

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