TIH 030m

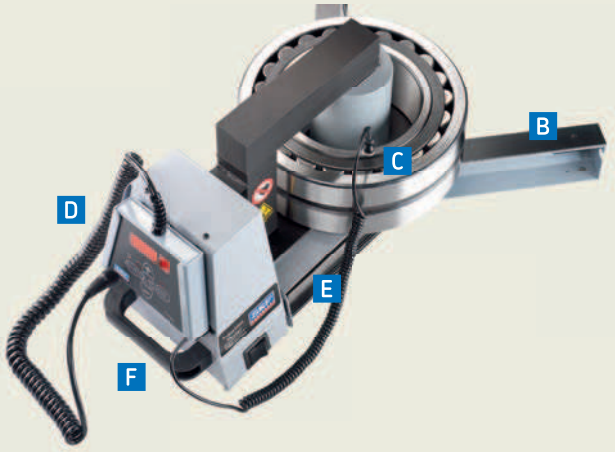
Small induction heater with a 40 kg bearing heating capacity

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.



- Compact lightweight design; just 21 kg *(46 lb)*, facilitating portability
- Capable of heating a 28 kg *(62 lb)* bearing in just 20 minutes
- Supplied standard with three yokes, allowing bearings with a bore diameter from 20 mm *(0.8 in.)* up to a maximum weight of 40 kg *(90 lb)* to be heated

Features and benefits



A Induction coil located outside the heater's housing enables a shorter heating time and lower energy consumption

B Foldable bearing support arms allow larger diameter bearings to be heated, and reduce the risk of the bearing toppling during heating

C Magnetic temperature probe, combined with a temperature mode pre-set at 110 °C *(230 °F)*, helps prevent bearing overheating

D Unique SKF remote control, with operating display and control panel, makes the heater easy and safe to use

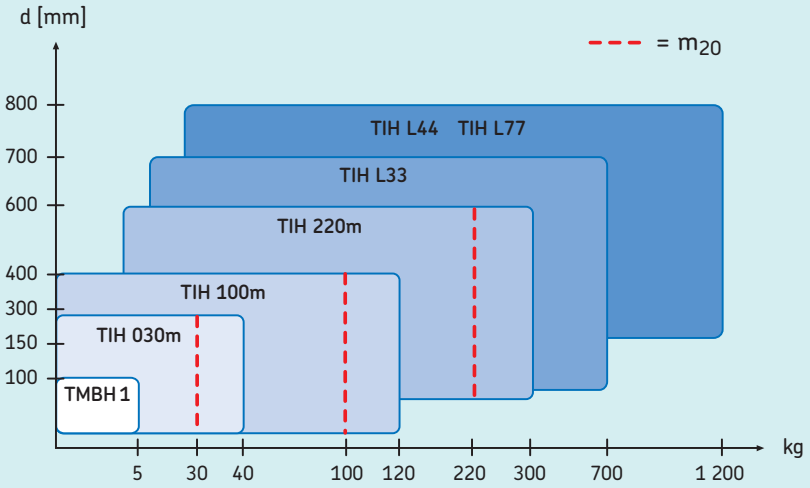
E Internal yoke storage, for smaller yoke(s), reduces the risk of yoke damage or loss

F Integrated carrying handles allow for easy movement of the heater in the workshop

Technical data

Designation	TIH 030m
Max. bearing weight	40 kg *(88 lb)*
Bore diameter range	20–300 mm *(0.8–11.8 in.)*
Operating area (w × h)	100 × 135 mm *(3.9 × 5.3 in.)*
Coil diameter	95 mm *(3.7 in.)*
Standard yokes (included) to suit bearing/workpiece minimum bore diameter	65 mm *(2,6 in.)* 40 mm *(1.6 in.)* 20 mm *(0.8 in.)*
Application example (bearing, weight, temperature, time)	23136 CC/W33, 28 kg, 110 °C, 20m
Max. power consumption	2,0 kVA
Voltage [1]	
100–240 V/50–60 Hz	–
100–120 V/50–60 Hz	TIH 030m/110 V
200–240 V/50–60 Hz	TIH 030m/230 V
400–460 V/50–60 Hz	–
Temperature control [2]	20 to 250 °C *(68 to 482 °F)*
Demagnetisation according to SKF norms	<2 A/cm
Dimensions (w × d × h)	460 × 200 × 260 mm *(18.1 × 7.9 × 10.2 in.)*
Total weight (incl. yokes)	20,9 kg *(46 lb)*

SKF induction heater range



The comprehensive range of SKF induction heaters is suitable for most bearing heating applications. The chart gives general information on choosing an induction heater for bearing heating applications [3].

The SKF m_{20} concept represents the weight (kg) of the heaviest SKF spherical roller bearing of series 231 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. Unlike other bearing heaters, there is a clear indication of how long it takes to heat a bearing, rather than just the maximum bearing weight possible.

[1] Some special voltage versions (e.g. 575V, 60 Hz CSA ready) are available for specific countries. For additional information, please contact your local SKF authorised distributor.
[2] Maximum heating temperature capacity depends on the weight and geometry of the bearing or workpiece. The heaters can achieve higher temperatures, please contact SKF for advice.
[3] For heating components other than bearings, SKF recommends consideration of TIH L MB series heater. Contact SKF to help you select a suitable induction heater for your application.

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PUB MP/P8 14384/2 EN · August 2017