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SKF Large induction heater TIH 220m

Large bearing heater with high heating capacity of up to 300 kg bearing

The large induction heater TIH 220m is a reliable and robust induction heater from the TIH...m range suitable for heating bearings up to a maximum weight of 300 kg (660 lbs) and solid components up to a maximum weight of 150 kg (330 lbs).

Advanced design of the power electronics including current and overheating control, combined with user friendly features such as sliding arms and remote control are standard to the TIH...m range.

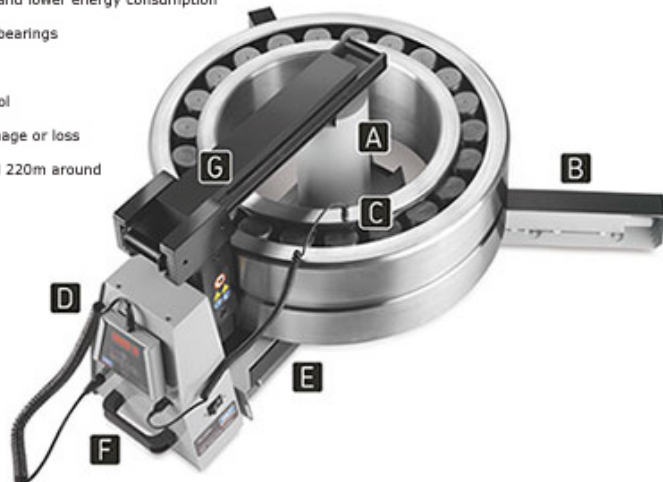


Maximum efficiency is achieved by placing the induction coil outside the heater's housing, in the centre of the bearing, resulting in shorter heating time and lower energy consumption. The LED operating display and control panel are integrated in a remote control, which makes the heater easy to use. To suit different operating voltages worldwide, the TIH 220m is available in different voltage variants.

Features:

- Capable of heating a 220 kg (480 lbs) bearing in just 20 minutes, saving time and energy
- Supplied standard with two yokes, allowing bearings with a bore diameter from 60 mm (2,3 in) up to a maximum weight of 300 kg (660 lbs) to be heated
- 2-step power setting and smaller yoke facilitates efficient heating of smaller bearings with a lower power consumption
- Temperature mode pre-set at 110 °C (230 °F), helps prevent bearing overheating
- Automatic de-magnetization

- A. Induction coil outside the heater's housing allows shorter heating time and lower energy consumption
- B. Foldable bearing support arms facilitate the heating of larger diameter bearings
- C. Magnetic temperature probe helps prevent bearing overheating
- D. Easy-to-use control panel and LED display integrated in a remote control
- E. Internal yoke storage for the smaller yoke reduces the risk of yoke damage or loss
- F. Integrated carrying handles provide excellent grip when moving the TIH 220m around
- G. Sliding arm allows easy and quick bearing replacement



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Technical:

- Designation: TIH 220M/LV, TIH 220M/MV
- SKF m20 performance: 220 kg (460 lbs)
- Voltage, V/Hz: TIH 220M/LV: 200-230V/50-60Hz TIH 220M/MV: 400-460V/50-60Hz
- Work piece:
 - Maximum weight: 300 kg (661,4 lb)
 - Maximum bore diameter: 60 - 600 mm (2,3 - 23,6 in)
- Temperature control:
 - Range: 0 - 250 °C (32 - 482 °F)
 - Magnetic probe: Yes, K-type
 - Accuracy (electronics): ± 2 °C (± 3,6 °F)
- Time control:
 - Range: 0 - 60 minutes
 - Accuracy: ± 0,01 sec.
- Maximum temperature (approx.): 400 °C (750 °F)
- Thermometer mode: Yes
- Bearing mode (pre-set at 110 °C/230 °F): Yes
- Power reduction: 2-step; 50 - 100%
- Demagnetization according to SKF norms (automatic): Yes (<2 A/cm)
- Can heat sealed bearings: Yes
- Can heat pre - greased bearings: Yes
- Error guiding codes: Yes
- Thermal overload protection: Yes
- Maximum magnetic flux: 1,55 T
- Control panel: Key board with LED in remote control
- Operating area: (w × h): 250 × 255 mm (9,8 × 10 in)
- Coil diameter: 140 mm (5,5 in)
- Dimensions (w × d × h): 750 × 290 × 440 mm (29,5 × 11,4 × 17,3 in)
- Total weight, including yokes: 86 kg (189 lbs)
- Maximum power consumption: 10,0-11,5 kVA (400-460V)
- Number of standard yokes: 2
- Standard yokes: 70 × 70 × 430 mm (2,8 × 2,8 × 16,9 in), for heating bearings with bore diameter of 100 mm (3,9 in) and larger 40 × 40 × 430 mm (1,5 × 1,5 × 16,9 in), for heating bearings with bore diameter of 60 mm (1,6 in) and larger
- Core cross section: 70 × 70 mm (2,8 × 2,8 in)
- Yoke storage: Yes
- Sliding arm: Yes, 70 x 70 x 430 mm (2,8 x 2,8 x 16,9 in) yoke only
- Swivel arm: No
- Cooling fan: No
- Housing material: Steel and glass fiber filled polyamide
- Warranty period: 3 years

