

Technical data sheet

Induction Heater IH 025 VOLCANO



Portable induction heater for bearings weighing up to 10 kg

The portable simatherm induction heater for roller bearings and other circular iron workpieces with an inner diameter as small as 20 mm up to an outer diameter of 160 mm. With the integrated time and temperature controls, roller bearings can be heated to the prescribed 110°C while other circular iron workpieces can be heated to 180°C.



- Portable, compact and very light (3.5 kg)
- Silent operation
- No support yokes required – simply place the workpiece on the tool
- PTC (Predictive Temperature Control) for automatic temperature monitoring

Description of IH 025 VOLCANO



- 1 Clearly arranged control panel with LED-display
- 2 Cone-shaped heating surface
- 3 Carrying handle
- 4 Magnetic temperature probe for monitoring the bearing temperature and for preventing overheating
- 5 Probe holding pad

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Induction Heater IH 025 VOLCANO

Technical Data IH 025 VOLCANO

Designation	Heater for small workpieces
Voltage V / Hz / power	220 – 240 V / 50 – 60 Hz / 1.5 kVA 110 – 120 V / 50 – 60 Hz / 1.15 kVA 100 V / 50 – 60 Hz / 1.0 kVA
Workpiece	
- Maximum weight	10 kg
- Bore diameter	From 20 mm inner diameter to 160 mm outer diameter
Temperature control	
- Range	20 – 180°C (68–356°F)
- Magnetic probe	yes, type K
- Accuracy (electronic)	± 3°C to 110°C (± 6°F to 230°F)
Time control	
- Range	0 – 10 minutes, in steps of 0.1 minutes
- Accuracy	± 0.01 seconds
Maximal 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
Control panel	keyboard with LED-display
Dimensions (LxWxH)	340 x 250 x 64 mm (over the cone 121 mm)
Overall weight	3.5 kg
Housing material	plastic
Cooling fan	yes



Features and Dimensions IH 025 VOLCANO

- Can heat a bearing weighing 10 kg from 20°C to 110°C in 6 minutes, saving time and energy
- Eight different power consumption levels 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
- Comes in a practical carrying case
- 3 year manufacturer warranty

Technical data sheet

Induction Heater IH 070

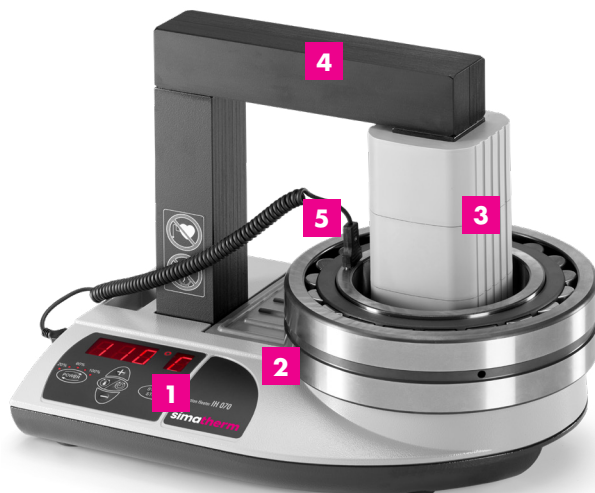


Medium-sized heater for bearings up to 120 kg

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 35 kg overall weight
- Swivel arm is available as an option
- Other power versions are available upon request

Description IH 070



- 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 consumption
- 4 Support yoke (three yokes included)
- 5 Magnetic temperature probe for monitoring the bearing temperature and for preventing overheating

Technical data sheet

Induction Heater IH 070

Designation	Heater for medium workpieces
Voltage V / Hz / power	100 V / 50 – 60 Hz / 1.5 kVA 110 – 120 V / 60 Hz / 3.7 kVA 220 – 240 V / 50 – 60 Hz / 3.7 kVA
Workpiece	
- Maximum weight	120 kg
- Bore diameter	20 – 400 mm
Temperature control	
- Range	20 – 250°C (68 - 482°F)
- Magnetic probe	yes, type K
- Accuracy (electronic)	± 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 345 mm
Overall weight including yokes	35 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
Swivel arm	optional
Housing material	aluminum



Features and Dimensions IH 070

- Can heat a bearing weighing 65 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

