# SERIES HU

# HU 5*i*

## 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

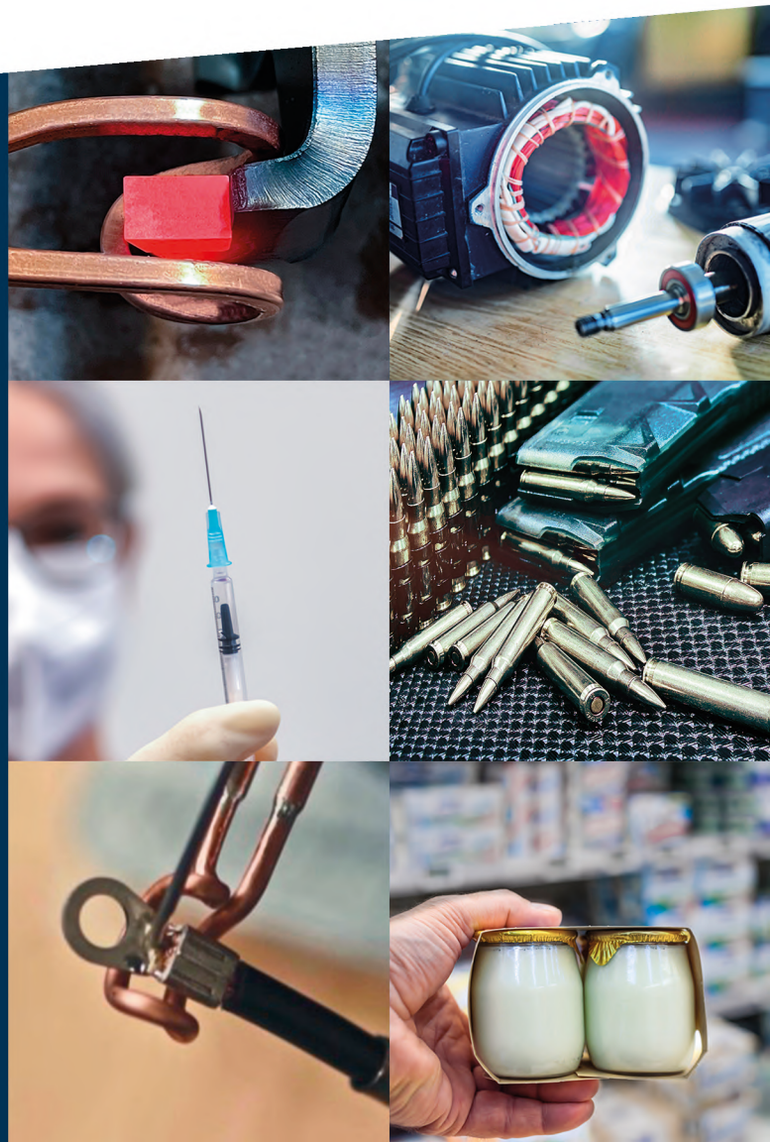
Perfect reproducability and smart controls lead to lower defect rates

## Induction is climate friendly

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

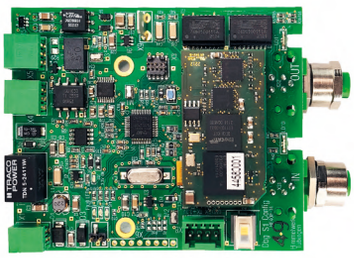
# APPLICATIONS OF INDUCTION

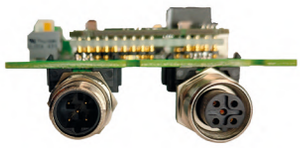
- Heat treatment (hardening, annealing, tempering)
- Brazing and soldering
- Joining (shrinking)
- Forming and forging
- Surface treatment (drying, preheating)
- Indirect heating
- Melting
- Sealing
- Special solutions (glueing, plasma generation, crystal growing, nano particles, materials measuring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

