SKF Extra Large Induction Heaters

Extra large bearing heaters with high heating capacity of up to 3 000 kg (6 610 lbs) bearing

The SKF Extra Large Induction Heaters TIH 400E and TIH 1000E are intended for heating large size rolling bearings and components forming a closed circuit such as housings, gear wheels, bushings, shrink rings and pulleys.

The TIH 400E has a maximum capacity of 40 kVA and can be used to heat bearings and work pieces up to 1 000 kg (2205 lbs) depending on type, geometry, material and the required temperature.

The TIH 1000E has a maximum capacity of 100 kVA and can be used for bearings and work pieces up to 3 000 kg (6 610 lbs) depending on type, geometry, material and the required temperature.

Just like all SKF TIH Induction heaters, at the end of the heating cycle the work piece is automatically demagnetized.

TIH 1000E

TIH 400E

To provide an accurate quotation the following information is required:

Bearings to be heated:

- Bearing designation
- If new bearing: main dimension and weight (kg)
- Required temperature (°C)
- Mounting frequency (once a day / week / month)
- Heating position, horizontal or vertical (i.e. mounting on vertical shaft or horizontal shaft)

Workpiece other than bearing, i.e. housing, gear, bushing, etc.:

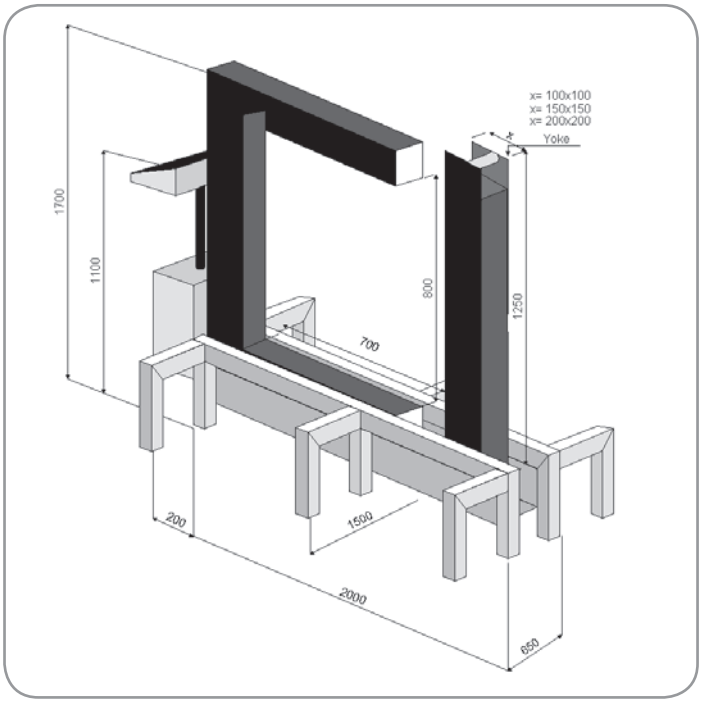
- Drawing of workpiece with dimensions (mm)
- Weight (kg)
- Material of workpiece (steel, cast iron, etc.)
- Required temperature (°C)
- Mounting frequency (once a day / week / month)
- Heating position, horizontal or vertical (i.e. mounting on vertical shaft or horizontal shaft)

Heater data:

- Power supply available (V, A and Hz)
- Present or considered heating method (oven, oil bath, ...)

For more information on the suitability of SKF Extra Large Heaters for your application or for a quotation, please contact you local SKF office.

Mounting and lubrication



Custom made example

TIH 1000E

Technical data	
Designation	**TIH 400E**
Voltage	400V / 50Hz or 460V / 60Hz
Power consumption (maximum)	40 kVA
Temperature control	0 – 240 °C (32 – 464 °F); in steps of 1 °C (1.8 °F)
Probe maximum temperature	240 °C (464 °F)
Time mode	Yes.
Demagnetization	Automatic; residual magnetism < 2A/cm
Overall dimensions (w × d × h)	1 820 × 1 000 × 1 200 mm (71.6 × 39.4 × 47.2 in)*
Standard yoke dimensions	150 × 150 × 850 mm (5.9 × 5.9 × 33.4 in)*
Operating area (w × h)	600 × 480 mm (23.7 × 18.9 in)*
Weight with yoke	Approximately 800 kg (1 764 lbs)*
Work piece maximum weight	1 000 kg (2 205 lbs)
Designation	**TIH 1000E**
Voltage	400V / 50Hz or 460V / 60Hz
Power consumption (maximum)	100 kVA
Temperature control	0 – 240 °C (32 – 464 °F); in steps of 1 °C (1.8 °F)
Probe maximum temperature	240 °C (464 °F)
Time mode	Yes
Demagnetization	Automatic; residual magnetism <2A/cm
Overall dimensions (w × d × h)	2 200 × 1 500 × 1 700 mm (71.6 × 59 × 67 in)*
Standard yoke dimensions	200 × 200 × 1 250 mm (7.88 × 7.88 × 49.2 in) *
Operating area (w × h)	700 × 800 mm (27.5 × 31.5 in)*
Weight with yoke	Approximately 1 800 kg (3 968 lbs) *
Work piece maximum weight	3 000 kg (6 610 lbs) *

** For special execution dimensions and weight may differ*

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