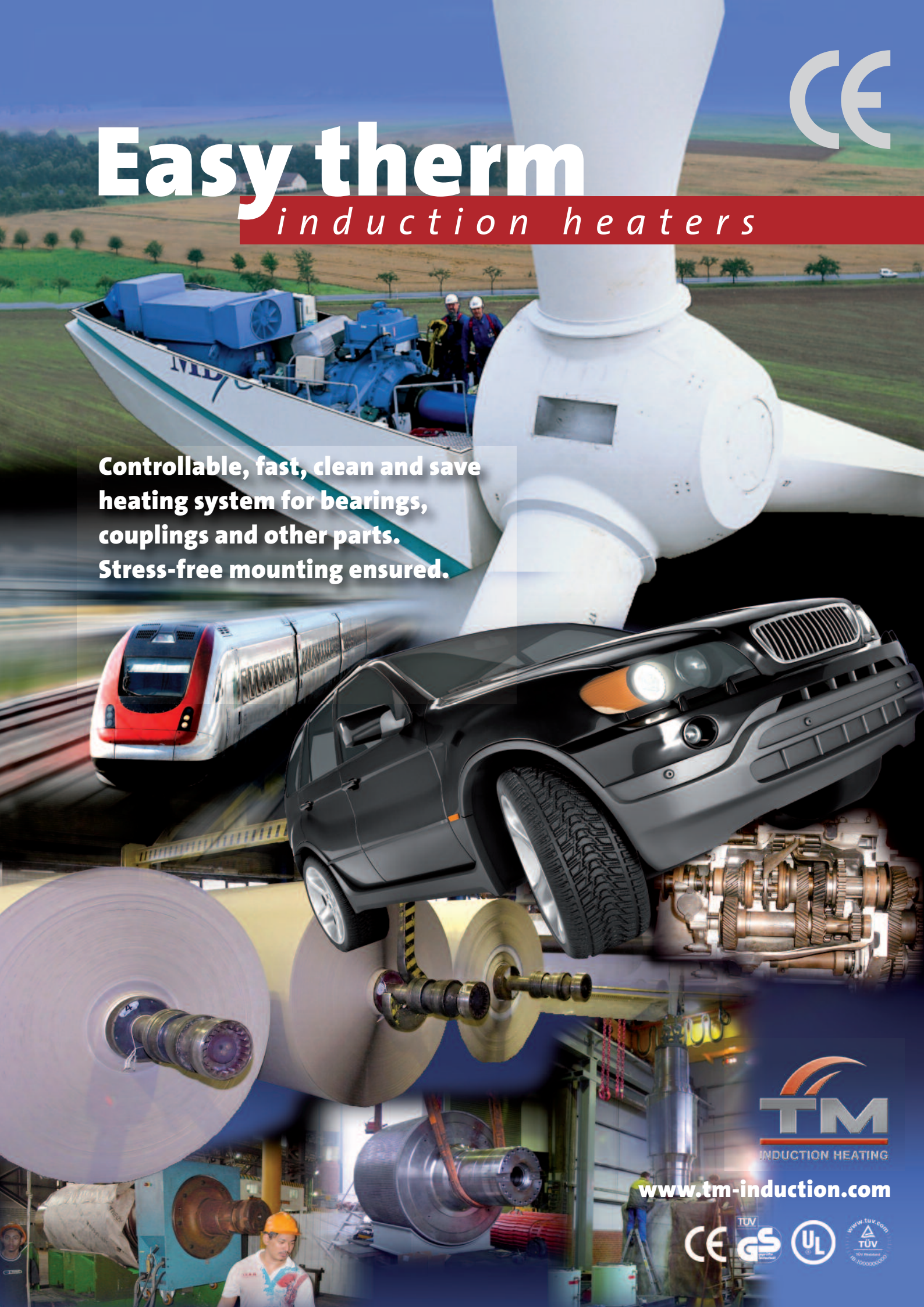




Easy therm

induction heaters

Controllable, fast, clean and save heating system for bearings, couplings and other parts. Stress-free mounting ensured.



www.tm-induction.com



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.

