

Induction heating from
TRUMPF Hüttinger

Generators for
reliable processes.



TRUMPF Hüttinger
generating confidence

Playing big when going small.



No job too big. Or too small.

Most materials that conduct electricity will heat up when exposed to a high-frequency magnetic field. By induction, energy can be rapidly and precisely transferred into the work piece without physical contact with the source. The result is a fast and efficient heating process that can be performed in a variety of environments, even vacuum.

Induction is the heating method of choice for applications such as surface hardening, brazing, bonding and crystal growing. And, because induction does not heat non-metallic materials and does not need to touch the part, it is an ideal solution for container sealing. generators from TRUMPF Hüttinger provide robust, reliable and stable performance even in the harshest of production environments. Every generator from TRUMPF Hüttinger reflects decades of expertise in customer-oriented solutions.



TRUMPF Hüttinger– development partners for industry

Induction heating is an energy-efficient process that permits short cycle times. You would be challenged to find an industry that doesn't use induction heating, whether it requires fast heating of simple parts or the precise heating of complex geometries. TRUMPF Hüttinger meets customer-specific demands rapidly and precisely with customized solutions based on our standard products.

Markets:

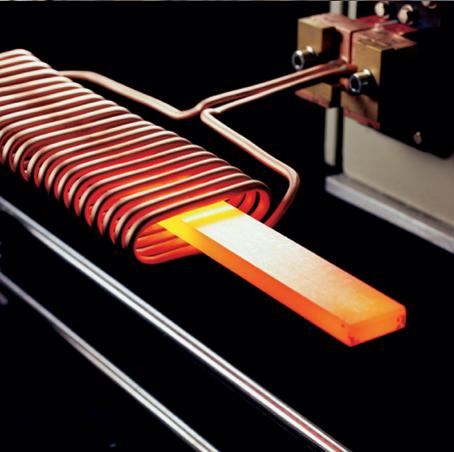
- Mechanical engineering
- Packaging
- Automotive
- Medical technology
- Glass industry
- Science and research

Our application laboratory

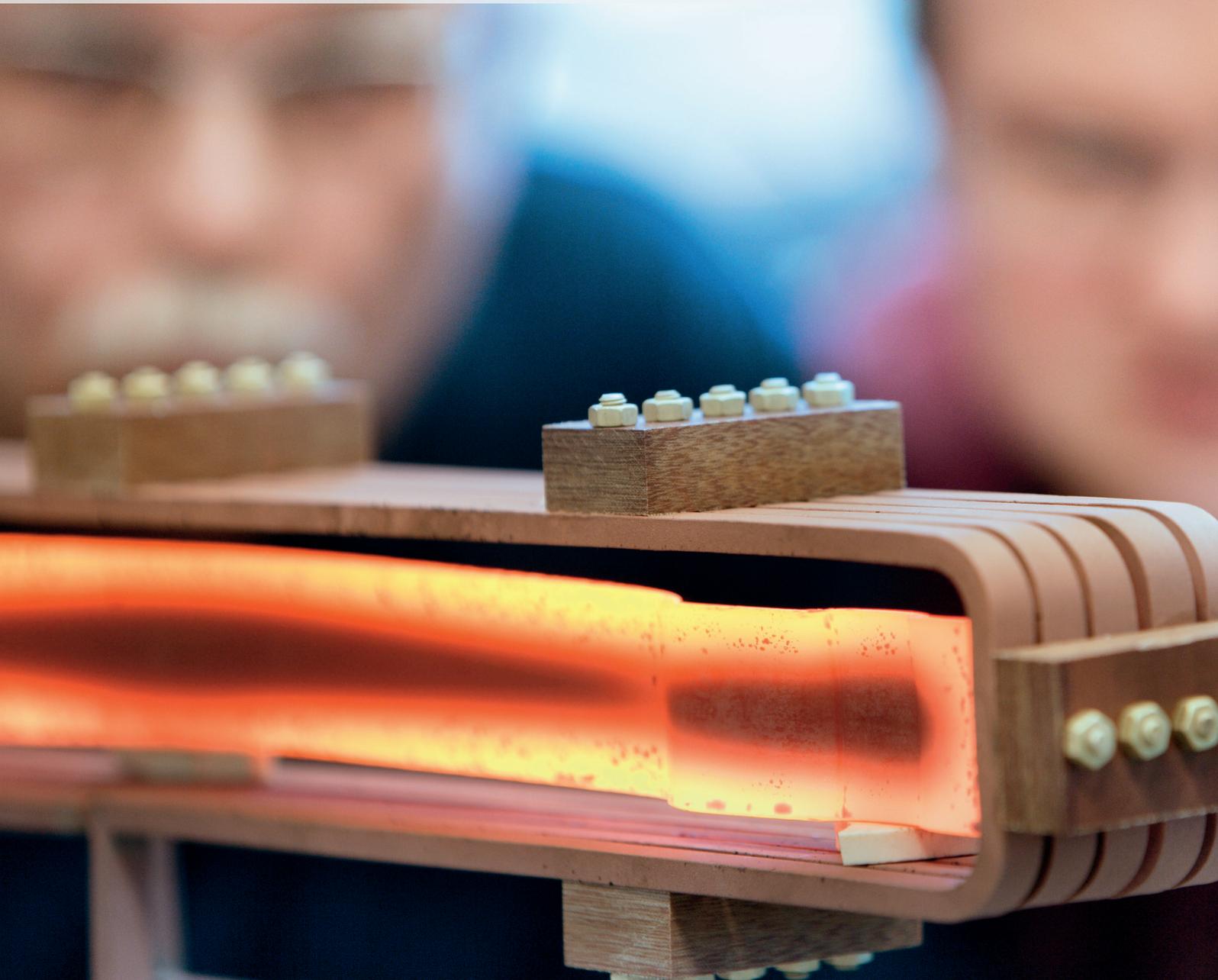
Our application laboratory in Freiburg, Germany, supports you by finding the right heating solution for your process. The team's advice, its developments and testing save valuable time-to-market.

