

FAG



**FAG PowerTherm
HEATER
HEATER.PLATE**

**Desk top devices for heating
rotationally symmetric parts**

FAG PowerTherm HEATER

Correct mounting helps timely prevention of damage

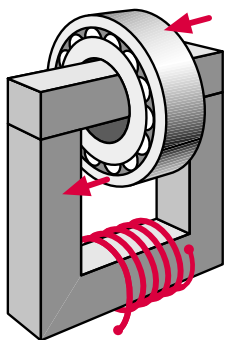


Heating?

Many rolling bearings and other rotationally symmetric steel parts are tightly fitted onto the shaft. Larger parts in particular, can be fitted more easily if they are pre-heated (rolling bearings up to a maximum of 120 °C).

Induction heating?

Induction heating is superior to traditional methods – fast, clean – ideal for batch mounting. Complete bearings, rings of cylindrical roller bearings or needle roller bearings, as well as other rotationally symmetric steel parts such as labyrinth rings, roll couplings, tyres, etc. can be heated.



Function

The heart of the induction HEATER is a current-carrying coil with an iron core (primary coil), that generates a high induction current at a low voltage, in a short-circuited secondary circuit (rolling bearings, other steel components).

The part for mounting is heated quickly; whilst non-metallic parts and the device itself remain cool.

FAG PowerTherm HEATERS

- heat parts uniformly and prevent harmful temperature differences
- work faster and are cleaner than traditional heating methods
- heat parts (micro processor controlled) to the selected temperature
- demagnetise rolling bearing steels automatically

HEATER 10

Handy, mobile device for heating small rolling bearings or other rotationally symmetric parts. Ideal for maintenance work in cars and in electrical machines.

- parts of up to 10 kg
- bore diameters from 10 mm upwards
- easy operation
- weighs only 7 kg
- convenient carry case for mobile use



The Benefits

- energy efficient, clean and environmentally friendly (no oil, and therefore no disposal cost)
- extremely cost effective
- workpieces positioned horizontally save approx. 50% of time, due to increased efficiency*
- reduced mounting times
- easier operation
- demagnetised and stress-relieved workpieces
- highly adaptable as several different ledges can be used with the apparatus
- no maintenance costs
- micro processor controlled
- protective gloves and magnetic feeler included
- three years guarantee

* not recommended for bearings with reduced clearance, e.g. C 2



HEATER 20

Mobile heating device for small rotationally symmetric parts and bearings.

- parts of up to 20 kg
- for bore diameters from 10 mm upwards
- easy operation
- weighs only 17 kg
- desk top device with sturdy, handy protective transport cover



HEATER:
Uniform,
stress-relieved
induction heating



HEATER 150

Fixed heating device with ledge. Workpieces can be positioned vertically or horizontally.

- parts of up to 150 kg
- bore diameters from 20 mm upwards
- ledge simplifies mounting parts on heater
- horizontally positioned workpieces save time
- 400 Volt technology

HEATER35

For professional mounting work in maintenance workshops and in the production sector. The ledge makes the device easier to operate and simplifies work.

- parts of up to 35 kg
- bore diameters from 15 mm upwards
- for fixed use

HEATER:
Fast,
safe
induction heating

HEATER 300

Desk top device for heating very heavy workpieces in horizontal or vertical position.

A separate trolley with tray for storing ledges is available for transporting the heating device.

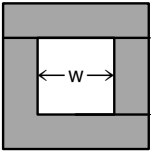
- parts of up to 300 kg
- bore diameters from 30 mm upwards
- Ledge: workpieces can be mounted on the ledge more easily and in less time
- 400 Volt technology



FAG PowerTherm HEATER

Technical data



| PowerTherm | HEATER 10 | HEATER 20 | HEATER 35 | HEATER 150 | HEATER 300 |
|---|--|---|---|--|--|
| Power consumption max. [kVA] | 2.2 | 3.5 | 3.5 | 12.8 | 12.8 |
| Voltage / frequency* | 230/50 | 230/50 | 230/50 | 400/50 | 400/50 |
| Current [A] | 10 | 16 | 16 | 32 | 32 |
| Temperature display [°C] | 50...240 | 50...240 | 50...240 | 50...240 | 50...240 |
| Mass [kg] | 7 | 17 | 31 | 51 | 127 |
| Length [mm] | 230 | 345 | 420 | 505 | 700 |
| Width [mm] | 200 | 200 | 260 | 260 | 500 |
| Height [mm] | 240 | 240 | 360 | 440 | 580 |
| Ledge(s) W x H x L included in the delivery [mm] | 15 x 15 x 25 30 x 30 x 25 46 x 40 x 45 | 14 x 14 x 200 25 x 25 x 200 40 x 40 x 200 | 50 x 50 x 280 | 70 x 70 x 350 | 80 x 80 x 490 |
|  | | | | | |
| clear width w [mm] | 65 | 120 | 180 | 210 | 390 |
| clear height h [mm] | 120 | 100 | 160 | 215 | 300 |
| Workpiece mass max. [kg] | 10 | 20 | 35 | 150 (horizontal only) | 300 (horizontal only) |
| Ledges (accessories) WxHxL [mm] | 7 x 7 x 105 10 x 10 x 105 | 7 x 7 x 200 10 x 10 x 200 30 x 30 x 200 | 10 x 10 x 280 14 x 14 x 280 25 x 25 x 280 30 x 30 x 280 40 x 40 x 280 | 14 x 14 x 350 20 x 20 x 350 30 x 30 x 350 40 x 40 x 350 50 x 50 x 350 60 x 60 x 350 | 20 x 20 x 490 30 x 30 x 490 40 x 40 x 490 50 x 50 x 490 60 x 60 x 490 70 x 70 x 490 |

