

EDDYTHERM[®]

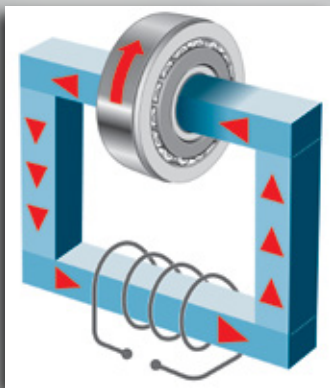
Professional induction bearing heaters:
Fast, easy and reliable



Extend bearing life with proper shrink fitting

Why shrink fitting?

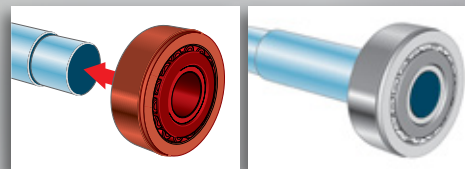
Proper shrink fitting extends the life of roller bearings by several times. Nearly half of all reduced bearing life expectancy is due to improper installation. Mechanical methods such as hammers and hydraulic presses risk damaging the inside surface of the inner ring and the bearing races. The better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



The process

EDDYTHERM® utilizes the induction principle as in transformers – its core and windings can be seen as the primary side, but the work piece 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 work piece temperature and adjusting its own heating power accordingly. This results in even heating of the inner bearing ring according to the set temperature. The heater itself remains cool to touch.



The magnetic flux created around the core induces a current flow in the work piece 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 loss of factory prelubrication
- ▶ Precision ground crossbars prevent chatter marks on bearings from vibration



EDDYTHERM® product line

EDDYTHERM® Portable

- ▶ Suitable for bearings up to 10 kg
- ▶ Portable and compact induction heater
- ▶ Standard equipment with 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
- ▶ Standard equipment with 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
- ▶ Standard equipment with magnetic temperature probe up to 240°C
- ▶ Available options: Voltage from 200–600 V and frequency 50/60 Hz



User oriented, easy operation

- ▶ Clearly arranged operator panel
- ▶ 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



Temperature probe

- ▶ Magnetic temperature probe up to 250°C
- ▶ Thermal overload protection



EDDYTHERM® – technical data



	EDDYTHERM® Portable	EDDYTHERM® 2x	EDDYTHERM® 4x
Voltage ¹⁾	100V – 230V ^{1)/} 50 – 60Hz	200V – 575V ^{1)/} 50 – 60Hz	200 – 600V ^{1)/} 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
Continuous operation	no	no	optional
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
Standard equipment and optional accessories			
Crossbar for bearing inner dia.			
> ϕ 20 mm	–	●	–
> ϕ 40 mm	–	●	–
> ϕ 60 mm	–	–	○
> ϕ 80 mm	–	●	–
> ϕ 108 mm	–	–	●
Temperature probe, magnetic holder	●	●	●
clip-type	–	–	○
¹⁾ Indicate voltage when ordering ○ Optional ● Standard equipment			

EDDYTHERM® is a registered trademark of PRÜFTECHNIK Dieter Busch AG. No copying or reproduction of this information, in any form whatsoever, may be undertaken without express written permission of PRÜFTECHNIK Alignment Systems GmbH. The information contained in this leaflet is subject to change without further notice due to the PRÜFTECHNIK policy of continuous product development. PRÜFTECHNIK products are subject to patents granted or pending throughout the world. ISO 9001:2008 certified. © Copyright 2012 by PRÜFTECHNIK AG.



PRÜFTECHNIK
 Alignment Systems GmbH
 Freisinger Str.34
 85737 Ismaning
 Germany
 Tel.: +49 89 99616-0
 Fax: +49 89 99616-100
 info@pruftechnik.com
 www.pruftechnik.com

A member of the PRÜFTECHNIK group