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EASYTHERM

HIGH QUALITY
LOW FREQUENCY
INDUCTION HEATERS



TENSION-FREE MOUNTING

| CONTROLLABLE

| SAFE

| FAST

| CLEAN



ISO 9001:2008
ID 9108623968
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TM
INDUCTION HEATING

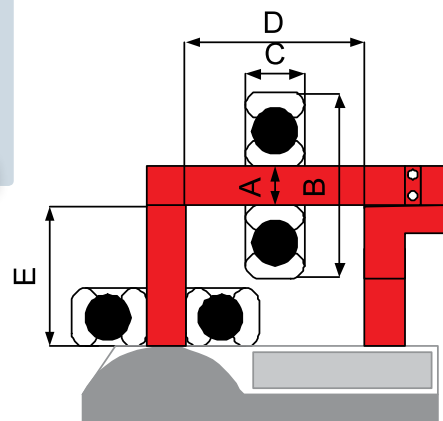
TM Induction Heating has manufactured induction heaters for more than 25 years, under the brand name "TM Induction Heating". Induction heaters for heating up bearings, bushings, gears, pulleys and couplings. Through constant innovation and our extensive experience we are able to offer a technical and reliable product.

Workflow advantages

- ▶ Fast controllable heating process
- ▶ Safe heating process; only the work piece is heated
- ▶ Elimination of hot oil bath, no risk of localized overheating
- ▶ Suitable for sealed and shielded bearings
- ▶ Suitable for pre-greased bearings
- ▶ Suitable for bearings with polyamide cages

Technical advantages

- ▶ Fast heating process through high output; $\cos \phi > 0,8$
- ▶ In the horizontal position your workpiece will heat up twice as fast
- ▶ The heating coil is placed horizontal under the part
- ▶ Because of the horizontal placement it is impossible to damage the coil
- ▶ Ensuring an equal temperature in your workpiece
- ▶ Continuously useable without any optional cooling system
- ▶ Constant monitoring of heating process using a probe and microprocessor
- ▶ Maintenance free
- ▶ Three years warranty
- ▶ Easy to use; user friendly design
- ▶ Ergonomic design (pivoting yoke principle)
- ▶ Automatic power regulation, no manual pre-setting necessary
- ▶ Less than 2A/cm residual magnetism
- ▶ Manufactured and tested according to the CE, UL and GS Regulations



The following measurements for heater and parts are used in this brochure.

EASY THERM 1

The Easytherm 1 is a small and handy microprocessor controlled induction heater for heating of small sized components including bearings up to 10 kg. It is easy to use and portable, complete with a carry bag, ideal to use on location.



Voltage	110 - 230Vac
Frequency	50 / 60Hz
Power	3.6kVA
Heater mass	7 kg / 15 lbs
Dimensions	225x200x245mm 8.86"x7.87"x9.65"
Max. temperature	240°C / 464°F
Width U-core (D)	65mm / 2.56"
Height U-core (E)	115mm / 4.53"

Size induction yokes (mm / inch)	Min. bore part (A)	Max. outer diameter part (B)	Max. width part (C)	Max. weight part
7x7x125 / 0.28x0.28x4.92 *	10mm / 0.39"	200mm / 7.87"	60mm / 2.36"	10 kg / 22 lbs
10x10x125 / 0.39x0.39x4.92	15mm / 0.59"	200mm / 7.87"	60mm / 2.36"	10 kg / 22 lbs
14x14x125 / 0.55x0.55x4.92	30mm / 1.18"	200mm / 7.87"	60mm / 2.36"	10 kg / 22 lbs
30x30x125 / 1.18x1.18x4.92	45mm / 1.77"	200mm / 7.87"	95mm / 3.74" (E)	10 kg / 22 lbs

* = optional

The Easytherm 2 is a small powerful microprocessor controlled induction heater for heating of small sized components including bearings up to 40 kg. The robust case is optional and makes it ideal to use on location.

