



# Minac®

Mobile heat generators



# Introducing the Minac



Mobile, flexible and easy-to-use. The Minac brings the benefits of induction heating to tough-to-access workpieces.

The Minac range of complete mobile induction systems is even easier to use than its acclaimed predecessor. A ready-to-use system, all that has to be done upon delivery is: 1) attach a coil, 2) connect supply voltage, 3) connect cooling water. In models with closed cooling systems, only the supply voltage needs connecting.

Once installed, the Minac's clear, menu-based and multilanguage control panel ensures maximum ease-of-use. Moreover, this simplified control/user interface is common to all Minac equipment.

Many Minac models come in 'Twin' versions offering two independent power outputs. The Twin versions feature split control panel displays—one for each power output.

Minac is simple 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.

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## FIVE KEY BENEFITS

### **Minac increases throughput.**

Fast, easy, accurate and repeatable heat delivery improves productivity.

### **Minac improves quality.**

Minac's microcontroller feature lets you pre-set temperatures and ramp-up and dwell times. Precise repeatability of heating cycles is assured.

### **Minac is environment friendly.**

No flames, no gas and virtually no radiant heat mean a more comfortable, more productive working environment. Good news for the natural environment, too.

### **Minac lets you do more.**

Minac's mobility and application versatility let you perform practically any heating task.

### **Minac reduces costs.**

Precise heat delivery means you get things right the first time. Scrap, re-working and energy costs are minimized.

# Meet the Minac

The Minac range can heat practically any electrically conductive material: copper, aluminum, steel, stainless steel, titanium, brass, etc. It can also be used with a wide variety of coils—even ‘one-off’ coils that have been tailored to your specific needs.

Packing more power into smaller cabinets has made the Minac more mobile than ever. This, together with integrated output matching (a feature standard to all Minacs), makes Minac ideal for a wide range of applications: brazing, shrink fitting, hardening, curing, straightening, heat treatment, etc.

Continuous automatic output matching ensures optimal power output for various heating operations, coils and materials. A wide range of different coil configurations can be used without having to change a converter’s set-up. Simply change the coil and keep on working. The operator does not even have to shut off the water supply during changes—the Minac does it automatically when the mains are turned off.

## The Minac range

Minac is available with maximum output power ranging from 10–220 kW at intermittent operation. Under continuous operation, the maximum output ranges from 6–140 kW. Minac systems have a standard frequency range of 10–25 kHz.



## MINAC SERIES TECHNICAL DATA

Model	6/10	6/10 Twin	12/18	12/18 Twin	18/25
Max. output power	10 kW	2x10 kW	18 kW	2x18 kW	25 kW
Continuous output power	6 kW	2x6 kW	12 kW	2x12 kW	18 kW
Supply voltage	400-480 V	400-480 V	400-480 V	400-480 V	400-480 V
Recommended fuse	16 Amp	32 Amp	32 Amp	32 Amp	63 Amp
Coolant	3.5 l/min	7 l/min	5 l/min	10 l/min	6 l/min
Weight	50 kg	76 kg	52 kg	76 kg	64 kg



### Mobile induction

Many Minac models are light enough to be carried in a normal car. You no longer have to transport workpieces to the induction system—often a costly and time-consuming process.



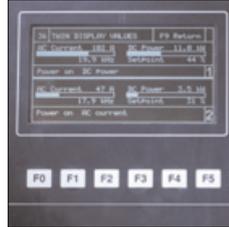
### Range of coils

Minac systems can be fitted with a practically limitless range of coil designs. EFD Induction are specialists at designing, testing and delivering customized, long-life coils.



### Twin power outputs

Many Minac models come in a 'Twin' version featuring two independent power outputs that can operate simultaneously under identical or different parameters.



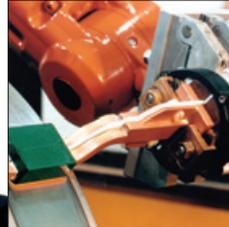
### Split display

Twin versions feature two independent control panels. Each displays data for its power output. Functionality is based on our specially designed microcontroller.



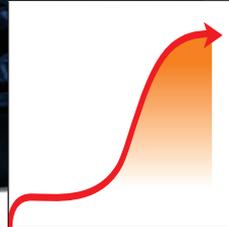
### Remote control

A remote control unit lets you control heating cycles via feedback to the microcontroller. Minac is available with field buses and is compatible with Profibus-DP, Interbus, Ethernet, etc.



### 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.



18/25 Twin	25/40	25/40 Twin	50/80	70/110	70/110 Twin	140/220
2x25 kW	40 kW	2x40 kW	80 kW	110 kW	2x110 kW	220 kW
2x18 kW	25 kW	2x25 kW	50 kW	70 kW	2x70 kW	140 kW
400-480 V	400-480 V	400-480 V	400-480 V	400-480 V	400-480 V	400-480 V
63 Amp	63 Amp	100 Amp	100 Amp	125 Amp	250 Amp	250 Amp
12 l/min	12 l/min	24 l/min	22 l/min	20 l/min	40 l/min	40 l/min
85 kg	67 kg	86 kg	80 kg	170 kg	200 kg	200 kg

## EASY. FAST. ACCURATE.

Minac's handheld transformers (HHT) combine maximum efficiency with maximum ease-of-use. Simply turn on, and accurately regulate power by pressing the trigger. Operator convenience is enhanced by sturdy hand grips and a removable support wire. The flexible connector cable allows easy, unhindered access to workpieces.



## MINAC AT WORK

Minac is mobile, you can move it around a workshop or factory floor when working on hard-to-reach workpieces. Many Minac models can be loaded into a car or van and transported to work sites.

On the left, Minac at work brazing generator windings.

On the right, a Minac is hardening dies.



# A family for every need

Minac is one of five product families from EFD Induction. Together, these product families let you perform virtually any industrial heating task. And in the unlikely event they don't meet your specific needs, we can sit down with you and devise your own customized induction heating solution.

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



## **Sinac**

Universal heat generators



## **Weldac**

High-output solid-state welders



## **Minac**

Mobile heat generators



## **HardLine**

Industrial heat treatment systems



## **HeatLine**

Industrial heat processing systems