

# Minac<sup>®</sup> 50/80 SM



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

**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.

\* The system shown is for illustrative purposes only. Coils and coil fixtures are optional extras.



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## PRODUCT FEATURES

### Mobile induction

Minac is 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.

### Advanced MMI

Minac features advanced Man/Machine Interface (MMI) control panels. Minac's clear, menu-based and multi-language control panel maximize ease-of-use. Functionality is based on our specially designed microcontroller. The coil can either be fixed in position, or operated manually when attached to a handheld transformer (HHT).

### 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, Devicenet, Ethernet. etc.

### Robot compatible

Minac can be adapted to any robot, allowing quick, no-fuss intergration 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.

## APPLICATIONS AREAS

Minac is ideal for a wide range of applications: brazing, shrink fitting, hardening, curing, straightening, heat treatment, etc. Minac is suitable for heating all kinds of electrical conductive materials like copper, aluminum, steel, stainless steel, brass, titanium, etc.

## TECHNICAL DATA

Model	Minac 50/80 SM
<b>Output</b>	
Continuous output power	50 kW
Max. output power	80 kW
Duty factor / cycle time	50%/10 min
Output power regulation range	2-100 %
Frequency range	10-25 kHz
HHT 400 power cable length	5 m / 10 m
<b>Supply</b>	
Supply voltage range	3 x 400-480 V $\pm$ 10%
Frequency	50/60 Hz
Nominal voltage	400 V
Nominal line current	89A (RMS)
Max. line current intermittent	134A (RMS)
Nominal apparent power	62 kVA
Maximum apparent power	93 kVA
Recommended fuse	100 Amp
Mains cable length	5 m

### Cooling

Water consumption, min.	21 l/min*
Water inlet temperature	max. 35°C
Water pressure min./max.	4.5 / 6 bar*
Cooling water quality - ph	between 7.0 and 9.0

### Enclosure

Ambient operating temp.	+5°C - +50°C
Outer dimensions (WxDxH)	345 x 708 x 453 mm
Weight with HHT 400 / 5m	80 kg (approx.)
Enclosure protection	IP 54
Color	RAL 7035 Grey
HHT 400 outer dimension (LxOD)	183 x 77 mm
HHT 400 weight without handle	6 kg

Subject to modification

\* Dependent of coil