The Pioneers in the use of induction applications

Number 1 in advicement and service

Advantages of TM Easy therm induction heaters:

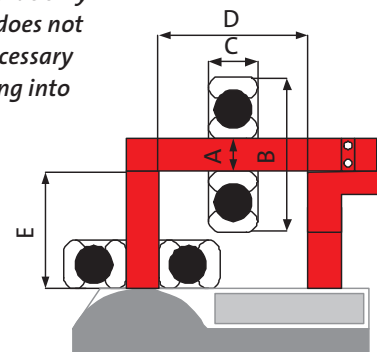
- Fast controllable heating process.
- Safe heating process; only the work piece is heated.
- Elimination of hot oil bath, no risk of localized overheating.
- Suitable for sealed and shielded bearings.
- Suitable for pre-greased bearings.
- Suitable for bearings with polyamide cages.

Technical advantages of TM Easy therm induction heaters:

- Manufactured and tested according to the **CE, UL and GS** Regulations.
- Intelligent programmable electronic unit:
 - Possible to set time and temperature to heat up big parts uniform;
 - Safe: count down before the heater start, or IR remote control;
 - Temperature control accuracy +/- 2°C;
 - Timer accuracy 0,01 sec;
 - Power can be set manual from 0-100%.
- Fast heating process through high output; **Cos phi > 0,8**.
- **"TURBO-BOOST"**: In the horizontal position the parts will heat up twice as fast.
- The heating coil is placed horizontal under the part:
 - By this it is impossible to damage the coil;
 - This ensures an equal temperature all over the part (inner- and outer ring);
 - This makes it able to heat up parts with smaller bores.
- All heaters are **continuously useable** without any optional cooling system.
- Constantly monitoring heating process by probe and microprocessor.
- Temperature control accuracy +/- 2°C.
- Timer accuracy 0,01 sec.
- 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.

The pivoting yoke has the great advantage that only the work piece is handled, because the arm does not have to be lifted manually. This avoids unnecessary handling and reduces the risk of dirt intruding into the bearing or work piece.

Measurements heaters and parts:



Easy therm 1

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



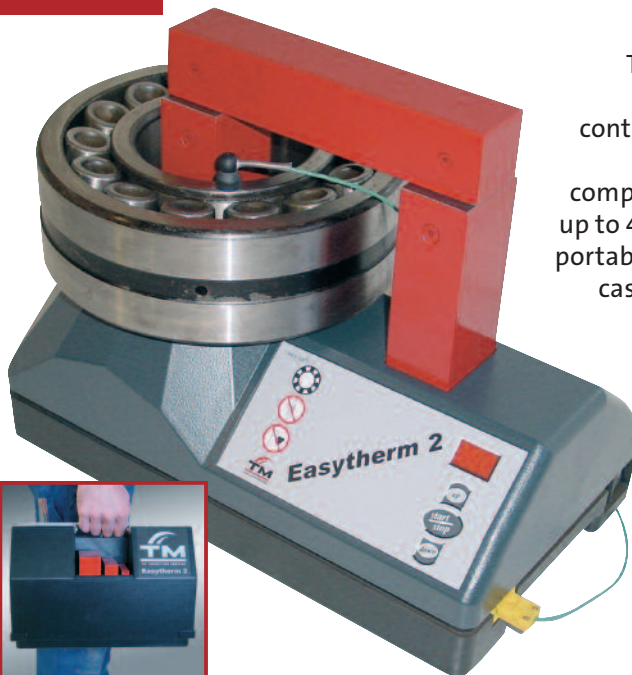
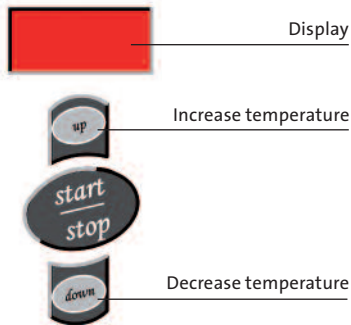
Technical information	
Voltage	110-230V
Frequency	50 or 60Hz
Power	3.6kVA
Heater mass	7kg/37.4lbs
Dimensions	345x200x240mm 9.25"x7.87"x9.44"
Temp. mode	Max. 240°C/464°F
Width U-core (D)	65mm/2.55"
Height U-core (E)	100mm/3.93"

