

SKF

COMPACT WORKBENCH HEATER TIH 15

Controlled, energy-efficient and quick heating



A compact workbench solution for bearing heating

The TIH 15 is the most compact heater of the SKF TIH induction heater range and features an enhanced ergonomic design.

The heater contains a U-shaped iron core with inductive coils underneath. The current in the coils generates a fluctuating magnetic field. This induces currents within the component, which are converted to heat. Only the component is heated, ensuring that the process is highly energy efficient.

The keyboard control panel is intuitive to use, allowing the user to select either Temperature Mode or Time Mode.

Benefits

- Easily fits on a workbench, leaving space to spare.
- Highly energy efficient operation.
- All accessories can be stored inside the carry case.
- Automatic temperature monitoring and shut off.
- Choice of power settings.

The TIH 15 package includes:

- 1 x TIH 15
- 1 x TIH P20 temperature probe
- 1 x TMBA G11 pair of heat-resistant gloves
- TIH 15-Y5: Yoke for min. 50 mm workpiece diameter, 35 × 35 × 160 mm
- TIH 15-Y2: Yoke for min. 20 mm workpiece diameter, 14 × 14 × 160 mm
- TIH 15-Y4: Yoke for min. 40 mm workpiece diameter, 28 × 28 × 160 mm
- Anti-roll support (supports vertical heating of the bearing, keeps it safe in position)
- Power cable (230V or 120V)
- LGAF 3E/0.035: Anti-fretting agent, 35 g tube



TIH 15 features

Operation

The TIH 15 offers two modes:

- Temperature Mode, where the operator selects the desired bearing temperature.
- Time Mode, allowing a bearing or component to be heated for a specified length of time.

Versatile

Three sizes of removable yoke allow the user to heat up a variety of bearing sizes, in both vertical and horizontal positions.

Power regulation

The heater has two power settings, allowing it to heat sensitive components (such as bearings with shields, or metallic inserts in the seals) more slowly if required.

Compact

The compact and ergonomic design means that it fits easily on a small workbench and is easy to carry in the field. All accessories can be stored inside the carry case for extra convenience.



Noise level

Advances in frequency technology ensure that the heater produces no discernible noise during operation.

Technical data

Designation	TIH 15/230V TIH 15/120V	Can heat sealed bearings	Yes
Description	Compact workbench heater	Can heat pre-greased bearings	Yes
Colour	Blue	Error guiding codes	Yes
Maximum power consumption	1.2 kVA	Thermal overload protection	Yes
Voltage and frequency	TIH 030M/230V: 220-240 V, 50/60 Hz TIH 030M/120V: 100-120V, 50/60Hz	Control panel	LED display
Bearing		Operating area (W × H)	90 × 85 mm (3.54 × 3.35 in)
Maximum weight	15 kg (33.07 lb)	Core cross-section	35 × 35 mm (0.59 in)
Minimum bore diameter	20 mm (0.77 in)	Dimensions (W × D × H)	350 × 206 × 240 mm (13.8 × 8.11 × 9.4 in)
Maximum bore diameter	200 mm (7.77 in)		
Temperature control		Total weight, including yokes	13 kg (28.66 lbs)
Range	20–250 °C (68–482 °F)	Standard yokes	TIH 15-Y5: yoke for min. 50 mm workpiece diameter, 35 × 35 × 160 mm TIH 15-Y2: yoke for min. 20 mm workpiece diameter, 14 × 14 × 160 mm TIH 15-Y4: yoke for min. 40 mm workpiece diameter, 28 × 28 × 160 mm
Magnetic probe	Yes, K-type	Top storage	For yokes, gloves, temperature probe etc.
Accuracy (electronics)	±2 °C (±3.6 °F)	Housing material	Steel and glass filled polyamide
Time control		Recommended warranty period	3 years
Range	0–60 minutes	Swivel arm	No
Accuracy	±0.01 s	Cooling fan	Yes
Maximum heating temperature*	250 °C (482 °F)		
Thermometer mode	Yes		
Power level setting	2-step; 50% or 100%		
Demagnetisation according to SKF norms (automatic)	Yes (<2 A/cm)		

Compact enough to fit easily on a workbench

The compact workbench heater TIH 15 has been redesigned to be even more compact than the first generation and it will fit easily on a workbench with room to spare. Its minimalist form factor hides the enormous range of closed-circuit item sizes that the heater can heat. Items can be laid horizontally around one of the inductor pillars or hang vertical off one of the two supplied yokes.

The TIH 15 is sufficiently portable to be used out in the field or be moved to other site locations. Typical applications include maintenance and service jobs on gearboxes, pumps, fans and blowers.

The heater incorporates extra equipment, all stowable within the tray, to ensure safe and efficient heating.