Voltage	110 - 230Vac
Frequency	50 / 60Hz
Power	3.6kVA
Heater mass	17 kg / 37 lbs
Dimensions	345x200x240mm 13.58"x7.87"x9.45"
Max. temperature	240°C / 464°F
Width U-core (D)	120mm / 4.72"
Height U-core (E)	100mm / 3.94"



EASY THERM 2



Size induction yokes (mm / inch)	Min. bore part (A)	Max. outer diameter part (B)	Max. width part (C)	Max. weight part
7x7x200 / 0.28x0.28x7.87 *	10mm / 0.39"	207mm / 8.15"	120mm / 4.72"	3 kg / 6.6 lbs
10x10x200 / 0.39x0.39x7.87 *	15mm / 0.59"	210mm / 8.27"	120mm / 4.72"	5 kg / 11 lbs
14x14x200 / 0.55x0.55x7.87	20mm / 0.79"	215mm / 8.46"	120mm / 4.72"	15 kg / 33 lbs
24x25x200 / 0.94x0.98x7.87	35mm / 1.38"	225mm / 8.86"	120mm / 4.72"	25 kg / 55 lbs
38x40x200 / 1.5x1.57x7.87	55mm / 2.17"	290mm / 11.42"	120mm / 4.72"	40 kg / 88 lbs

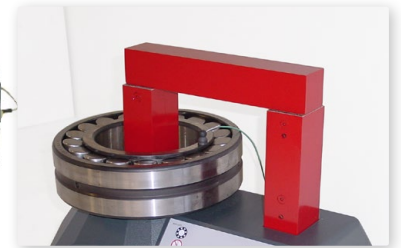
* = optional

3.5

Voltage	110 - 230Vac
Frequency	50 / 60Hz
Power	3.6kVA
Heater mass	31 kg / 68 lbs
Dimensions	420x260x380mm 16.54"x10.24"x14.96"
Max. temperature	240°C / 464°F
Width U-core (D)	180mm / 7.09"
Height U-core (E)	180mm / 7.09"



The Easytherm 3.5 is an induction heater with an ergonomic pivoting yoke. To be used for the professional mounting of a range of parts, including bearings. The Easytherm 3.5 is also available without pivoting yoke.



Size induction yokes (mm / inch)	Min. bore part (A)	Max. outer diameter part (B)	Max. width part (C)	Max. weight part
10x10x280 / 0.39x0.39x11.02 **	15mm / 0.59"	330mm / 12.99"	180mm / 7.09"	5 kg / 11 lbs
14x14x280 / 0.55x0.55x11.02 **	20mm / 0.79"	345mm / 13.58"	180mm / 7.09"	15 kg / 33 lbs
24x25x280 / 0.94x0.98x11.02	35mm / 1.38"	355mm / 13.98"	180mm / 7.09"	25 kg / 55 lbs
28x30x280 / 1.1x1.18x11.02	40mm / 1.57"	355mm / 13.98"	180mm / 7.09"	30 kg / 66 lbs
38x40x280 / 1.5x1.57x11.02	55mm / 2.17"	360mm / 14.17"	180mm / 7.09"	40 kg / 88 lbs
49x50x280 / 1.93x1.97x11.02	70mm / 2.76"	410mm / 16.14"	180 mm / 7.09 "	35-70 kg / 77-154 lbs

** = non-pivoting

15

The Easytherm 15 is a powerful 400 Volt stationary microprocessor controlled induction heater with an ergonomic pivoting yoke, to be used for the professional mounting of a range of parts including bearings, typically used in maintenance shops and production areas.

Voltage	380 - 480Vac
Frequency	50 / 60Hz
Power	12.8kVA
Heater mass	51 kg / 112 lbs
Dimensions	505x260x470mm 19.88"x10.24"x18.50"
Max. temperature	240 / 400°C 464 / 752°F
Width U-core (D)	210mm / 8.27"
Height U-core (E)	245mm / 9.65"