Applications:

- Hardening, annealing, tempering
- Heating
- Heating cables
- Melting
- Shrinking
- Drying
- Gluing
- Sealing
- Tube welding



Versatility and specialization in a single device.



An induction solution for virtually every heating process.

TRUMPF Hüttinger offers a proven range of products for all heating processes in industrial production: from compact modules, via 19-inch rack versions or table-top devices to system solutions in stand-alone cabinets. The wide range of outputs and frequencies provided by our standard devices enable you to reliably and economically heat complex parts precisely and repeatedly.



TruHeat MF Series 3000 / 5000 / 7000 – the flexible ones
MF generators with high process reliability; the powerful and dependable solution for numerous industries. Designed in versatile parallel-resonant circuit technology.

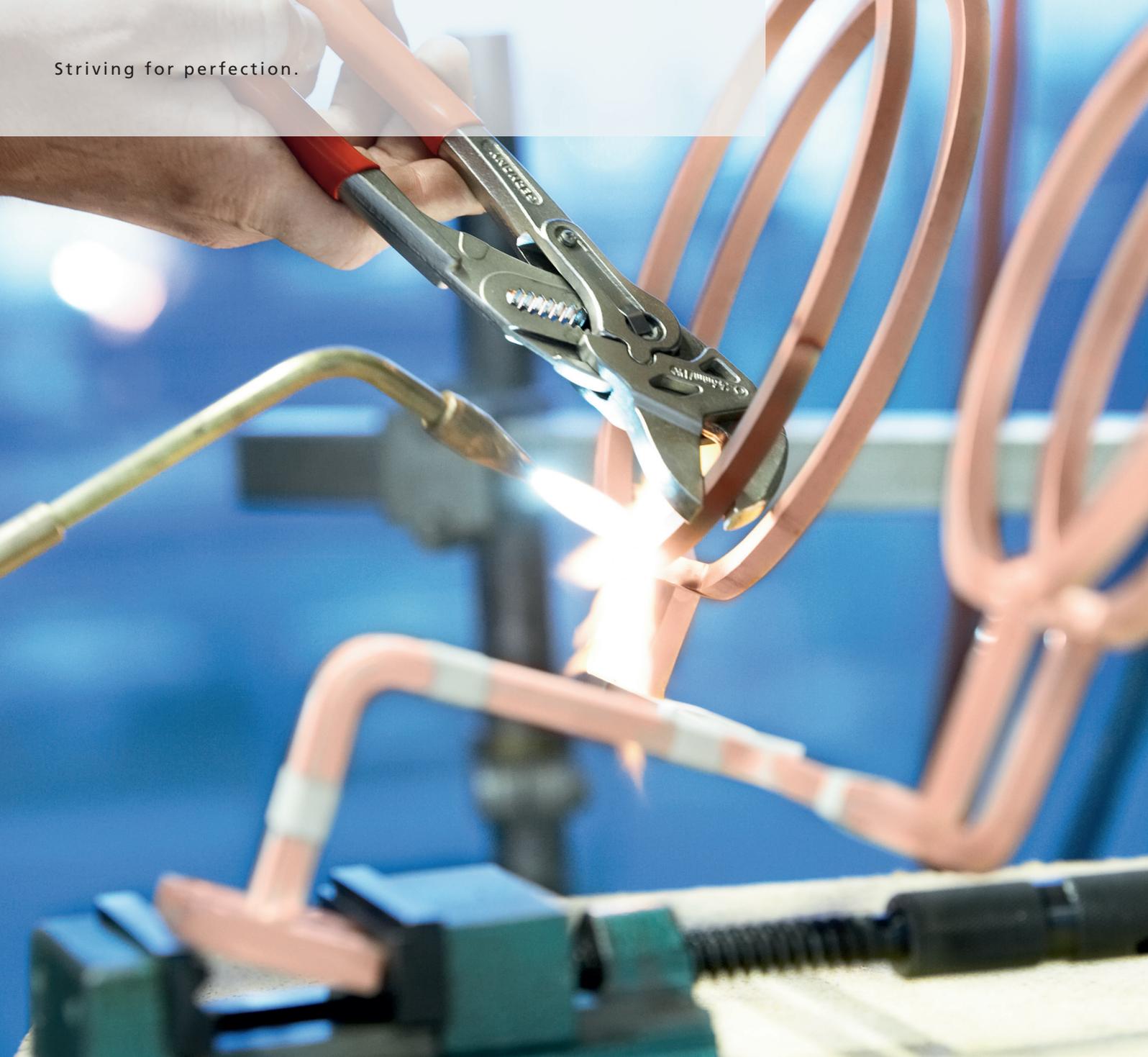
TruHeat MF Series 7000 (G2) – the combination makes it unique
The TruHeat MF Series 7000 (G2) combines the best product features known in the market – from a high efficiency factor in a small installation space over highly modern interfaces to an intelligent cooling concept.

TruHeat HF Series 1000 / 3000 / 5000 – the compact ones
Compact HF generators, ideal for treating even the smallest of components. Equipped with an extremely broad frequency range. Available as a module, 19-inch rack version and table-top device.

TruHeat HF Series 7000 – the ultimate ones
HF generators utilizing proven tube technology provide high outputs at high frequencies. Optimum for demanding heating processes.



