

Extra large induction heater with a 1 200 kg bearing heating capacity

TIH L series

The SKF Induction Heater TIH L series are intended for heating large size rolling bearings and components forming a closed circuit such as housings, gear wheels and couplings. With advanced power electronics and a dual coil design, the TIH L series can heat large bearings up to 1 200 kg (2 600 lb), using just 20 kVA of electrical power. This is a power saving of almost 50% compared to traditional induction heaters. Unusually for a bearing heater for large bearings, the TIH L series can be supplied in medium and low voltage versions.

- Using just 20 kVA of electrical power, the TIH L series can heat large bearings up to 1 200 kg (2 600 lb).
- Bearings and work pieces can be heated vertically or horizontally.
- Compact design allows the TIH L series heaters to be easily transported by forklift.
- Available in two versions: 230 V/50–60 Hz and 400–460 V/50–60 Hz.
- Available with two different operating areas.

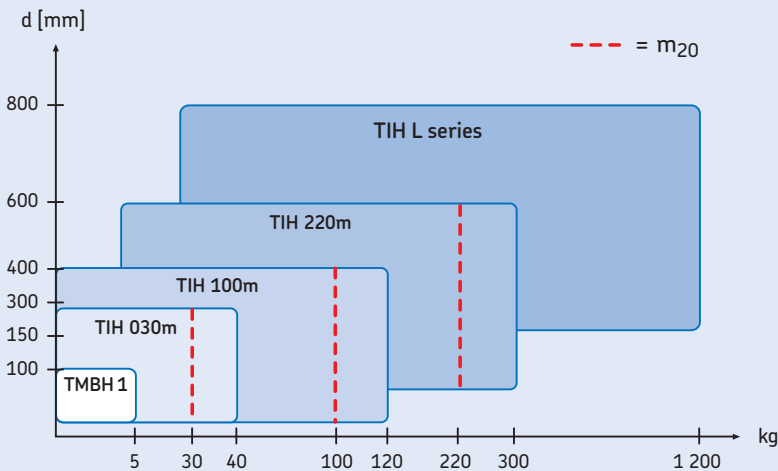


Technical data

Designation	TIH L44 / TIH L77	
Max. workpiece weight	1 200 kg (2 600 lb)	
Bore diameter range	100–800 mm (3.9–31.5 in.)	
Operating area (w × h)	TIH L44: 425 × 492 mm (16.7 × 19.4 in.)	
	TIH L77: 725 × 792 mm (28.4 × 31.2 in.)	
Coil diameter	175 mm (6.8 in.)	
Standard yokes (included) to suit bearing/workpiece minimum bore diameter	150 mm (5.9 in.)	
Max. power consumption	20–24 kVA (200–240 V)	
Voltage ¹⁾		
200–240 V/50–60 Hz	TIH L../LV	
400–460 V/50–60 Hz	TIH L../MV	

Temperature control	20 to 250 °C (68 to 482 °F)
Time control (minutes)	0–120
Demagnetisation according to SKF norms	<2A/cm
Max. temperature	400 °C (750 °F)
Dimensions (w × d × h)	TIH L44: 1 200 × 600 × 850 mm (47.3 × 23.6 × 33.5 in.)
	TIH L77: 1 320 × 600 × 1 150 mm (52 × 23.6 × 45.3 in.)
Total weight (incl. yokes)	TIH L44: 324 kg (714 lb)
	TIH L77: 415 kg (915 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.²⁾

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 on how long it takes to heat a bearing, rather than just the maximum bearing weight possible.

¹⁾ Some special voltage versions are available for specific countries. For additional information, contact your SKF authorized distributor.

²⁾ For heating components other than bearings, we strongly recommend that you contact SKF to help you select a suitable induction heater for your application.