Technical data sheet

Induction Heater IH 090

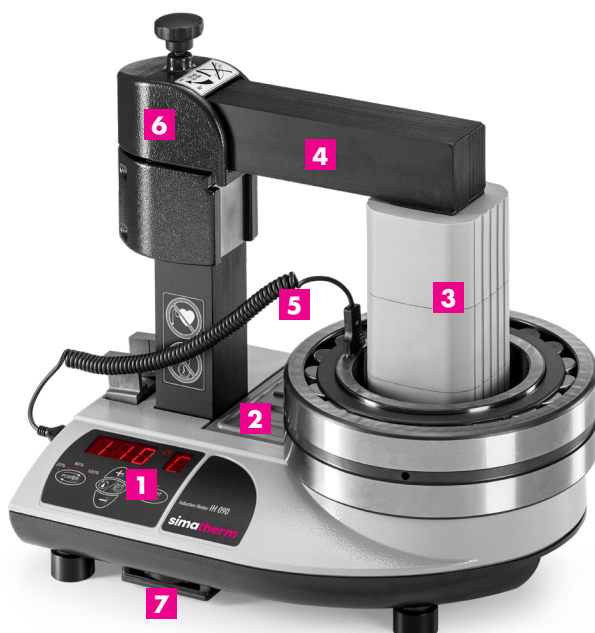


Medium-sized heater for bearings up to 150 kg

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

Technical data sheet

Induction Heater IH 090

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



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

Technical data sheet

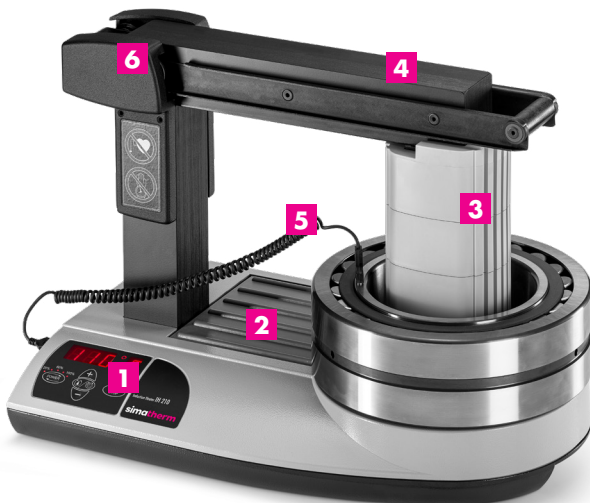
Induction Heater IH 210



Large heater for bearings up to 300 kg

The large simatherm induction heater for roller bearings and other circular metal workpieces up to 640 mm bore diameter and a cross section of 250 x 250 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.

- Sliding yoke allows easy loading and unloading
- Very compact design – including the yokes, only 75 kg overall weight
- Other power versions are available upon request
- Special executions with fans or an increased work area available upon request



Description of IH 210

- 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 (two yokes included)
- 5** Magnetic temperature probe for monitoring the bearing temperature and for preventing overheating
- 6** Sliding yoke

Technical data sheet

Induction Heater IH 210

Designation	Heater for large workpieces
Voltage V / Hz / power	400 V / 50 Hz / 10.0 kVA 440–480 V / 50–60 Hz / 11.5 kVA 575 V / 60 Hz / 10.4 kVA
Workpiece	
- Maximum weight	300 kg
- Bore diameter	60 – 640 mm
Temperature control	
- Range	20 – 250°C (68 - 482°F)
- Magnetic probe	yes, type K
- Accuracy (electronic)	± 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 magnetic flux	yes
Maximum magnetic flux	1.5 T
Control panel	keyboard with LED-display
Size of the operating area (WxH)	250 x 250 mm
Coil diameter	135 mm
Measurements (LxWxH)	600 x 350 x 420 mm
Overall weight including yokes	75 kg
Number of standard yokes	2
Standard yokes	70 x 70 x 420 mm for bearings with a bore diameter of at least 100 mm 40 x 40 x 420 mm for bearings with a bore diameter of at least 60 mm
Core cross section	70 x 70 mm
Yoke storage	yes, integrated
Sliding yoke	yes
Cooling fan	optional
Housing material	aluminum



Features and Dimensions IH 210

- Can heat a bearing weighing 210 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