SERIES HU

HU 3*i*

CONVERTERS FOR INDUCTION HEATING PROCESSES

High-frequency converters
3 kW / 0,25 - 1,0 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 reproducability and smart controls lead to lower defect rates

Induction is climate friendly

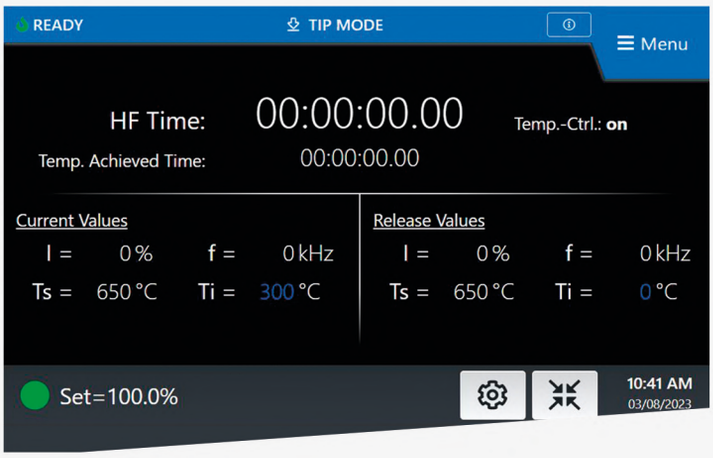
Lower energy consumption, higher yields and the option to use green electricity assure a considerably smaller carbon footprint

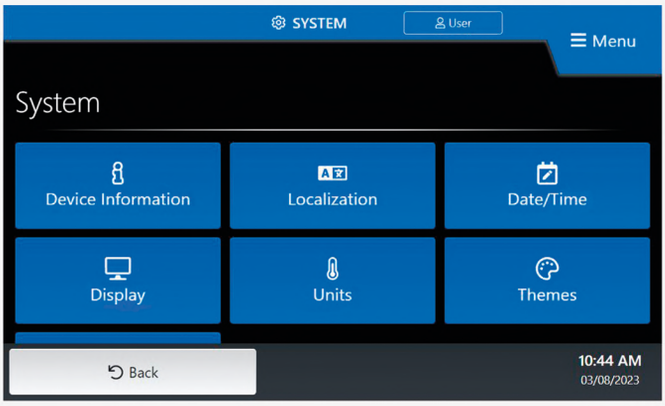
APPLICATIONS OF INDUCTION

- 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!



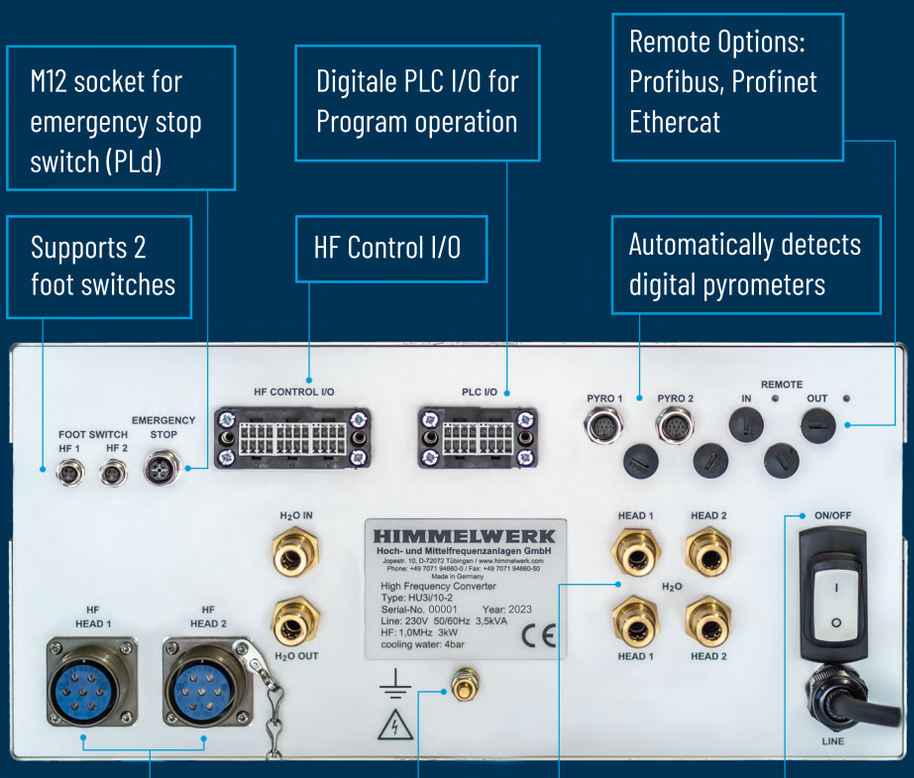
The HU 3i is our inherently smart inverter for induction in the high frequency range up to 1 MHz and a power output of 3 kW. Thanks to self-learning process monitoring and an intelligent temperature controller, the desired result is automatically achieved with the best parameters. And with its Fast-Wake / Standby mode, the system is ready for operation in just under 2 seconds.





A modern, barrier-free touch interface and user-based individual customization options support a frictionless operation of the device and allow the programming of an autonomous, complex programmatic operation (with up to 30 program steps) including the control of third-party devices within your production line.

SMART. THE HU 3*i*



WHY HU 3*i*?

More efficiency
Faster cycle times
Lower defect rates

Thanks to modern microprocessor technology, the HU 3i has the ability for autonomous, self-learning process monitoring. Together with the option to output a signal to the rest of the production, the HU 3i can accelerate the average cycle time. If one of the monitoring parameters is not reached or exceeded, the HU 3i can immediately halt production, and thus save valuable time and simultaneously avoid unnecessary waste.

Through the built-in USB port software updates and up to 30 different operating programs can be loaded comfortably and be easily accessed through the touch interface.

An IP54 rating, multiple water-, pressure- and temperature sensors, as well as compatibility with regular tap water, round off the HU 3i with exceptional reliability, even at a 100% duty cycle.

TECHNICAL DATA

HU 3*i*

OUTPUT	
HF-Power	3,0 kW
Frequency	0,25 - 0,55 / 0,55 -1,0 MHz
INPUT	
Mains Power	3,5 kVA
Mains Voltage	230 V +/- 10% + PE
Frequency	50 / 60 Hz
COOLING WATER	
Flow rate	2 - 3 l/min
Input pressure	< 6 bar
Pressure difference	> 3,5 bar
Temperature	18 - 35 °C
DIMENSIONS (W x H x D)	
Converter	406 x 197 x 454
Outer circuit	62 x 95 x 173
WEIGHT	
Converter	20,0 kg
Outer circuit	2,8 kg

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

Himmelwerk
Hoch- und Mittelfrequenzanlagen GmbH
Jopestr. 10, 72072 Tübingen
Germany

+49 (0) 7071 9466-0

sales@himmelwerk.com

Find all our products on
www.himmelwerk.com