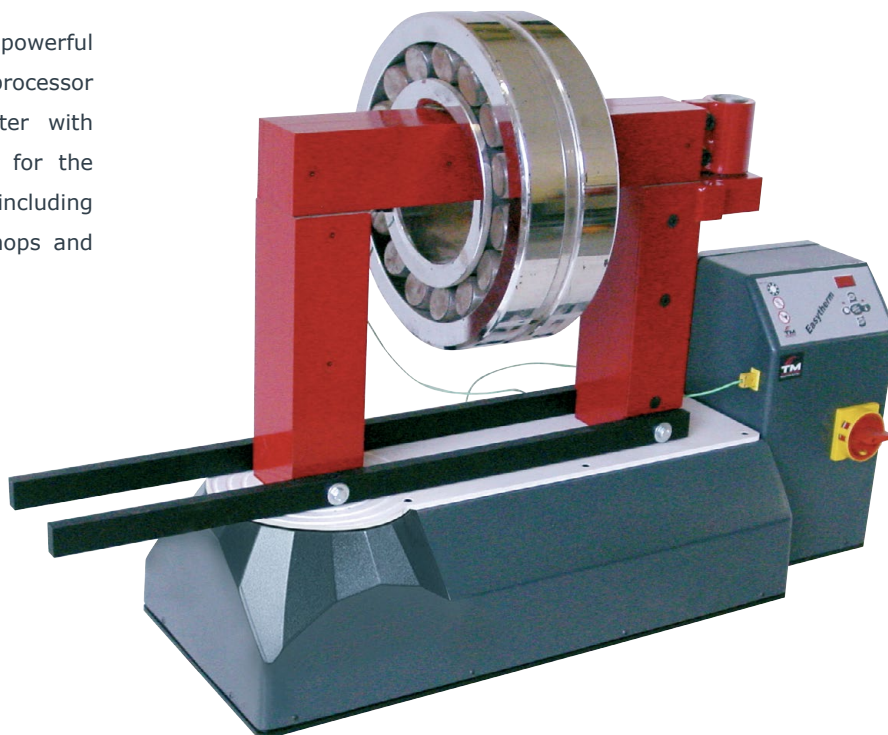
Size induction yokes (mm / inch)	Min. bore part (A)	Max. outer diameter part (B)	Max. width part (C)	Max. weight part
20x20x350 / 0.79x0.79x13.78	30mm / 1.18"	460mm / 18.11"	210mm / 8.27"	15 kg / 33 lbs
28x30x350 / 1.1x1.18x13.7	40mm / 1.77"	475mm / 18.70"	210mm / 8.27"	20 kg / 44 lbs
38x40x350 / 1.5x1.57x13.78	55mm / 2.16"	485mm / 19.09"	210mm / 8.27"	25 kg / 55 lbs
49x50x350 / 1.97x1.97x13.78	70mm / 2.76"	500mm / 19.69"	210mm / 8.27"	35 kg / 77 lbs
60x60x350 / 2.36x2.36x13.78	85mm / 3.35"	515mm / 20.28"	210mm / 8.27"	60 kg / 132 lbs
70x70x350 / 2.76x2.76x13.78	100mm / 3.94"	515mm / 20.28"	210mm / 8.27"	150 kg / 330 lbs

** = non-pivoting

30

The Easytherm 30 is a powerful 400 Volt stationary microprocessor controlled induction heater with an ergonomic pivoting yoke, to be used for the professional mounting of a range of parts including bearings, typically used in maintenance shops and production areas.

Voltage	380 - 480Vac
Frequency	50 / 60Hz
Power	12.8kVA
Heater mass	60 kg / 132 lbs
Dimensions	880x320x570mm 34.65"x12.60"x22.44"
Max. temperature	240°C / 464°F
Width U-core (D)	330mm / 12.99"
Height U-core (E)	295mm / 11.61"



Size induction yokes (mm / inch)	Min. bore part (A)	Max. outer diameter part (B)	Max. width part (C)	Max. weight part
20x20x490 / 0.79x0.79x19.29	30mm / 1.18"	620mm / 24.41"	330mm / 12.99"	15 kg / 33 lbs
28x30x490 / 1.1x1.18x19.29	45mm / 1.77"	630mm / 24.80"	330mm / 12.99"	20 kg / 44 lbs
38x40x490 / 1.5x1.57x19.29	55mm / 2.17"	640mm / 25.20"	330mm / 12.99"	25 kg / 55 lbs
49x50x490 / 1.93x1.97x19.29	70mm / 2.76"	650mm / 25.59"	330mm / 12.99"	35 kg / 77 lbs
60x60x490 / 2.36x2.36x19.29	85mm / 3.35"	660mm / 25.98"	330mm / 12.99"	60 kg / 132 lbs
70x70x490 / 2.76x2.76x19.29	100mm / 3.94"	670mm / 26.38"	330mm / 12.99"	80 kg / 176 lbs
80x80x490 / 3.15x3.15x19.29	115mm / 4.53"	740mm / 29.13"	330mm / 12.99"	300 kg / 661 lbs

30 + trolley

With the trolley the Easytherm 30 can easily be assembled into a movable model. The large castors make it easily movable and allow the unit to be used where needed.



