

ENRX

Minac<sup>®</sup>

MOBILE INDUCTION HEATING EQUIPMENT



# Take the heat with you.

Minac is our family of mobile and versatile induction equipment, ideal for jobs as brazing, curing, hardening, shrink-fitting and straightening. Minac equipment can be fitted with various coils and coil fixtures, single or twin output, flexible cables, closed or separate cooling systems and specially designed heating cables. There are also special tools for bolt expansion and coating removal. We equip the Minac to fit your need.



### Mobile and flexible

You can move your Minac around a workshop or factory floor or easily load it into a car and transport it to work sites. It can be fitted with a practically limitless range of coil designs and coil fixtures, flexible cables, closed or separate cooling systems, specially designed heating cables, etc.

### Ready to use

Plug the unit into the site's AC power supply, connect the cooling hoses and choose which inductor you want to use. Once fitted, the clear, menu-based and multilanguage control panel ensures maximum ease-of-use.

### Easy to operate

Handheld transformers (HHT) feature on/off and precise power controls. In fact, the HHT is as easy to operate as a regular electric drill. Flexible, water-cooled cables connecting the HHT to the converter allow easy access to workpieces.



# Mobile, flexible and easy to use

## Prepared for Industry 4.0

With easy updates to new features, your equipment is prepared for developments within advanced analytics and predictive maintenance, interconnectivity, condition monitoring and alarming, automation and real-time data, machine learning, and remote service and augmented reality

## Twin power outputs

Many models come in a Twin version, featuring two independent power outputs that can operate simultaneously.

## Complete range

Minacs are available with maximum intermittent output power of 10-220 kW (6-140 kW continuous) and a frequency range of 10-100 kHz. Higher-frequency Minacs—which combine high frequencies with small coils—are ideal for heating small, delicate, and complex workpieces.

## Robot compatible

Minac can be adapted to any robot, allowing quick, no-fuss integration into automated production lines. The HHT can easily be mounted on a robot arm.

## Maximum output power

With Minac's maximum power feature you can, for limited periods of time, operate with an output power far in excess of the continuous output power.

## 10-inch capacitive colour touch screen

- multi-language control panel
- side-by-side visualisation of twin outputs
- easy access to all system functions
- quick set-up
- full control of the induction parameters for your heating processes



## Multipurpose pistol handgrip

The handgrip supports three different sizes of handheld transformers. Easy trigger operation allows the operator to scroll through the various menus and select different modes. A small, easy-to-read LCD screen on the side of the grip, provides the operator with on/off status, temperature and heat cycle duration, a menu

choice and fault codes. The handgrip records and stores four different heating cycles of up to 99,9 seconds each. The cycles can be repeated with virtually zero deviations. The thermocouple, which can be conveniently plugged into the bottom of the handle, monitors, and controls workpiece temperature.

# An eco-friendly technology

Induction heating is an inherently clean process. It is far more energy-efficient than other heating alternatives. It does not emit carbon dioxide. It eliminates open flames, reduces the need for fuel and transport, and promotes safer, healthier workplaces.

## What is induction heating?

Induction heating is the process of heating electrically conductive materials, such as metals, by letting an alternating current create a magnetic field around a coil. When you place an object inside the coil, the object is immediately heated. The heat is generated into the object itself instead of by an external heat source via heat conduction.



## Fast

The produced heat in induction heating is instant. It takes less than one second to achieve a uniform surface temperature of 1,000°C on small metal components.

## Accurate

The right temperature is delivered precisely where it is needed. Customised coils ensure optimal heat patterns with minimal energy consumption.

## Controllable

Transistorised induction heating systems and process control software deliver complete control over the entire heating process.

## Repeatable

Induction heating can accurately repeat the desired heating cycle, including key parameters such as temperature, penetration depth and heat pattern.

## Clean, safe and compact

No gas, no open flames, no noticeable increase in ambient temperature and no excessive floor space occupied by furnaces.



# Minac<sup>®</sup> Series

## TECHNICAL DATA

Model	6/10	6/10 Twin	12/18	12/18 Twin	18/25	18/25 Twin	25/40	25/40 Twin	50/80	50/80 Twin	70/110	70/110 Twin	140/220
<b>Max. output power</b>	10 kW	2x10 kW	18 kW	2x18 kW	25 kW	2x25 kW	40 kW	2x40 kW	80 kW	2x80 kW	110 kW	2x110 kW	220 kW
<b>Continuous output power</b>	6 kW	2x6 kW	12 kW	2x12 kW	18 kW	2x18 kW	25 kW	2x25 kW	50 kW	2x50 kW	70 kW	2x70 kW	140 kW
<b>Supply voltage</b>	400-480 V	400-480 V	400-480 V	400-480 V	400-480 V	400-480 V	400-480 V	400-480 V	400-480 V	400-480 V	400-480 V	400-480 V	400-480 V
<b>Recommended fuse</b>	16 Amp	32 Amp	32 Amp	63 Amp	63 Amp	63 Amp	63 Amp	100 Amp	100 Amp	200 Amp	200 Amp	250 Amp	250 Amp
<b>Coolant SM (SH)*</b>	4 l/min (4)	8 l/min	6 l/min (14)	11 l/min	7 l/min (14)	13 l/min	14 l/min (19)	24 l/min	21 l/min	2x25 /min	25 l/min	2x25 l/min	50 l/min
<b>Weight SM (SH)*</b>	50 kg (50)	74 kg	52 kg (75)	76 kg	54 kg (77)	78 kg	60 kg (80)	86 kg	80 kg	290 kg	240 kg	290 kg	290 kg

\*SM = medium-frequency models, SH = high-frequency models

Subject to modification



# A family for every need

Minac is one of six product families within ENRX induction heating solutions. Together, these product families let you perform virtually any industrial heating task. In the unlikely event they don't meet your specific needs, we can sit down with you and devise your own customised induction heating solution.

ENRX also develops, commercialises and supplies mechanical handling equipment, coils and software control systems. We also offer a worldwide service program. To learn more about ENRX – and how we can help your business – please contact your nearest ENRX office.

- Sinac**<sup>®</sup> Universal heat generators
- Weldac**<sup>®</sup> High-output solid-state welders
- Minac**<sup>®</sup> Mobile heat generators
- Ventac**<sup>®</sup> Portable air-cooled induction heating system
- HeatLine**<sup>®</sup> Industrial heat processing systems
- HardLine**<sup>®</sup> Industrial heat treatment systems



More about our products, applications  
and the industries we serve.

Get in touch

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# About ENRX

ENRX is a global green tech company driven by induction. We offer induction heating, wireless inductive charging and contactless power supply with low or no carbon footprint for virtually any application within mobility and manufacturing.

THE RIGHT ENERGY CAN TAKE YOU ANYWHERE • [ENRX.COM](https://enrx.com)

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