

High frequency portable induction heater TMBH 1

A portable bearing heater weighing only 4,5 kg (10 lb)

The SKF bearing heater TMBH 1 is a portable lightweight heater for heating bearings with an inner diameter ranging from 20 to 100 mm (0.8 to 4 in) and a maximum corresponding weight of 4,5 kg (10 lb). The heater uses a patented method of heating based on high frequency induction, which provides optimised efficiency.

This method is very quiet and creates no magnetisation at all. In addition to bearings, the heater can also be used for heating ferrous components such as gears, pulleys, bushings and shrink rings.

- Lightweight and portable (4,5 kg – 10 lbs)
- Heating efficiency better than 85%
- Components are not magnetised
- Equipped with temperature and time control
- Supplied with a heating clamp, temperature probe, power cable, heat resistant gloves and a carrying case

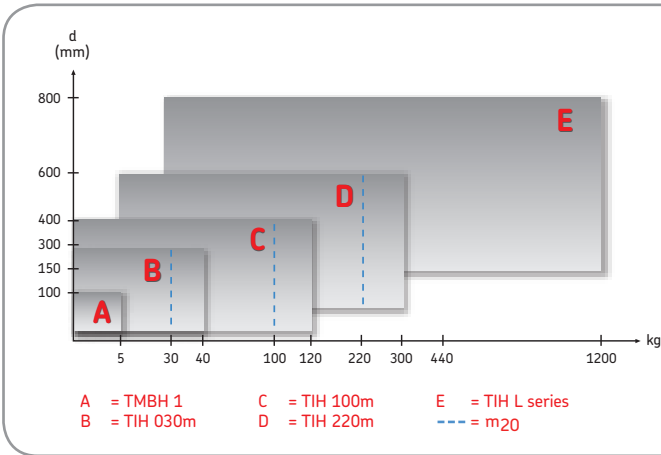
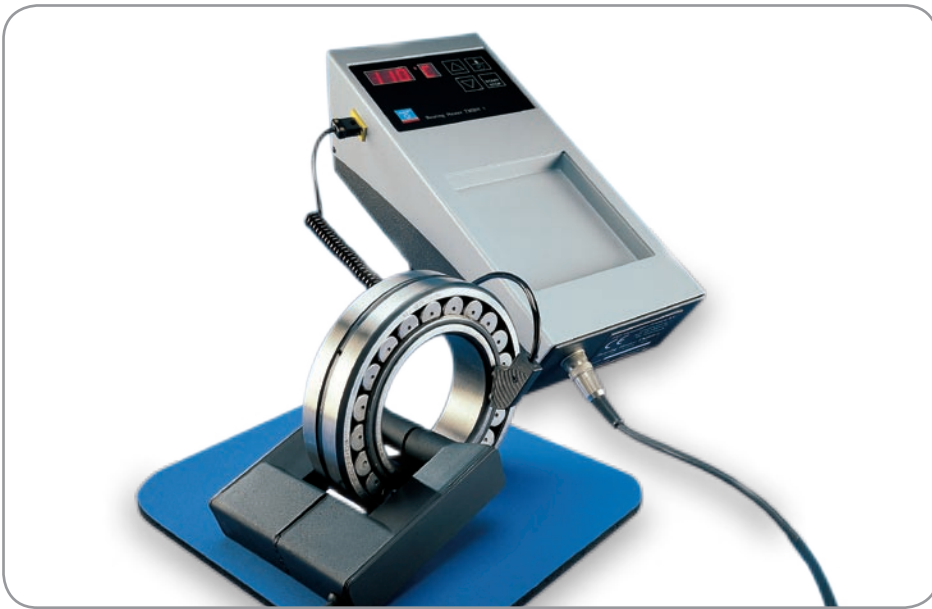


Technical data

Designation	TMBH 1
Power:	
Voltage	100 – 240 V, 50 – 60 Hz
Power (maximum)	350 Watt
Cosine ϕ	> 0,95
Component size range:	
– inner diameter	20 ... 100 mm (0,8 ... 4 in)
– width	< 50 mm (2 in)
– weight	up to approximately 5 kg (11 lb)
Control functions:	
Time control	0 – 60 minutes
Temperature control	0 – 200 °C (32 – 392 °F)
Accuracy temperature control	± 3 °C (6 °F)
Maximum temperature	200 °C (392 °F)

Dimensions:	
Control box	150 × 330 × 105 mm (6 × 13 × 4 in)
Heating clamp	114 × 114 mm (4,5 × 4,5 in)
Operating space heating clamp	52 × 52 mm (2,0 × 2,0 in)
Complete unit in carrying case	370 × 240 × 130 mm (15 × 9 × 5 in)
Length clamp cable	75 cm (30 in)
Length power cable	2 m (80 in)
Length temperature probe cable	100 cm (40 in)
Weight complete unit	4,5 kg (10 lb)





Selection guide

There are no totally restrictive guidelines to follow when choosing your SKF bearing heater. It will depend upon the type and geometrical dimensions of the components you want to heat. Nevertheless, SKF offers the following helpful general selection guide.

SKF m₂₀ concept

"m₂₀" 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.



TIH 030m



TIH 100m



TIH 220m

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