SKF TWIM 15

A portable solution for bearing heating



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 [1]	20 kg *(44 lb)*
Min. bearing bore diameter	20 mm *(0.79 in.)*
Max. bearing outer diameter	320 mm *(12.6 in.)*
Max. bearing width	85 mm *(3.35 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
Maximum power	TWIM 15/230 V: 2,3 kVA TWIM 15/110 V: 1,8 kVA
Voltage	TWIM 15/230 V: 230 V, 50 Hz TWIM 15/110 V: 110 V, 60 Hz
Max. current consumption	TWIM 15/230 V: 10 A TWIM 15/110 V: 16 A
Temperature control	20-200 °C *(68-392 °F)*
Demagnetisation	The heater does not magnetise
Dimensions (w x d x h)	450 x 500 x 100 mm *(17.7 x 19.7 x 3.9 in.)*
Total weight	6,6 kg *(14.6 lb)*

[1] Depending on the geometry of the bearing, maximum heating temperature and power availability.

skf.com | mapro.skf.com | skf.com/lubrication

® SKF is a registered trademark of the SKF Group.

© SKF Group 2019
The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless prior written permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained herein.

PUB MP/P2 18555 EN · August 2019