

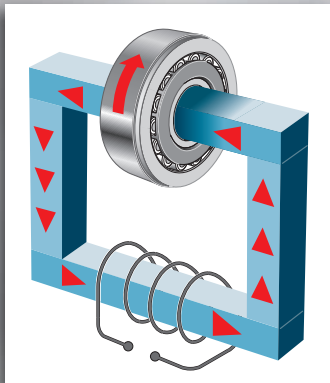
# EDDYTHERM®

Professional induction bearing heaters:  
Fast, easy and reliable



### Why shrink fitting?

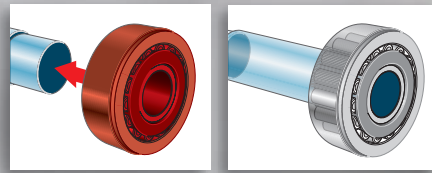
Proper shrink fitting extends the life of roller bearings by several times. Nearly half of all reduced bearing life expectancy is due to improper installation. Mechanical methods such as hammers and hydraulic presses risk damaging the inside surface of the inner race and the shaft surfaces. The better 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, oil vapor or used oil

#### 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 22 lbs
- ▶ Portable and compact induction heater
- ▶ Magnetic temperature probe up to 356°F included
- ▶ Available options: Voltage from 100-230 V and frequency 50/60 Hz
- ▶ No support crossbar required
- ▶ High frequency technology for outstanding heating performance
- ▶ Predictive temperature control (no overheating)



### EDDYTHERM® 2x

- ▶ Suitable for bearings up to 176 lbs
- ▶ Magnetic temperature probe up to 482°F included
- ▶ Available options: Voltage from 110-480 V and frequency 50/60 Hz
- ▶ Swivel arm
- ▶ 3 crossbars of different sizes



### EDDYTHERM® 4x

- ▶ Suitable for bearings up to 660 lbs
- ▶ Mobile frame on heavy casters
- ▶ Magnetic temperature probe up to 464°F included
- ▶ 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



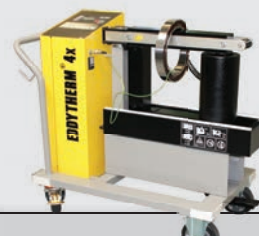
### Temperature probe

- ▶ Magnetic temperature probe up to 482°F (depending on model)
- ▶ Thermal overload protection



for Portable and 2x models

# EDDYTHERM® – technical data



	EDDYTHERM® Portable	EDDYTHERM® 2x	EDDYTHERM® 4x
Voltage <sup>1)</sup>	100V-230V <sup>1)</sup> / 50-60Hz	110V-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/22 lbs	80 kg/176 lbs	300 kg/660 lbs
Workpiece bore diameter	inside > 3/4"/outside < 6 1/4"	inside > 3/4"/outside < 15 3/4"	inside > 3 1/16"/outside < 25"
Thermal overload protection	yes	yes	yes
Temperature control	up to 356°F	up to 482°F	up to 464°F
Temperature accuracy	better than 6°F	better than 6°F	better than 6°F
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)	16 1/2" x 11" x 13 1/2"	16 1/2" x 11" x 16 1/2"	44" x 21 2/3" x 37 4/5"
Distance between posts	-	5 7/10"	10 5/8"
Weight (Standard version)	3,5 kg/8 lbs	38 kg/84 lbs	150-174 kg/330-385 lbs
<b>Standard equipment and optional accessories</b>			
Crossbar for bearing inner diameter			
> φ 15 mm/ 5/8"	-	○	-
> φ 20 mm/ 3/16"	-	●	-
> φ 30 mm/ 1 3/16"	-	○	-
> φ 40 mm/ 1 1/2"	-	●	○
> φ 60 mm/ 2 1/8"	-	○	○
> φ 80 mm/ 3 1/8"	-	●	○
> φ 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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