ethernet cable included)

The average work time is 1 week at Hielscher's workshop. An on-site modification is not available. Existing control inputs (Sub-D connector) at the back panel of the generator are maintained. On the UIP2000hd, the existing built-in wattmeter will be removed. Attention: The former PC control (UPC) is not any longer operative after device upgrade to hdT-standard!

On all performed works and replaced parts, Hielscher gives a 12 month warranty.

### Requirements for the Upgrade

- To take advantage of this offer, following requirements must be fulfilled: The device (transducer, generator, cable) must be shipped in clean condition and carefully packed to: Hielscher Ultrasonics GmbH, Oderstr. 53, 14513 Teltow, Germany
- Organization and costs for shipping, customs, and insurance are to be borne by the customer. It is recommended to give a low/adequate declaration for temporary import. Customs sticker can remain on the device during upgrade work. The device modification is subject to export control (possibly subject to BAFA approval. In case of prohibited export, the device must remain at Hielscher and will be destroyed after 12 months). Our staff will assist you regarding the shipping formalities.
- Before the device modification, the functionality and performance of the device will be tested. If during testing, modification work or final 24h-performance test other faults, damages or problems are recognized, which are not covered by warranty, the customer will be informed and a repair subject to charge will be offered.
- Hielscher reserve the right to fulfill the device upgrade by supplying of a new generator.

**Costs:** Please ask for quotation for upgrading or quotation for a new system



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## Industrial Ultrasonic Devices

**Hielscher industrial ultrasonic devices are powerful, efficient and reliable. They are built to operate continuously at high load in industrial environments. With up to 16kW per device, Hielscher is the leading ultrasonics supplier for industrial liquid processes.**



Ultrasonic liquid processing at industrial level requires industrial ultrasonic equipment, because the power requirement rises with the volume or flow to be processed. **Laboratory devices** – although capable of handling up to one ton per day – are not sufficient for production processes. Hielscher is the leading ultrasonics supplier for industrial liquid processing applications, such as, the **dispersing & milling** of pigments in paints or **inks**, formulation of high

performance **coatings** with **nanomaterials**, **manufacturing of biodiesel** or the **pasteurization of food** or beverage.

Device	Power [kW]	Freq. [kHz]	Flow-Rate [m <sup>3</sup> /hr]
UIP500hd	0.5	20	0.0 – 0.25
UIP1000hd	1.0	20	0.0 – 0.5
UIP1500hd	1.0	20	0.0 – 0.75
UIP2000hd	2.0	20	0.0 – 1.0
UIP4000	4.0	20	0.5 – 2.0
UIP10000	10.0	18	1.0 – 10.0
UIP16000	16.0	18	> 10.0