Dimensions:

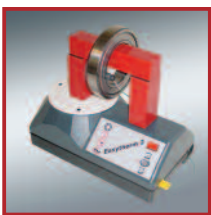
Size induction yokes mm/inch	Min. bore part (A)	Max. outer diameter part (B)	Max. width part (C)	Max. weight part
10x10x200/0.39"x0.39"x4.72"	15mm/0.59"	200mm/7.87"	60mm/2.36"	10kg/22lbs
14x14x200/0.78"x0.78"x4.72"	30mm/1.18"	200mm/7.87"	60mm/2.36"	10kg/22lbs
25x25x200/1.18"x1.18"x4.72"	45mm/1.77"	200mm/7.87"	95mm/3.74"(E)	10kg/22lbs

*Standard delivered within induction heater.

Easy therm 2



The Easytherm 2 is a small powerful microprocessor controlled induction heater for heating of small sized components including bearings up to 40 kg!! It is easy to use and portable, complete with a robust case, ideal to use on location.



Technical information	
Voltage	110-230V
Frequency	50 or 60Hz
Power	3.6kVA
Heater mass	17kg/37.4lbs
Dimensions	345x200x240mm 13.58"x7.87"x9.44"
Temp. mode	Max. 240°C/464°F
Width U-core (D)	120mm/4.72"
Height U-core (E)	100mm/3.93"

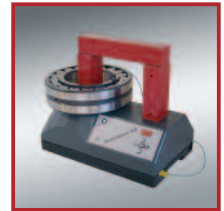
Dimensions:

Size induction yokes mm/inch	Min. bore part (A)	Max. outer diameter part (B)	Max. width part (C)	Max. weight part
10x10x200/0.39"x0.39"x7.87"	15mm/0.59"	210mm/8.26"	120mm/4.72"	5kg/11.02lbs
14x14x200/0.55"x0.55"x7.87"	20mm/0.78"	215mm/8.46"	120mm/4.72"	15kg/33.06lbs
25x25x200/0.89"x0.89"x7.87"	35mm/1.37"	225mm/8.85"	120mm/4.72"	25kg/55.11lbs
40x40x200/2.36"x2.36"x7.87"	60mm/2.36"	290mm/11.02"	120mm/4.72"	40kg/88.18lbs

*Standard delivered within induction heater.

Easy therm 3.5

The Easy therm 3.5 is a powerful 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.



Easy therm 3.5 non pivoting

The Easy therm 3.5 is available without pivoting yoke.



IR Remote control optional

Dimensions:

