

# Small induction heater TIH 030m

## Small bearing heater with high heating capacity of up to 40 kg bearing

The new SKF small induction heater TIH 030m combines high heating capacity with portability. The compact lightweight design makes the TIH 030m portable. Placing the induction coil outside the heater's housing allows the heating of bearings weighing up to 40 kg (88 lb). The heater is equipped with thermal overheating protection to reduce the risk of damage to the induction coil and the electronics.

In addition to temperature mode, the TIH 030m is equipped with a time mode for heating components other than bearings. The heater is supplied standard with three yokes and is available in two executions: 230V/50–60Hz and 100–110V/50–60Hz.

### SKF m<sub>20</sub> concept

“m<sub>20</sub>” represents the weight (kg) of the heaviest SRB 231 bearing which can be heated from 20 to 110 °C (68 to 230 °F) in 20 minutes. This defines the heater's power output instead of its power consumption.

- Compact lightweight design; just 20,9 kg (46,0 lb) facilitating portability
- 2-step power setting and smaller yokes allow heating smaller bearings safely and at lower power consumption
- Capable of heating a 28 kg (61,7 lb) bearing in just 20 minutes
- Temperature mode pre-set at 110 °C (230 °F) to help prevent bearing over-heating
- Automatic demagnetisation
- 3 years warranty





- 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 storage for all 3 yokes reduces the risk of yoke damage or loss
- F Integrated carrying handle facilitates portability

#### Technical data

<b>Designation</b>	<b>TIH 030M</b>
<b>SKF m20 performance</b>	28 kg (61,7 lb)
<b>Voltage, V/Hz</b>	230V/50 – 60Hz or 110V/50 – 60Hz
<b>Work piece:</b>	
– Maximum weight	40 kg (88 lb)
– Maximum bore diameter	20 – 300 mm (0,8 – 11,8 in)
<b>Temperature control:</b>	
– Range	0 – 250 °C (32 – 482 °F)
– Magnetic probe	Yes, K-type
– Accuracy (electronics)	± 2 °C (± 3,6 °F)
<b>Time control:</b>	
– Range	0 – 60 minutes
– Accuracy	± 0,01 sec.
<b>Maximum temperature (approx.)</b>	400 °C (750 °F)
<b>Thermometer mode</b>	Yes
<b>Bearing mode</b>	Yes
<b>Power reduction</b>	2-step; 50 – 100%
<b>Demagnetisation according to SKF norms (automatic)</b>	Yes (<2 A/cm)
<b>Can heat sealed bearings</b>	Yes
<b>Can heat pre – greased bearings</b>	Yes
<b>Error guiding codes</b>	Yes
<b>Thermal overload protection</b>	Yes
<b>Maximum magnetic flux</b>	1,7 T

<b>Control panel</b>	Key board with LED in remote control
<b>Operating area (w × h)</b>	100 × 135 mm (3,9 × 5,3 in)
<b>Coil diameter</b>	95 mm (3,7 in)
<b>Dimensions (w × d × h)</b>	450 × 195 × 210 mm (17,7 × 7,6 × 8,2 in)
<b>Total weight, including yokes</b>	20,9 kg (46 lb)
<b>Maximum power consumption</b>	2,0 kVA
<b>Number of standard yokes</b>	3
<b>Standard yokes</b>	45 × 45 × 215 mm (1,7 × 1,7 × 8,4 in), for heating bearings with bore diameter of 65 mm (2,6 in) and larger 28 × 28 × 215 mm (1,1 × 1,1 × 8,4 in), for heating bearings with bore diameter of 40 mm (1,6 in) and larger 14 × 14 × 215 mm (0,5 × 0,5 × 8,4 in), for heating bearings with bore diameter of 20 mm (0,8 in) and larger
<b>Core cross section</b>	45 × 45 mm (1,7 × 1,7 in)
<b>Yoke storage</b>	Yes, foldable
<b>Sliding arm</b>	No
<b>Swivel arm</b>	No
<b>Cooling fan</b>	No
<b>Housing material</b>	Steel and glass filled polyamide
<b>Warranty period</b>	3 years

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