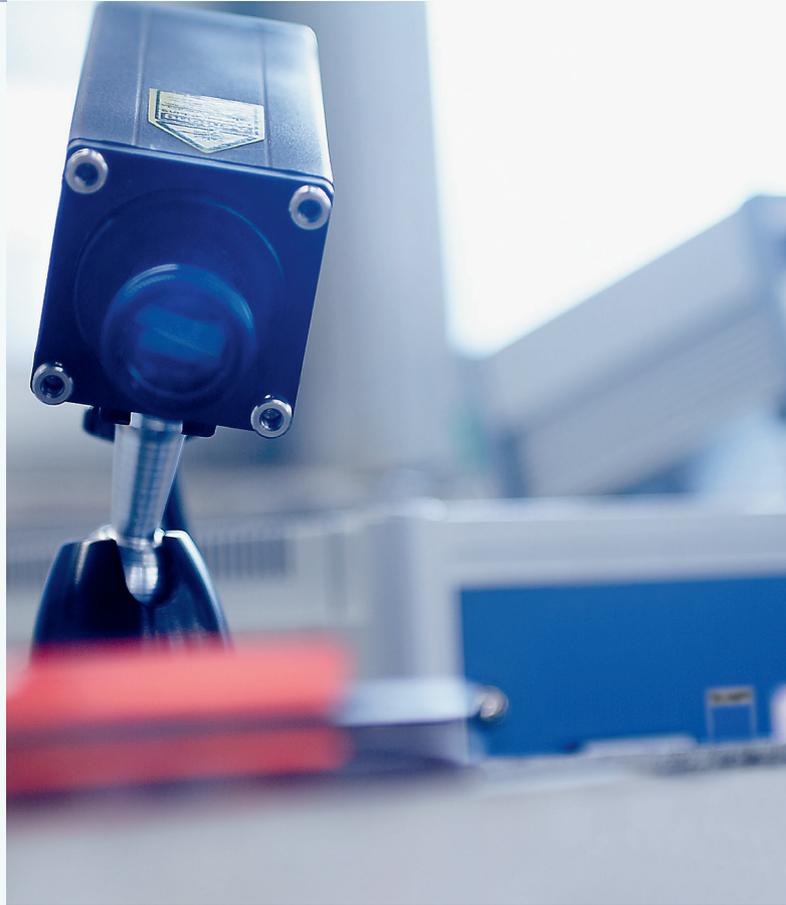
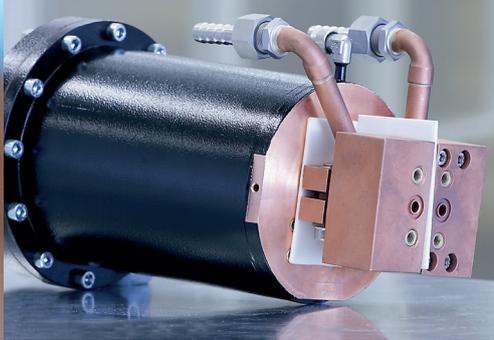
Striving for perfection.



Not just accessories but critical parts in the heating process.

Generators from TRUMPF Hüttinger with their external circuits are certainly the heart of an induction heating process. But a functional and comprehensive system requires more key components to ensure reliable and optimal performance. Coaxial transformers, chillers and pyrometers are often needed. By specifying TRUMPF Hüttinger for these items, you can benefit from our integrated system design.

Particularly important is the inductor, the element responsible for transferring the generator's energy into the work piece. TRUMPF Hüttinger's expertise of induction heating theory and practice allows us to design the perfect inductor for your application.



Inductors

Custom-designed for your application; the name TRUMPF Hüttinger stands for manufacturing excellence.

Coaxial transformers

Optimized matching for low-impedance applications. Exploits the generator's power to the maximum.

