

SERIES HU

HU 5i

CONVERTERS FOR INDUCTION HEATING PROCESSES

High-frequency converters
5 kW / 0,1 - 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**

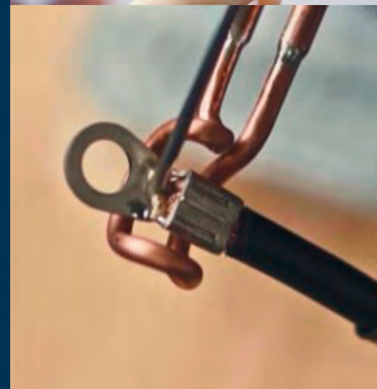
Perfect reproducibility and smart controls lead to lower defect rates

Induction is **climate friendly**

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

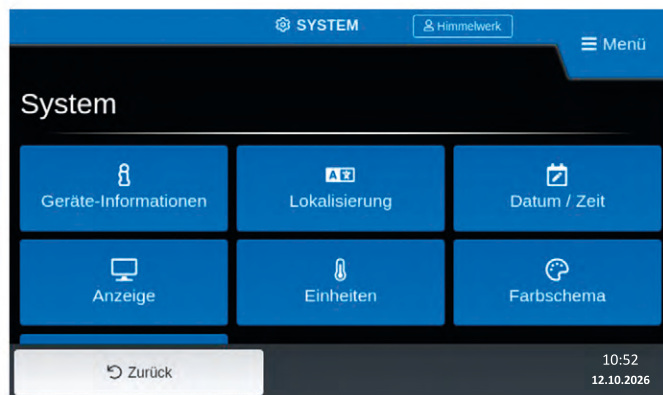
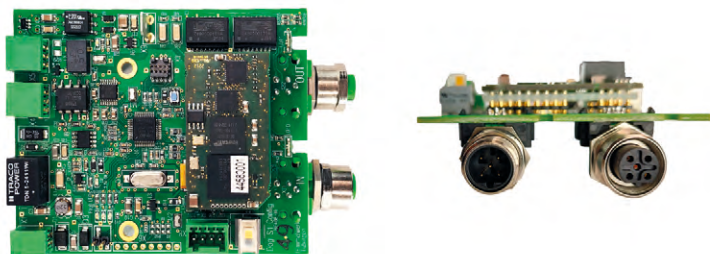
APPLICATIONS OF INDUCTION

- 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 5i is another cornerstone of our compact HF-converter class. With its 5 kW of true output power and a solid base configuration, it is one of the most affordable units in our line-up. For many processes with small parts, an overall low mass to be heated, or processes that do not need the higher power output, the HU 5i is ideal and reliably delivers outstanding results – even at 100% duty cycle.

For the special demands Industry 4.0 places on device connectivity today, we have developed options for a variety of modern interfaces, so the HU 5i can, when needed, be seamlessly integrated into your production control.



The operating interface has been completely overhauled for the HU 5i and now offers a modern 7" touch display, user management with customizable user profiles, many language options and adjustable brightness including a dark mode, while at the same time maintaining glove compatibility via the redundantly functioning ClickWheel.

RELIABLE. HU 5i

Analog interface option
for easy integration into your
process control systems

incl. pin outs for pedal switch
and potentiometer

Option for additional
water pressure sensor

IR-log option plots
pyrometer data as
an intuitive chart

Options for
Profibus,
Profinet and
Ethercat
allow for
industry 4.0
integration

Emergency stop
connection option

Digital pyro-
meter control

Direct electrical grounding connector

Option for two
outer circuits

Hard wired
ON/OFF switch:
0 Watts offline
power draw

Smart cooling loop with integrated temperature- and water pressure sensors

WHY HU 5i?

High Frequency
Solid base configuration
Many optional features

Based on modern transistor technology, the HU 5i can be operated at working frequencies up to 1.0 MHz, making it ideal for a wide range of delicate tasks. The HU 5i is used, among other things, in soldering, coating, drying, or sealing processes. For example, it can be used during film coating, for soldering eyeglass frames, or during the heat treating of screw threads.

In its base configuration, the HU 5i comes with integrated pyrometer detection, stepless control of output power, and – thanks to its IP31 rating – it is sufficiently protected against the most common risks from dust and moisture in your production facilities.

With options for autonomous program operation and for a self-optimizing temperature controller, it is ready for the complex manufacturing landscapes of our time.

The HU 5i is also available in system integrator and machine builder variants.

TECHNICAL DATA

HU 5i

OUTPUT		INPUT	
HF-Power	5 kW	6 kVA	Mains Power
Frequency range 1	0,10 MHz - 0,25 MHz	3x400V/480V ±10% / PE	Mains Voltage
Frequency range 2	0,25 MHz - 0,55 MHz	50 / 60 Hz	Frequency
Frequency range 3	0,55 MHz - 1 MHz		
COOLING WATER		WEIGHT	
Flow rate	3 - 4 l/min	26 kg	Converter
Input pressure	4 - 6 bar	2,8 kg	Outer circuit
Pressure difference	> 3,5 bar		
Temperature	18 - 35 °C		
		DIMENSIONS (W x H x D) in mm*	
		380 x 317 x 370	Converter
		62 x 95 x 129	Outer circuit

*Case dimensions without handles and connectors



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

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