

# Heating tools



A portable solution for bearing heating

## Portable induction heater TWIM 15

The SKF portable induction heater TWIM 15 is designed to heat up roller bearings that are mounted with an interference fit onto a shaft. Heating the bearing causes it to expand, which eliminates the need to use force during installation. Generally, using the TWIM 15 to generate a 90 °C (162 °F) temperature difference between the bearing and shaft is sufficient to enable installation. In addition, the TWIM 15 can be used to heat other ring-shaped, metallic components, providing flexibility of use.



Utilizing electrical power, the TWIM 15 features glass-fiber, high-temperature-resistant plastic construction that allows a low temperature difference between the inner and outer rings of the bearing. This helps to reduce internal tensions that are generated due to excessive thermal expansion of the inner ring compared to the outer ring.

The unit has a user-friendly LED control panel that requires no special training and is simple to understand. The panel is used to regulate temperature and also indicates that the TWIM 15 is operational.

### TWIM 15 advantages:

- Innovative heating of bearings
- Portable, compact and lightweight
- No support yokes required
- Automatic temperature monitoring
- Detects bearing size and heats appropriately
- Two power levels and three power configurations
- User-friendly LED control panel
- Quiet operation



The TWIM 15 portable induction heater package includes:

- Portable induction heater TWIM 15
- Magnetic K-type 400 mm temperature probe TWIM 15-3
- Temperature-resistant gloves TMBA G11
- Instructions for use

### Versatile

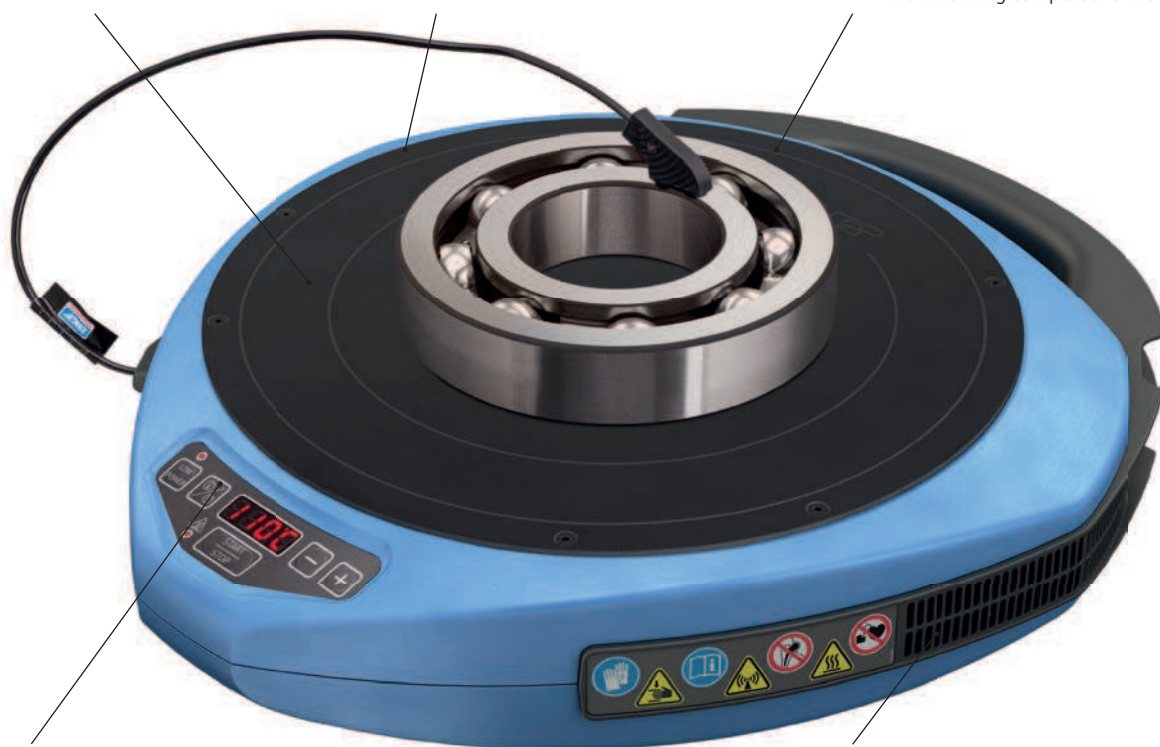
Because of the induction plate's flat shape, a support yoke is not needed. This increases the type of components that can be heated on the plate and also reduces the number of required accessories.

### Portable

Due to the medium-frequency technology used and choice of materials, the heater is lightweight. Also, the built-in handle makes it convenient to transport, and it can be stored easily.

### Innovative heating

Utilizing smart construction and operating software, the heater produces a low temperature difference between the inner and outer ring of the bearing. This reduces the internal tensions generated due to excessive thermal expansion of the inner ring compared to the outer ring.



### Power regulation

Featuring two power settings, the TWIM 15 can heat sensitive components at a slower pace. Also, a non-bearing power configuration is possible where most of the power is focused on the bore of the component.

### Quiet

Using medium-frequency technology to heat components does not generate noise. An LED indicates when the TWIM 15 is heating, even if you cannot hear it!

### Technical data

Designation	TWIM 15		
Max. bearing weight <sup>1)</sup>	20 kg (44 lb)	Max. current consumption	TWIM 15/230 V: 10 A TWIM 15/110 V: 16 A
Min. bearing bore diameter	20 mm (0.79 in.)	Temperature control	20-200 °C (68-392 °F)
Max. bearing outer diameter	320 mm (12.6 in.)	Demagnetisation according to SKF norms	Automatic
Max. bearing width	85 mm (3.35 in.)	Dimensions (w x d x h)	450 x 500 x 100 mm (17.7 x 19.7 x 3.9 in.)
Performance examples (bearing, weight, temperature, time)	6320: 7,1 kg (15.7 lb), 110 °C (230 °F), 5 min 20 s 22320 CC/W33: 12,8 kg (28.2 lb), 110 °C (230 °F), 12 min 35 s	Total weight	6,6 kg (14.6 lb)
Maximum power	TWIM 15/230 V: 2,3 kVA 1,8 kVA for the TWIM 15/110 V TWIM 15/110 V: 1,8 kVA		
Voltage	TWIM 15/230 V: 230 V, 50 Hz TWIM 15/110 V: 110 V, 60 Hz		

<sup>1)</sup> Depending on the geometry of the bearing, maximum heating temperature and power availability.