Water Chillers

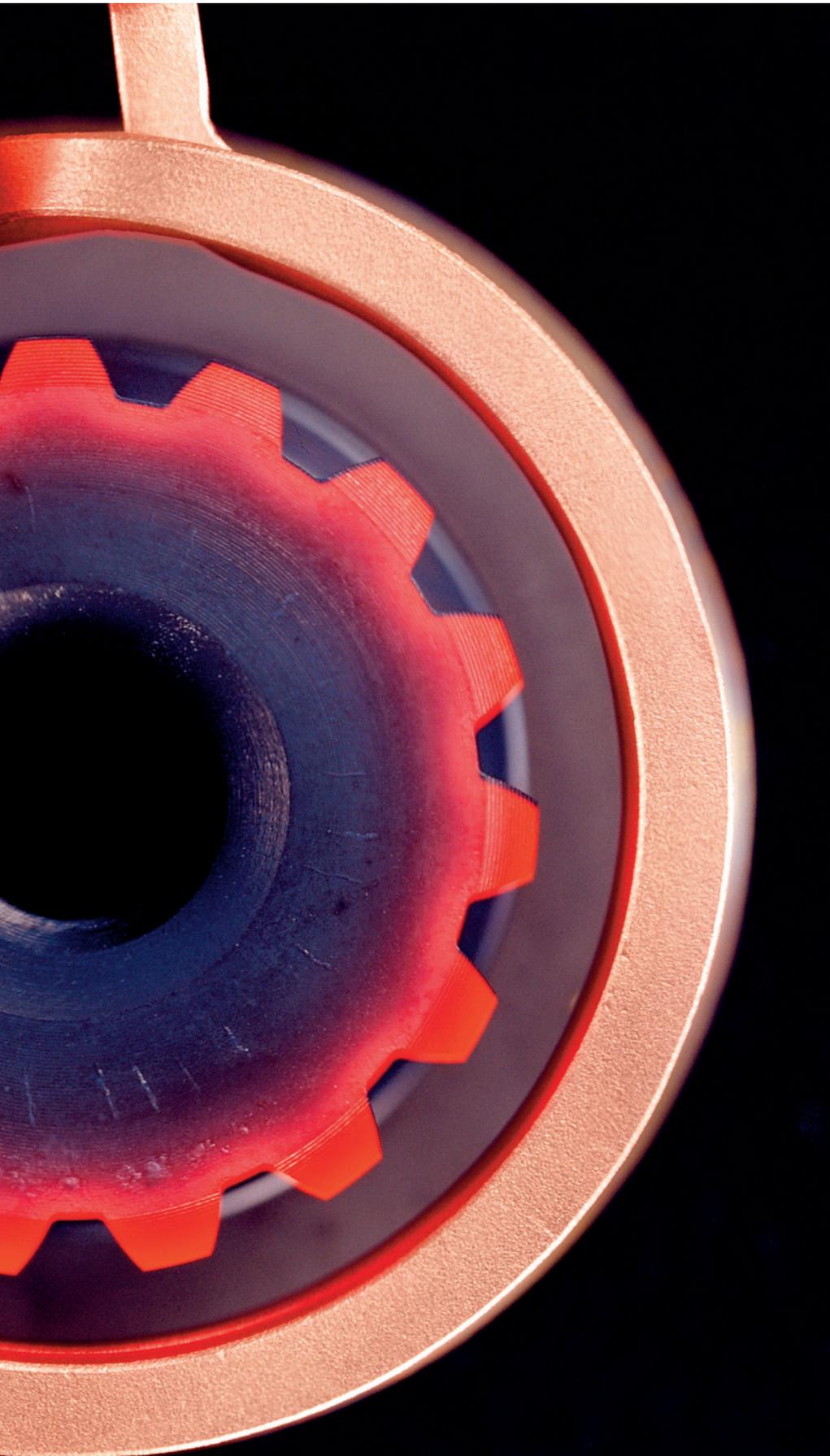
High temperatures need controlled cooling. Our chillers provide the necessary facilities for safe and reliable operation of the generator and coil.

Pyrometer and Controllers

Reliable temperature detection and fast response to even small temperature changes result in more consistent process results and better yields.

A full line of induction generators.

Powerful, wide matching ranges, superior process reliability:
Generators from TRUMPF Hüttinger meet every challenge; across the spectrum.



TruHeat MF Series 3000 / 5000 / 7000



Powerful MF generators with output ranges from 10 kW to 40 kW. Excellent process reliability covers a wide spectrum of applications. High productivity for hardening and melting in many metal-heating applications. For use with high outputs and medium frequency.

Output	10 kW – 40 kW
Frequency	5 kHz – 200 kHz
Interfaces	Analog/Digital RS 232/485 PROFIBUS

Expertise and experience ensure success.



We invite you to join us in exploring new territory.

TRUMPF Hüttinger is a pioneer in power conversion. Our expertise has enabled customers around the world to perfect existing processes and create exciting new ones. We stand ready to supply you with the technology you need to compete in today's business environment. Rely on our expertise to help bring innovative products to market quickly, efficiently and cost-effectively. Depend on our products for years of trouble-free operation and unsurpassed performance.



Complete process control, convenient operating features and high efficiency – these are the benefits of the new induction generators from the TruHeat MF Series 7000 (G2).

The new product family comes with a power output of 60 to 240 kilowatts in a frequency range of 0,5 to 200 kilohertz while boasting a captivating user-friendly control concept. Further highlights include the high power density, the intelligent cooling concept as well as the high peak efficiency of over 90 percent which makes these generators not only environmentally friendly, but also easy on the budget.



