

Technical Data Sheet

Induction Heater IH 090

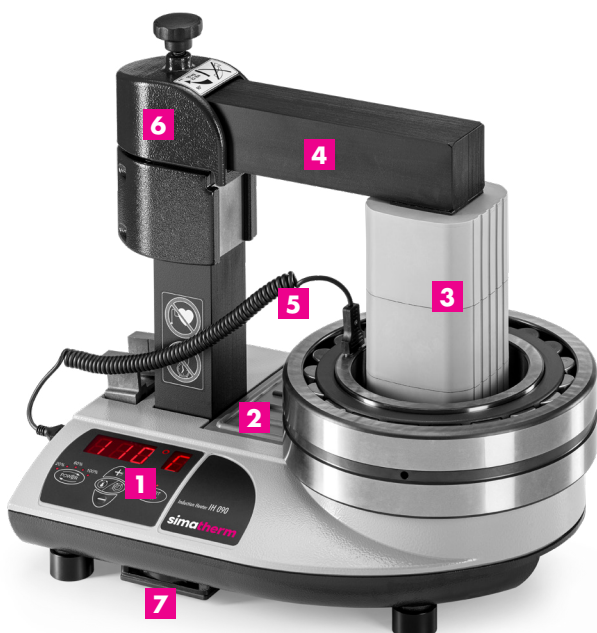


Medium-sized heater for bearings up to 150 kg

The medium-sized simatherm induction heater for roller bearings and other circular metal workpieces up to 400 mm bore diameter and a cross section of 145 x 205 mm. With the integrated time and temperature controls, roller bearings can be heated to the prescribed 110°C while other circular metal workpieces can be heated to 250°C.

- Three yokes included
- Very compact design – including the three yokes, only 38 kg overall weight
- Swivel arm
- Other power versions are available upon request

Description of IH 090



- 1 Clear control panel with LED-display
- 2 Heating surface
- 3 Induction coil outside of the housing shortens the heating time and reduces the energy usage
- 4 Support yoke (three yokes included)
- 5 Magnetic temperature probe for monitoring the bearing temperature and for preventing overheating
- 6 Swivel arm
- 7 Cooling fan

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Designation	Heater for medium workpieces (with cooling fan for continuous operation)
Voltage V / Hz / power	400 V / 50 Hz / 6.4 kVA 440 – 480 V / 50–60 Hz / 7.4 kVA 575 V / 60 Hz / 9.2 kVA
Workpiece	
- Maximum weight	150 kg
- Bore diameter	20 – 400 mm
Temperature control	
- Range	20 – 250°C (68 - 482°F)
- Magnetic probe	yes, type K
- Accuracy	± 3°C
Time control	
- Range	0 – 60 minutes
- Accuracy	± 0.01 seconds
Maximum temperature (approx.)	250°C (482°F)
Thermometer mode	yes
Bearing temperature mode	yes
Power reduction	5 levels / 20-40-60-80-100%
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
Size of the operating area (WxH)	145 x 205 mm
Coil diameter	115 mm
Measurements (LxWxH)	420 x 280 x 420 mm
Overall weight including yokes	38 kg
Number of standard yokes	3
Standard yokes	55 x 55 x 275 mm for bearings with a bore diameter of at least 78 mm 28 x 28 x 275 mm for bearings with a bore diameter of at least 40 mm 14 x 14 x 275 mm for bearings with a bore diameter of at least 20 mm
Core cross section	55 x 55 mm
Yoke storage	yes, integrated
Cooling fan	standard
Swivel arm	yes
Housing material	aluminum



Features and Dimensions IH 090

- Can heat bearings weighing 90 kg in 20 minutes from 20°C to 110°C, saving time and energy
- 5 different power consumption levels, along with smaller yokes, allow smaller bearings to be heated quickly and efficiently with less energy
- A pre-selected temperature of 110°C protects bearings from overheating
- Automatic demagnetization
- Delivered in a reusable wooden crate upon request
- 3 year manufacturer warranty