Voltage	380 - 480Vac
Frequency	50 / 60Hz
Power	12.8kVA
Heater mass	85 kg / 187 lbs
Dimensions	1060x500x1090mm 41.73"x19.69"x42.91"
Max. temperature	240°C / 464°F
Width U-core (D)	330mm / 12.99"
Height U-core (E)	295mm / 11.61"

Extension yokes



Using an extension yoke it is possible for the user to heat a workpiece with a larger maximum outer diameter, on a relatively small heater.

Type heater	Measurements (mm / inch)	Max. outer diameter part
Easytherm 2	40x50x75 / 1.57x1.97x2.95	375mm / 14.76"
Easytherm 3.5	50x50x120 / 1.97x1.97x4.72	600mm / 23.62"
Easytherm 15	70x70x150 / 2.76x2.76x5.91	770mm / 30.31"
Easytherm 15	70x70x200 / 2.76x2.76x7.87	870mm / 34.25"
Easytherm 30	80x80x150 / 3.15x3.15x5.91	980mm / 38.58"
Easytherm 30	80x80x200m / 3.15x3.15x7.87	1080mm / 42.52"

60



The operating panel rotates, this allows the user to view the heating process from every angle.



Voltage	380 - 480Vac
Frequency	50 / 60Hz
Power	25kVA
Heater mass	350 kg / 771 lbs
Dimensions	780x1200x1060mm 30.71"x47.24"x41.73"
Max. temperature	240°C / 464°F
Width U-core (D)	440mm / 17.32" *
Height U-core (E)	390mm / 15.35" *

* Other measurements on request

The Easytherm 60 is a robust powerful 400 Volt stationary induction heater, to be used for the professional mounting of heavy parts including bearings, typically used in maintenance shops and production areas.

With easy to mount lift installation for the parts, the Easytherm 60 can be assembled to an ergonomic production machine (see optional parts).

Size induction yokes (mm / inch)	Min. bore part (A)	Max. outer diameter part (B)	Max. width part (C)	Max. weight part
30x30x700 / 1.18x1.18x27.56	45mm / 1.77"	830mm / 32.68"	410mm / 16.14"	700 kg / 1543 lbs
38x40x700 / 1.5x1.57x27.56	55mm / 2.17"	840mm / 33.07"	410mm / 16.14"	700 kg / 1543 lbs
49x50x700 / 1.93x1.97x27.56	70mm / 2.76"	850mm / 33.46"	410mm / 16.14"	700 kg / 1543 lbs
60x60x700 / 2.36x2.36x27.56	85mm / 3.35"	860mm / 33.86"	410mm / 16.14"	700 kg / 1543 lbs
70x70x700 / 2.76x2.76x27.56	100mm / 3.94"	870mm / 34.25"	410mm / 16.14"	700 kg / 1543 lbs
80x80x700 / 3.15x3.15x27.56	115mm / 4.53"	880mm / 34.65"	410mm / 16.14"	700 kg / 1543 lbs
90x90x700 / 3.54x3.54x27.56	130mm / 5.12"	890mm / 35.04"	410mm / 16.14"	700 kg / 1543 lbs
100x100x700 / 3.94x3.94x27.56	145mm / 5.71"	900mm / 35.43"	410mm / 16.14"	700 kg / 1543 lbs

OPTIONAL PARTS for Easytherm 60 and 100



Trolley

With the trolley the Easytherm 60 and 100 can be assembled easily to a movable model. The large robust castors make it movable and allow the unit to be used where needed.

Lifting device

The lifting device makes it possible to lift the heavier induction yokes. With this device an external elevating crane is not needed.



Hoist attachment points

The 4 hoist attachment points make it easier to move the heater with a crane in the factory.



100

The Easytherm 100 is a robust powerful 400 Volt stationary induction heater, to be used for the professional mounting of heavy parts . With easy to mount lift installation and rail system for the parts, the Easytherm 100 can be assembled to an ergonomic production machine (see optional parts).

Voltage	380 - 575Vac
Frequency	50 / 60Hz
Power	40kVA
Heater mass	800 kg / 1763 lbs
Dimensions	1200x1700x1250mm 47.24"x66.93"x49.21"
Max. temperature	240°C / 464°F
Width U-core (D)	470mm / 18.50" *
Height U-core (E)	690mm / 27.17" *

* Other measurements on request



The operating panel rotates, this allows the user to view the heating process from every angle.

