

## 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<br>110 – 120 V / 50 – 60 Hz / 1,7 kVA<br>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<br>28 x 28 x 219 mm for bearings with a bore diameter ≥ 40 mm<br>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