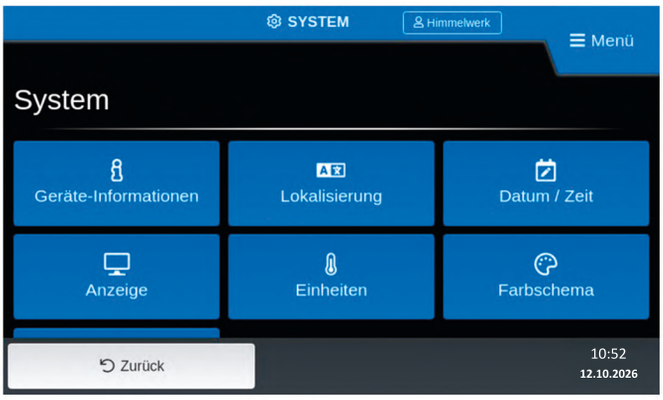


The HU 5i is another cornerstone of our compact HF-converter class. With its 5 kW of true output power and a solid base configuration, it is one of the most affordable units in our line-up. For many processes with small parts, an overall low mass to be heated, or processes that do not need the higher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

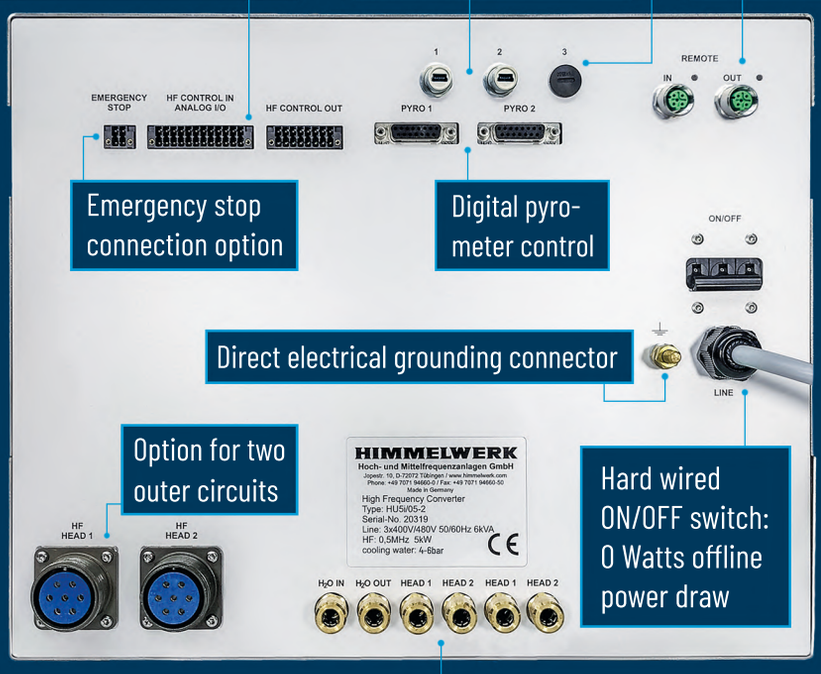
Analog interface option for easy integration into your process control systems

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 pyrometer 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 5*i*?

### 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 5*i*

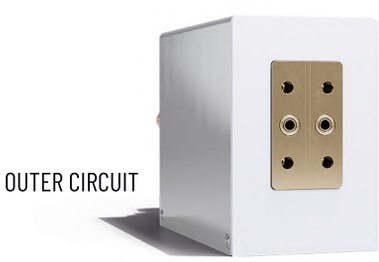
| OUTPUT | |
|---|---|
| HF-Power | 5 kW |
| Frequency range 1 | 0,10 MHz - 0,25 MHz |
| Frequency range 2 | 0,25 MHz - 0,55 MHz |
| Frequency range 3 | 0,55 MHz - 1 MHz |
| **COOLING WATER** | |
| Flow rate | 3 - 4 l/min |
| Input pressure | 4 - 6 bar |
| Pressure difference | > 3,5 bar |
| Temperature | 18 - 35 °C |

| INPUT | |
|---|---|
| 6 kVA | Mains Power |
| 3x400V/480V ±10% / PE | Mains Voltage |
| 50 / 60 Hz | Frequency |
| **WEIGHT** | |
| 26 kg | Converter |
| 2,8 kg | Outer circuit |
| **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




CONVERTER



OUTER CIRCUIT

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

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