

TIH L MB series

Induction heaters for non-bearing applications

The SKF TIH L MB series is specially designed to heat solid workpieces, such as rings, sleeves, gears, couplings, bushings and pulleys, as well as train wheels, tires or similar components. Featuring one magnetic coil in the center, these powerful and durable heaters localize the heating in the workpiece bore for superior performance on solid components.

The TIH L MB series provides the following advantages for quick and effective heating of solid workpieces:

- Simple and safe operation with remote-control and power level selection
- Superior heating performance for solid workpieces with low energy consumption
- Quick and easy placement of solid components with sliding yoke
- Automatic demagnetization reduces risk of ferrous debris contamination
- Easy to transport using standard forklift
- Available in three voltage variants to suit most operating voltages worldwide
- Available with three different operating areas



The TIH L MB heats non-bearing workpieces up to 600 kg (1 323 lb), depending on the model.



The TIH L MB induction heater is equipped with a remote control panel for operator safety.

Advice: The SKF TIH L MB series heaters are designed for induction heating of solid, non-bearing components. For bearing-heating applications, we recommend the use of equivalent SKF TIH L series heaters.

Technical data

Designation	TIH L33MB	TIH L44MB	TIH L77MB
Maximum workpiece weight	350 kg (772 lb)	600 kg (1 323 lb)	600 kg (1 323 lb)
Bore diameter range	115–700 mm (4.5–27.6 in.)	150–800 mm (5.9–31.5 in.)	150–800 mm (5.9–31.5 in.)
Operating area (w × h)	330 × 320 mm (13.0 × 12.6 in.)	465 × 492 mm (18.3 × 19.4 in.)	765 × 792 mm (30.1 × 31.2 in.)
Coil diameter	150 mm (5.9 in.)	175 mm (6.9 in.)	175 mm (6.9 in.)
Standard yokes (included) to suit workpiece minimum bore diameter	115 mm (4.5 in.)	150 mm (5.9 in.)	150 mm (5.9 in.)
Max. power consumption	TIH L33MB/MV: 15 kVA TIH L33MB/LV: 15 kVA	TIH L44MB/LV: 20–24 kVA TIH L44MB/MV: 20–23 kVA	TIH L77MB/LV: 20–24 kVA TIH L77MB/MV: 20–23 kVA
Voltage ¹⁾			
200–240 V/50–60 Hz	TIH L33MB/LV	TIH L44MB/LV	TIH L77MB/LV
400–460 V/50–60 Hz	TIH L33MB/MV	TIH L44MB/MV	TIH L77MB/MV
Temperature control	0–250 °C (32–482 °F); in steps of 1°	0–250 °C (32–482 °F); in steps of 1°	0–250 °C (32–482 °F); in steps of 1°
Time control	0–120 minutes; in steps of 0,1 minute	0–120 minutes; in steps of 0,1 minute	0–120 minutes; in steps of 0,1 minute
Demagnetisation according to SKF norms	<2A/cm	<2A/cm	<2A/cm
Maximum heating temperature ²⁾	250 °C (482 °F)	250 °C (482 °F)	250 °C (482 °F)
Dimensions (w × d × h)	400 × 743 × 550 mm (15.8 × 29.3 × 21.7 in.)	1 200 × 600 × 850 mm (47.3 × 23.6 × 33.5 in.)	1 320 × 600 × 1 150 mm (52 × 23.6 × 45.3 in.)
Weight	140 kg (309 lb)	324 kg (714 lb)	415 kg (915 lb)

¹⁾ Some special voltage versions (e.g. 575V, 60Hz CSA ready) are available for specific countries. For additional information, please contact your local SKF authorised distributor.

²⁾ Depending on bearing or workpiece weight. For higher temperatures, please contact SKF.

Heater selection tool

The online heater selection tool helps to select the most appropriate SKF heater for a given hot mounting or dismounting application of bearings or annular workpieces.

In just three easy steps, you can define your heating application and receive a list of all suitable heaters for that application, including a recommendation of the heater that offers the best price-performance ratio.

The online heater selection tool is available free of charge, just scan the QR code or visit us on www.mapro.skf.com/heatersselect

The heater selection tool supports all mounting and fixed size EAZ dismounting heaters and offers additional information such as the product data sheet, technical data and product websites for each heater. If you cannot find the right heater for your application or you need more information, please don't hesitate to contact SKF.