



MADE IN GERMANY
40 YEARS OF EXPERIENCE

Inductive solutions for your heat treatment

Forward-looking and cost effective induction technology

WELDOTHERM® GmbH is your specialist for high-quality heat treatment technology "Made in Germany" and is one of the leading manufacturers of induction heat treatment units for controlled heat treatment.



Induction Heat Treatment Units

VAI-series

These trendsetting induction heat treatment units generates the heat in the material at a depth of 2 to 3 mm, which accelerates the heating process significantly. Further advantages are that the surface is not overheated and tooling-up times are minimised.



- Integrated data logger
- PLC control with touchscreen monitor
- 40 kW, 80 kW, 160 kW or higher power
- Non-contact preheating
- Units can be coupled together
- Integrated air or water cooling
- Unrivalled value for money

Technical data		VAI 40	VAI 80	VAI 160
Power at 100% duty cycle		40 kVA	80 kVA	160 kVA
Primary connection values voltage / current / frequency		400 / 460 VAC 63 A 50-60 Hz	400 / 460 VAC 125 A 50-60 Hz	400 / 460 VAC 250 A 50-60 Hz
Primary connection cable length / cross-section / plug		5m / 4 x 16 mm ² CEE63	5m / 4 x 35 mm ² CEE125	Fixed connection
Secondary connection values voltage / current / frequency range		700 VAC / 400 A 5...18 kHz	1000 VAC / 750 A 4...10 kHz	1000 VAC / 1000 A 3...8 kHz
Weight		219 kg 239 kg	279 kg 330 kg	370 kg
Dimensions	Height (mm)	1500 1690	1500 1690	1690
	Width (mm)	560	560	750
	Depth (mm)	750	750	970



Coil inductors

WELDOTHERM® produces coil inductors, which can be used for all kinds of different applications. We manufacture **not only air-cooled but also water-cooled inductors** for temperatures **up to 1250 °C**. Different connectors ensure **compatibility with the units and systems of MILLER** and other manufacturers.



Compatible connectors for "Miller PROHEAT 35"



Air-cooled coil inductor



Water-cooled coil inductor



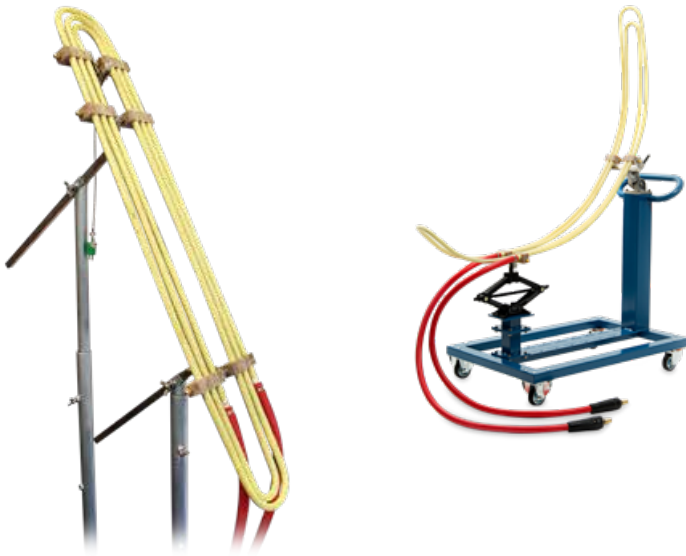
Flexible coil inductors are especially suitable for preheating or stress-relieving of pipes or other components.



Shrink removal of a rotor from the shaft.

Fixed inductors

Fixed inductors are special inductors, which are tailor-made for individual applications. They comprise a copper pipe with anti-kink protection and are sheathed with special VITON-KEVLAR insulation. They are suitable for **non-contact preheating of components up to 500 °C**. Typical applications are the preheating of rotating vessels and rollers.



Air-flex inductors

With our air-flex inductors for **non-contact heating by means of air-cooled inductors and the special segmental design**, you are able to achieve rotating heating of all kinds of different diameters from 1000 mm up to, for example, 18.000 mm.



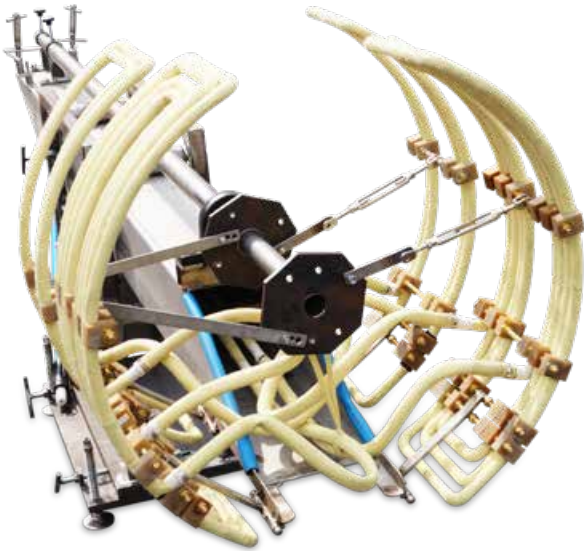
Several inductors can also be fixed onto a component to ensure uniform heating when hardfacing.



Heating from the outside with fixed inductors of rotating pipes.

Customized inductors

Some workpieces are too large or have very narrow and angular designs that make them unsuitable for heating with conventional inductors. Our customized inductors tackle any challenge. **For example, as nozzle inductors for preheating in large-scale vessel building.**



Customized inductor for internal nozzle heating.



Customized inductor for external nozzle heating.



Stress-relieving of a pressure vessel final weld.



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