Size induction yokes (mm / inch)	Min. bore part (A)	Max. outer diameter part (B)	Max. width part (C)	Max. weight part
60x60x850 / 2.36x2.36x33.46	85mm / 3.35"	1500mm / 59.06"	470mm / 18.50"	1250 kg / 2755 lbs
80x80x850 / 3.15x3.15x33.46	115mm / 4.53"	1500mm / 59.06"	470mm / 18.50"	1250 kg / 2755 lbs
100x100x850 / 3.94x3.94x33.46	145mm / 5.71"	1500mm / 59.06"	470mm / 18.50"	1250 kg / 2755 lbs
150x150x850 / 5.91x5.91x33.46	215mm / 8.46"	1500mm / 59.06"	470mm / 18.50"	1250 kg / 2755 lbs

250

The Easytherm 250 is a very robust and powerful 400 Volt stationary microprocessor controlled induction heater, to be used for the professional mounting of a range of heavy parts including bearings up to 3000 kg. The Easytherm 250 is a custom made product, parts up to 10.000 kg can be heated up with a modification of the coil. When press mounting is not an option the Easytherm 250 offers the solution.

Voltage	380 - 480Vac
Frequency	50 / 60Hz
Power	100kVA
Heater mass	1800 kg / 3968 lbs
Dimensions	1500x3000x2000mm 59.06"x118.11"x78.74"
Max. temperature	240°C / 464 °F
Width U-core (D)	750mm / 29.53" *
Height U-core (E)	1000mm / 39.37" *

* Other measurements on request



Size induction yokes (mm / inch)	Min. bore part (A)	Max. outer diameter part (B)	Max. width part (C)	Max. weight part
100x100x1250 / 3.94x3.94x49.21	145mm / 5.71"	2000mm / 78.74"	620mm / 24.41"	3000 kg / 6613 lbs
150x150x1250 / 5.91x5.91x49.21	215mm / 8.46"	2000mm / 78.74"	620mm / 24.41"	3000 kg / 6613 lbs
200x200x1250 / 7.87x7.87x49.21	284mm / 11.18"	2000mm / 78.74"	620mm / 24.41"	3000 kg / 6613 lbs

Intelligent electronic unit



- Display
- Increase temperature
- Start or stop the heating process
- Decrease temperature

Interface for Easytherm 1 and 2



- Display
- Increase temperature or time
- Start or stop the heating process
- Decrease temperature or time
- Temperature Mode
- Time Mode

Interface for Easytherm 3.5 and onwards

Electronic unit

- ▶ Intelligent programmable electronic unit
- ▶ Possible to set time* and temperature to heat up big parts uniform
- ▶ Safe: count down before the heater start
- ▶ Temperature control accuracy +/- 2°C
- ▶ Timer* accuracy 0,01 sec
- ▶ Power can be set manual from 0-100%

** not available on Easytherm 1 and 2*

Uniform heating

To provide controllable heating by the setting of a "ramp", specially developed for the heating of gears and bearings. The user can set the temperature and time; the heater will heat the part exactly to the set temperature in the set time. The major advantage this provides is the temperature differential between the internal and external component material remains low thus reducing the potential for material stress accumulation and subsequent potential distortional damage.

Remote control

One of our optional devices is the infrared remote control. This remote control allows the user to start the heating cycle from a distance. An induction heater produces an electromagnetic field in a coil to transfer energy to a workpiece to be heated. Even though this magnetic field is relatively small with our induction heaters, some of our clients choose for an extra layer of safety by purchasing a remote control.

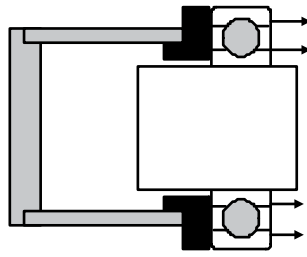
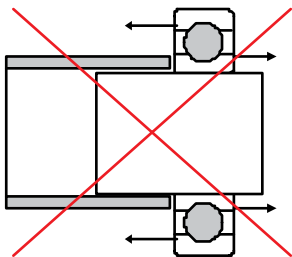


FITTING TOOL SET

For a safe, precise and quick mechanical mounting of bearings, bushings, sealing rings and pulleys. This set is usable for fitting more than 230 sizes of bearings with a bore from 10 to 50mm. The set consist of three special aluminium impact sleeves, 33 synthetic impact-resistant collets and a dead blow hammer, delivered in a robust plastic case.



For bearings it is important that during mechanical mounting the bearing is supported on its inner- and outer ring to avoid unnecessary damage. In this way mounting forces are not transmitted via balls or rollers of the bearing. Through the use of impact resistant synthetic collets metal to metal contact is avoided.



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