

SERIES HU

HU 1*i*

CONVERTERS FOR INDUCTION HEATING PROCESSES

High-frequency converters
1 kW / 1,0 - 3,0 MHz



HIMMELWERK
Leading Induction

INDUCTION AT A GLANCE

Induction is **economic**

Due to its high efficiency, induction delights with lower energy costs

Induction is **high-quality**

Perfect reproducibility and smart controls lead to lower defect rates

Induction is **climate friendly**

Lower energy consumption, higher yields and the option to use green electricity assure a considerably smaller carbon footprint

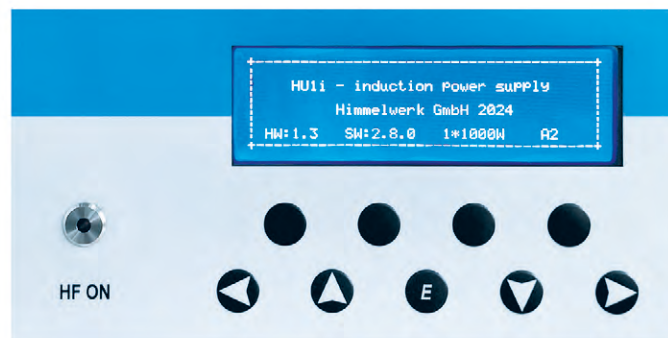
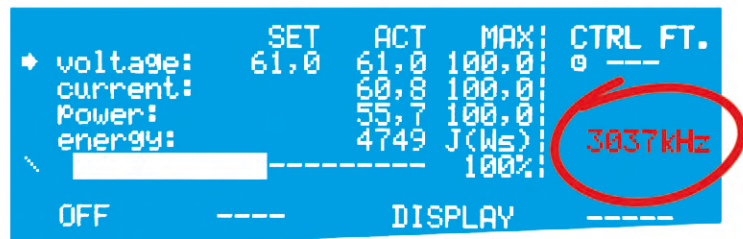
APPLICATIONS OF INDUCTION

- Heat treatment (hardening, annealing, tempering)
- Brazing and soldering
- Joining (shrinking)
- Forming and forging
- Surface treatment (drying, preheating)
- Indirect heating
- Melting
- Sealing
- Special solutions (glueing, plasma generation, crystal growing, nano particles, materials measuring etc.)
- And many more!



The HU 1i fills the gap left by the declining availability of tube-based ultra-high-frequency generators. Applications which rely on the Megahertz frequencies, such as crystal growing or the heating of ultra-thin foils, have recently had few alternatives but to keep their processes alive with tube spare parts continuously getting more scarce and consequently more expensive.

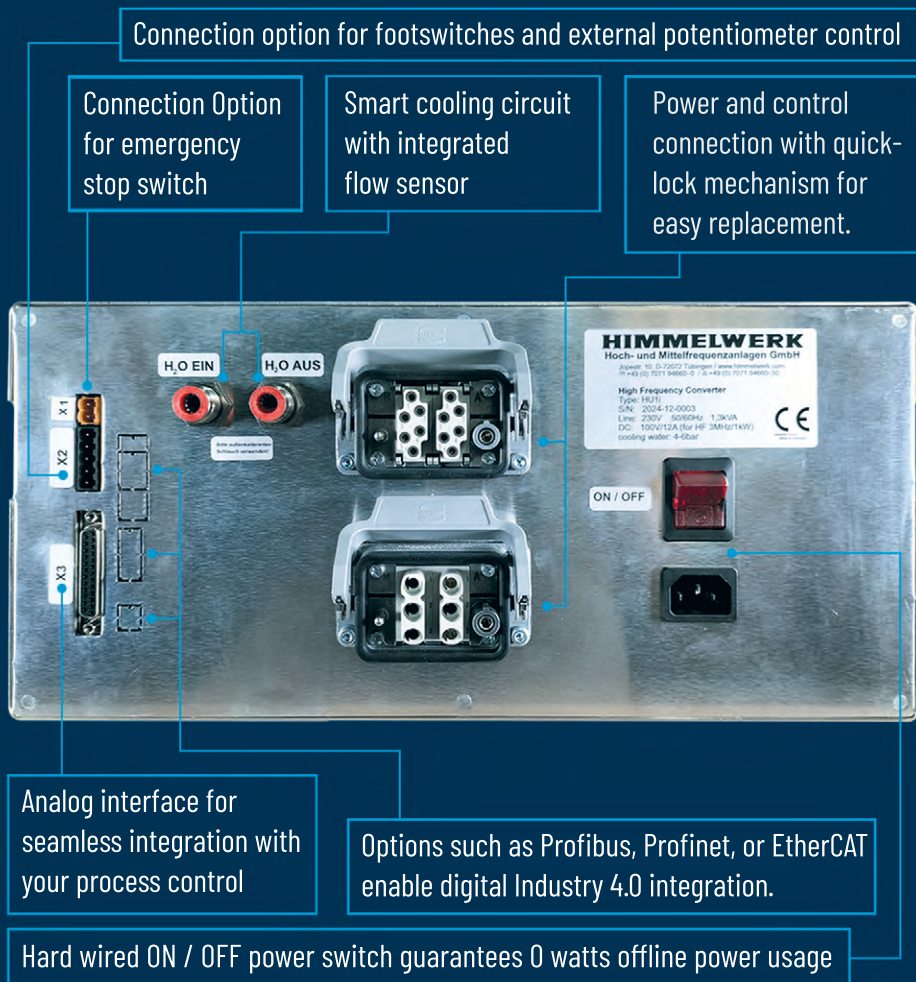
At a frequency of 3 MHz the HU 1i already reaches penetration depths broadly comparable to those of tube-based converters. Consequently, the majority of these processes can be realized using a significantly more cost-effective, transistor-based unit without compromising the performance.



The robust user interface and a range of industry standard connectivity options (e.g. Ethercat, Profibus, Profinet etc.) allow for smooth operation and deep integration for process automation and production lines.

And with its quick boot time of just two seconds the device is immediately ready for use.

MEGAHERTZ. HU 1i



WHY HU 1i?

Highest Frequency
Delicate Workpieces
100% Duty Cycle

The HU 1i is a processor-controlled high-frequency generator for inductive heating in the Megahertz frequency range.

Thanks to state-of-the-art transistor technology, the HU 1i operates at frequencies between 1 and 3 MHz. The use of premium components ensures a continuous 100% duty cycle – even at the full 3 MHz.

Its high-frequency range makes it ideal for heating the smallest and most delicate components, such as battery or sealing foils, electronic and medical products, or for use in semiconductor manufacturing processes.

Especially in the sub-millimeter range – where most devices lack the precision needed for accurate control – the HU 1i stands out by delivering the necessary finesse.

TECHNICAL DATA

HU 1i

OUTPUT		INPUT	
HF-Power	1,0 kW	1,1 kVA	Mains Power
Frequency	1,0 - 3,0 MHz	230 V +/- 10% + PE	Mains Voltage
		50 / 60 Hz	Frequency
COOLING WATER		WEIGHT	
Flow rate	3 l/min	15,0 kg	Converter
Input pressure	< 6 bar	6,0 kg	Outer circuit
Pressure difference	> 3,5 bar	DIMENSIONS (W x H x D) in mm*	
Temperature	18 - 30 °C		
		380 x 180 x 370	Converter
		120 x 120 x 250	Outer circuit

*Housing dimensions without handles and connectors



ANY QUESTIONS REGARDING THIS PRODUCT?
FEEL FREE TO CONTACT US. WE ARE HAPPY TO HELP.

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