

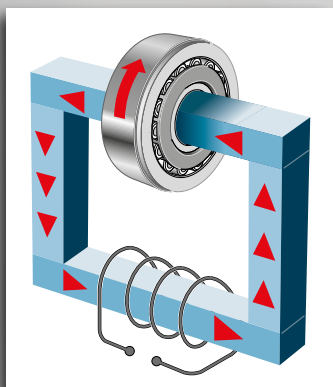
# EDDYTHERM<sup>®</sup>

Professional induction bearing heaters:  
Fast, easy and reliable



### Why shrink fitting?

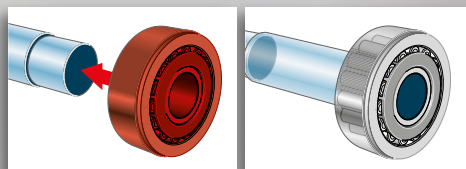
Proper shrink fitting extends the life of roller bearings by several times. Nearly half of all reduced bearing life expectancy is due to improper installation. Mechanical methods such as hammers and hydraulic presses risk damaging the inside surface of the inner ring and the bearing races. The better shrink fitting solution is via induction heating.



### The process

EDDYTHERM® utilizes the induction principle as in transformers – its core and windings can be seen as the primary side, but the workpiece acts as a short-circuited secondary winding, which rapidly heats up due to its great electrical resistance.

This phenomenon allows EDDYTHERM® to control heating by continuously monitoring the workpiece temperature and adjusting its own heating power accordingly. This ensures that the workpiece is heated evenly and the selected temperature is achieved precisely. The crossbar itself remains cool to touch.



The magnetic flux created around the core induces a current flow in the workpiece and heat is rapidly and equally generated.



## Advantages at a glance

### Robust industrial design

- ▶ Equipment for workshop use
- ▶ Heavy-duty construction
- ▶ Suitable to use with work gloves

### Environmentally friendly

- ▶ Energy saving
- ▶ No smoke or oil vapour

### Safety

- ▶ Automatic error detection
- ▶ Thermal overload protection

### Saves bearings

- ▶ No contamination of factory prelubrication
- ▶ Precision ground crossbars reduce vibration, preventing chatter marks on bearings

### Demagnetization

All EDDYTHERM® heaters demagnetize workpieces automatically at the end of every heating cycle with no residual magnetism to collect debris.

# EDDYTHERM®

the logical approach to shrink fitting of bearings, gears, couplings, impellers, crane wheels, rings, sleeves, etc.

## EDDYTHERM® Portable

- ▶ Suitable for bearings up to 10 kg
- ▶ Portable and compact induction heater
- ▶ Magnetic temperature probe up to 180°C
- ▶ Available options: Voltage from 100 - 230 V and frequency 50/60 Hz
- ▶ No support yoke required
- ▶ High frequency technology for outstanding heating performance
- ▶ Predictive temperature control (no overheating)



## EDDYTHERM® 2x

- ▶ Suitable for bearings up to 80 kg
- ▶ Magnetic temperature probe up to 250°C
- ▶ Available options: Voltage from 200 - 575 V and frequency 50/60 Hz
- ▶ Swivel arm
- ▶ 3 yokes of different sizes



## EDDYTHERM® 4x

- ▶ Suitable for bearings up to 300 kg
- ▶ Compact and flexible with movable stand
- ▶ Magnetic temperature probe up to 240°C
- ▶ Available options: Voltage from 200 - 600 V and frequency 50/60 Hz



## User-oriented, easy operation

- ▶ Temperature and time selection
- ▶ Temperature display in °C or °F
- ▶ Digital display of set and actual value
- ▶ Acoustic signal at the end of heating cycle
- ▶ Dust, oil and water-resistant operator panel
- ▶ Straightforward operation
- ▶ Automatic demagnetizing



## Temperature probe

- ▶ Magnetic temperature probe up to 250°C (depending on model)
- ▶ Thermal overload protection



for Portable and 2x models

# EDDYTHERM® – technical data



	<b>EDDYTHERM® Portable</b>	<b>EDDYTHERM® 2x</b>	<b>EDDYTHERM® 4x</b>
Voltage <sup>1)</sup>	100V-230V <sup>1)</sup> / 50-60Hz	200V-575V <sup>1)</sup> / 50-60Hz	200-600V <sup>1)</sup> / 50-60Hz
Power consumption	max. 1.5 kVA	max. 4.6 kVA	max.14 kVA
Workpiece max. weight	10 kg	80 kg	300 kg
Workpiece bore diameter	inside > 20 mm/outside < 160 mm	inside > 20 mm/outside < 400 mm	inside > 79 mm/outside < 640 mm
Thermal overload protection	yes	yes	yes
Temperature control	up to 180°C	up to 250°C	up to 240°C
Temperature accuracy	better than 3°C	better than 3°C	better than 3°C
Time setting	0-10 Min.	0-60 Min.	0-60 Min.
Residual magnetism after heating	< 2 A/cm	< 2 A/cm	< 2 A/cm
Power throttling	yes	yes	yes
Error display	yes	yes	yes
Dimensions (W x D x H)	420 x 280 x 345 mm	420 x 280 x 420 mm	1120 x 550 x 960 mm
Distance between posts	-	120 mm	270 mm
Weight (Standard version)	3.5 kg	38 kg	150-174 kg
<b>Standard equipment and optional accessories</b>			
Crossbar for bearing inner diameter			
> $\phi$ 15 mm / 5/8"	-	○	-
> $\phi$ 20 mm / 3/16"	-	●	-
> $\phi$ 30 mm / 1 3/16"	-	○	-
> $\phi$ 40 mm / 1 1/2"	-	●	○
> $\phi$ 60 mm / 2 1/8"	-	○	○
> $\phi$ 80 mm / 3 1/8"	-	●	○
> $\phi$ 108 mm / 4 1/4"	-	-	●
Temperature probe, magnetic holder	●	●	●
Temperature probe, clip-type	-	-	○
<sup>1)</sup> Indicate voltage when ordering ○ Optional ● Standard equipment			

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