

## Technical Data Sheet

### Induction Heater IH 045



#### Compact induction heater for bearings weighing up to 45 kg

The compact simatherm induction heater offers a working space of 114 x 160 mm for heating small to medium-sized rolling bearings and other ring-shaped metal parts. With the automatic time and temperature control, rolling bearings can be heated up to the 110°C specified by manufacturers, and other ring-shaped metal parts up to 180°C.

- Supplied with three yokes as standard
- Very compact design - including the yokes only 17 kg in weight
- Extendable bearing support for safe support of workpieces with large diameters
- Remote control via mobile devices via Bluetooth possible (only possible with app „World of Maintenance“!)
- 2 probe technology (Delta-T) to avoid mechanical stresses in the workpiece

#### Description IH 045



- 1 Clear user interface with LED display
- 2 Extendable bearing support
- 3 Induction coil outside the housing, shortens heating times and reduces energy intake
- 4 Support yoke (standard with 3 standard yokes)
- 5 Magnetic temperature probes; monitoring of bearing temperature on inner and outer ring and protection against bearing overheating
- 6 Blue LED indicates Bluetooth connection
- 7 Main switch

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<b>Designation</b>	Heater for medium workpieces
<b>Voltage V / Hz / power</b>	100 V / 50 – 60 Hz / 1,5 kVA 110 – 120 V / 50 – 60 Hz / 1,7 kVA 220 – 240 V / 50 – 60 Hz / 2,1 kVA
<b>Workpiece</b>	
- Maximum weight	45 kg
- Bore diameter	20 – 310 mm
<b>Temperature control</b>	
- Range	20 – 180°C (68 – 356°F)
- Magnetic probe	Type K
- Accuracy (electronic)	± 3°C
<b>Time control</b>	
- Range	0 – 60 minutes
- Accuracy	± 0,01 seconds
<b>Maximum temperature (approx.)</b>	180°C (356°F)
<b>Thermometer mode</b>	yes
<b>Bearing temperature mode</b>	yes
<b>Power reduction</b>	8 levels / 10-20-30-40-50-60-80-100%
<b>Automatic demagnetization / residual magnetism</b>	yes / < 2A/cm
<b>Suitable for heating sealed bearings</b>	yes
<b>Suitable for heating pre-greased bearings</b>	yes
<b>Error guide codes</b>	yes
<b>Thermal overload protection</b>	yes
<b>Maximum magnetic flux</b>	1.5 T
<b>Control panel</b>	keyboard with LED-display
<b>Connectivity</b>	supports Bluetooth® Low Energy 5.0 standard
<b>Size of the operating area (W x H)</b>	114 x 160 mm
<b>Coil diameter</b>	89 mm
<b>Measurements (L x W x H)</b>	320 x 267 x 293 mm
<b>Overall weight including yokes</b>	17 kg
<b>Number of standard yokes</b>	3
<b>Standard yokes</b>	42,5 x 42,5 x 219 mm for bearings with a bore diameter ≥ 60 mm 28 x 28 x 219 mm for bearings with a bore diameter ≥ 40 mm 14 x 14 x 219 mm for bearings with a bore diameter ≥ 20 mm
<b>Core cross section</b>	42,5 x 42,5 mm
<b>Yoke storage</b>	integrated
<b>Housing material</b>	plastic



#### Features and dimensions IH 045

- Can heat a 28 kg bearing from 20°C to 110°C in less than 20 minutes, saving time and energy
- 8-stage power intake in combination with smaller yokes, allows smaller bearings to be heated safely and quickly with less energy
- Temperature pre-selection to 110°C to protect the bearings from overheating
- Automatic demagnetization
- 3 years manufacturer's warranty