* other voltages/frequencies on request

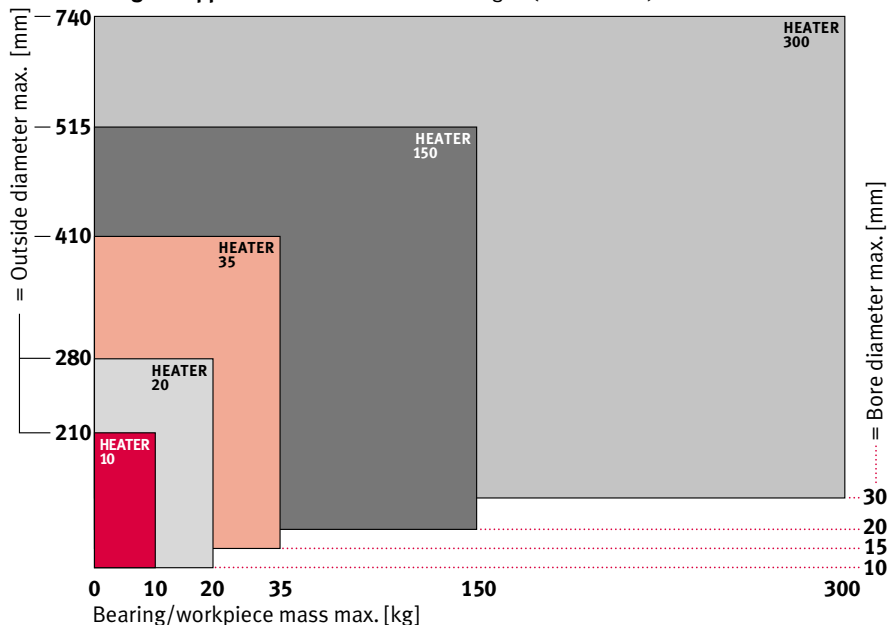
⊙ = Workpiece bore min. [mm]

The right heating device for each application!

Five desktop induction heating devices, for mobile and/or fixed use, make it easier to mount workpieces weighing up to 300 kg. FAG will assist you to incorporate them into your production process. Extremely powerful fixed devices are available for workpieces weighing 300 to 3,000 kg.

We will be happy to quote you on your specific application!

Range of application of HEATERS with ledges (accessories)



FAG PowerTherm HEATER.PLATE

The alternative

HEATER.PLATE

Favourably priced electric heating plate for heating small rolling bearings and small machine elements (e.g. sealing rings).

- uniform, clean heating under protective cover
- no maintenance required
- continuous temperature adjustment between 50 and 200 °C
- easy operation
- suitable for rolling bearings as well as labyrinth rings, shrink-on rings and sealing rings



The Benefits

- an affordable price
- no maintenance required
- clean, environmentally friendly heating (no oil, and therefore no disposal cost)
- easy and safe operation

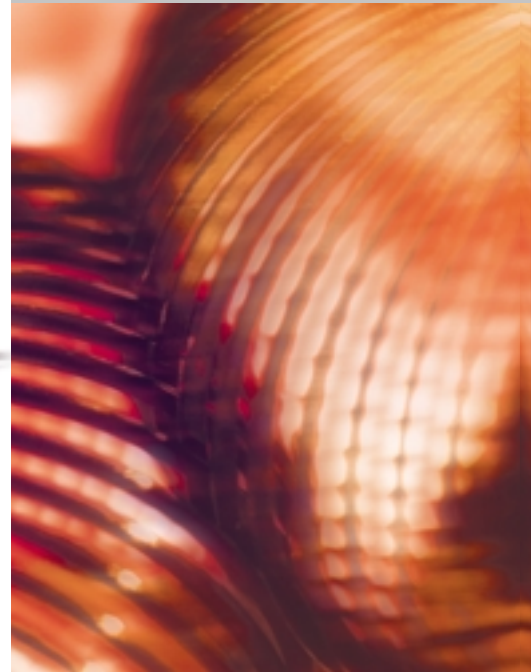
The FAG PowerTherm HEATER makes your mounting work easier and prevents damage!

Technical data

HEATER.PLATE

| | |
|--------------------------------|--------------------|
| Power consumption max. | 1,500 W |
| Voltage / frequency | 230 V / 50 Hz * |
| Heating range | 50 - 200 °C |
| Heating precision | < 10 °C |
| Plate dimensions (L x W) | 380 x 180 mm |
| Protective cover height | 60 mm |
| Dimensions (L x W x H) | 390 x 270 x 156 mm |
| Mass | 5.6 kg |
| Length of the connecting cable | 2.20 m |
| Workpiece mass | max. 5 kg |

* also available for 115 V / 60 Hz



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