

HIMMELWERK

Induction. Heating. Solutions.



High and Medium Frequency Systems

Cutting Edge Technology for
Induction Heating Processes

Induction heating

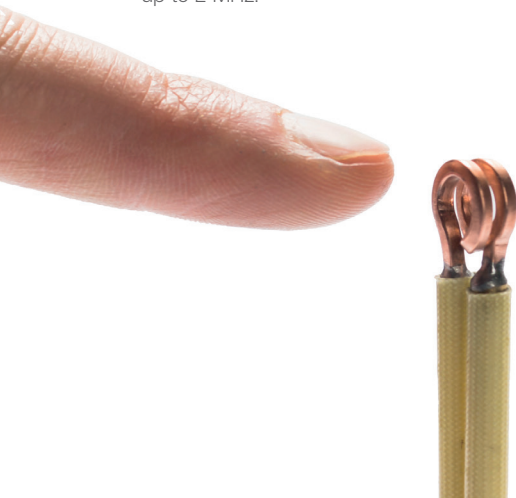
Induction heating does not involve the external application of heat, but rather the internal generation of heat in the workpiece itself. This process dispenses with long heating periods and enables the limited introduction of heat in a local and precisely timed manner, thus achieving a high degree of efficiency and maximum exploitation of energy.

When compared with conventional heating methods, induction heating achieves maximum levels of quality and efficiency across a practically unlimited range of applications.

Cutting edge technology

Use of modern modular power electronics enables time and cost-efficient production in manufacturing across the entire performance range. This is achieved with a freely programmable microprocessor control which acts as an electronic interface to your machines and provides a maximum degree of flexibility in signal and program exchange.

Improved design enhances the stability of systems and reduces the installation space required to a minimum. 2005 saw the expansion of our range to include a new innovation: a previously unachievable increase in the operating frequency of semiconductor devices by up to 2 MHz.



1879 ▪ Gottlob Himmel, a master mechanic from Tübingen, establishes a „mechanical and optical“ business.

1950 ▪ A new business division for the production of high-frequency generators is founded.

2019 ▪ Himmelwerk customers are working with our solutions in more than 70 countries all over the world.



Our products

HIMMELWERK offers you the advantages of inductive heating and produces efficient high and medium frequency systems operating within a performance range between 2 and 250 kW and frequency range between 4 kHz and 2 MHz. Modern high frequency converters can be easily integrated in manually-charged, semi and fully-automatic production processes with high output rates. They are also utilised in the production. In addition to transistorised HF and MF converters and tube generators, the highly diversified production range for the equipping of complete plants also encompasses temperature controllers and cooling water recoler systems, inductors and process tools series.

Our fields of application

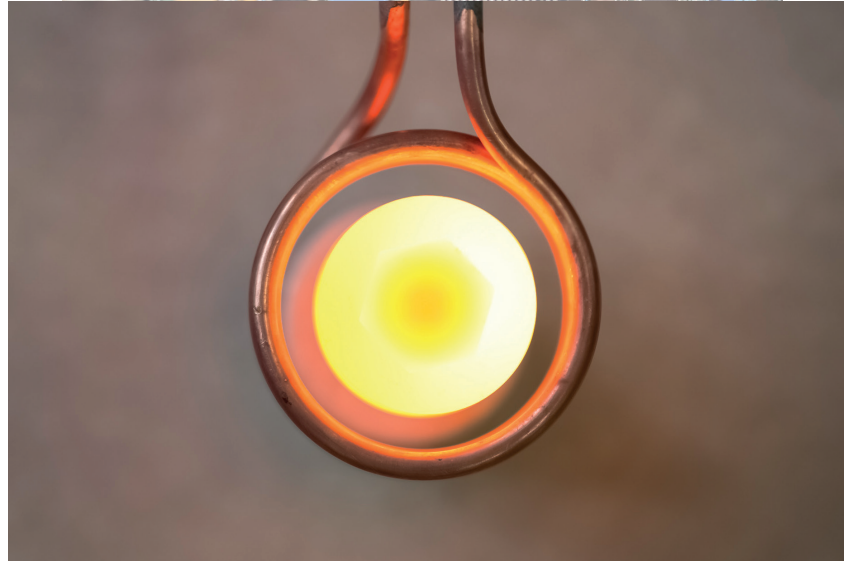
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|--------------------|--------------------|--------------------|----------------------|
| ✓ Brazing | ✓ Hardening | ✓ Shrinkage | ✓ Pre-Heating |
| ✓ Soldering | ✓ Annealing | ✓ Smelting | ✓ Drying |
| ✓ Tempering | ✓ Forging | ✓ Sintering | ✓ Sealing |

Process development. Commissioning. Maintenance.

The realisation of special heating tasks proves to be as flexible as the application range. Suitable parameters are established in the initial phase, with experienced technicians determining these on the basis of complex calculations which include temperature, weight, tool (coil or inductor) and the necessary power for your special applications. A product is selected from our range or manufactured to suit your requirements on the basis of this data and on completion of extensive tests.

Preparations for commissioning (connection, establishment of the power supply for machines and configuration of control functions) are, where required, realised on site by our technicians, and the system is transferred to the customer as a turnkey unit.

Optimum preparatory work enables the user to then independently operate high and medium frequency systems on site without additional assistance.



Our technicians can provide you with the necessary support for maintenance and continuous adaptation and optimising of systems. This ensures the satisfactory utilisation of induction heating on a continuous level.

Product range

- High Frequency converter, frequency range between **50 kHz – 2 MHz**, power range **2 – 250 kW**
- Medium Frequency converter, frequency range between **4 – 50 kHz** and power range **5 – 250 kW**
- Inductors in special design following the application
- Infrared thermometer for measuring/controlling
- Cooling water re-cooler
- Process tools
- High Frequency tube-generators (inductive/dielectric): frequency and power on demand



How to contact us

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Quality Management according to ISO 9001:2015