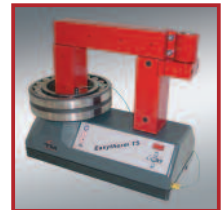
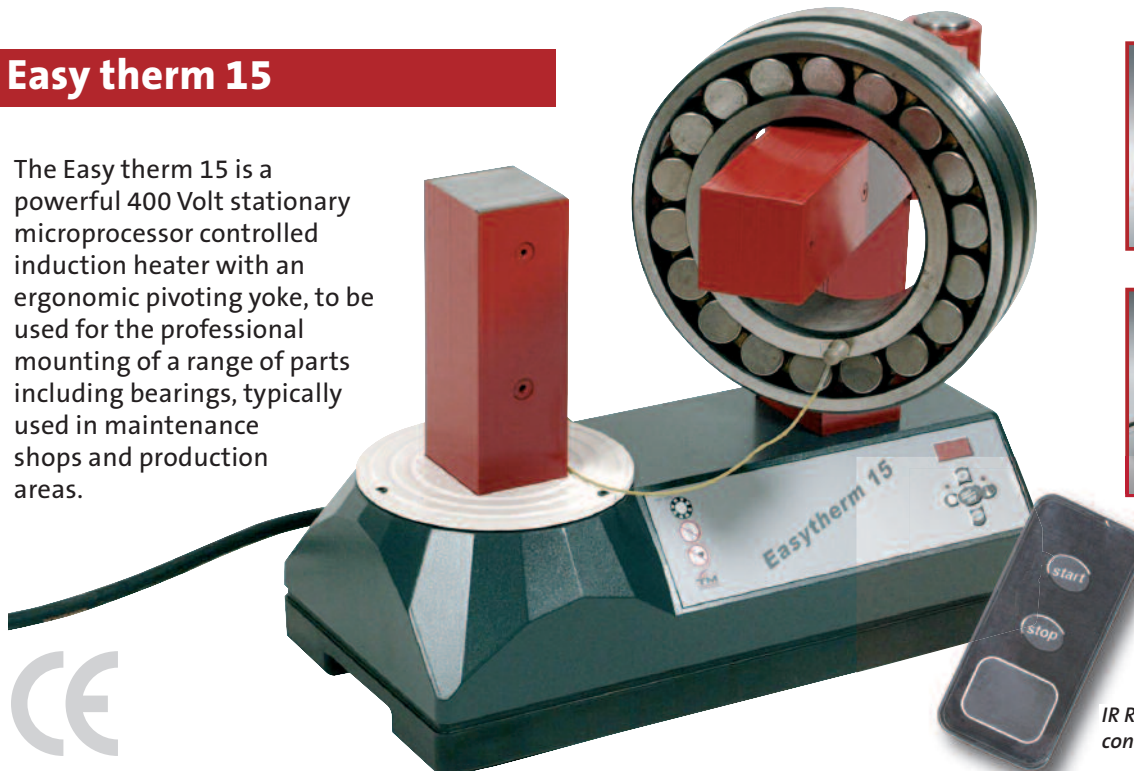
Size induction yokes mm/inch	Min. bore part (A)	Max. outer diameter part (B)	Max. width part (C)	Max. weight part
10x10x280/0.39"x0.39"x11.02"	15mm/0.59"	330mm/12.99"	180mm/11.02"	5kg/11lbs
14x14x280/0.55"x0.55"x11.02"	20mm/0.78"	345mm/13.58"	180mm/11.02"	15kg/33lbs
25x25x280/0.98"x0.98"x11.02"	35mm/1.37"	355mm/13.97"	180mm/11.02"	25kg/55lbs
40x40x280/1.58"x1.57"x11.02"	60mm/2.6"	360mm/14.17"	180mm/11.02"	40kg/77lbs
50x50x280/1.96"x1.96"x11.02"	70mm/2.75"	410mm/16.14"	180mm/11.02"	35-70kg/77-154lbs

Technical information

Voltage	110-230V
Frequency	50 or 60Hz
Power	3.6kVA
Heater mass	31kg/68lbs
Dimensions	420x260x360mm 16.83"x10.23"x14.77"
Temp. mode	Max. 240°C/464°F
Width U-core (D)	180mm/11.02"
Height U-core (E)	160mm/6.29"

Easy therm 15

The Easy therm 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.



IR Remote control optional



Dimensions:

Size induction yokes mm/inch	Min. bore part (A)	Max. outer diameter part (B)	Max. width part (C)	Max. weight part
20x20x350/0.78"x0.78"x13.76"	30mm/1.18"	460mm/18.11"	210mm/8.26"	15kg/22lbs
30x30x350/1.18"x1.18"x13.76"	45mm/1.77"	475mm/18.7"	210mm/8.26"	20kg/44lbs
40x40x350/1.57"x1.57"x13.76"	55mm/2.16"	485mm/19.09"	210mm/8.26"	25kg/55lbs
50x50x350/1.96"x1.96"x13.76"	70mm/2.75"	500mm/19.68"	210mm/8.26"	35kg/77lbs
60x60x350/2.36"x2.36"x13.76"	85mm/2.95"	515mm/20.27"	210mm/8.26"	60kg/132lbs
70x70x350/2.75"x2.75"x13.76"	100mm/3.93"	515mm/19.29"	210mm/8.26"	150kg/330lbs

Technical information

Voltage	380-480V
Frequency	50 or 60Hz
Power	12.8kVA
Heater mass	51kg/112lbs
Dimensions	505x260x440mm 19.88"x10.23"x17.32"
Temp. mode	Max. 240/400°C
Width U-core (D)	210mm/8.26"
Height U-core (E)	215mm/8.46"

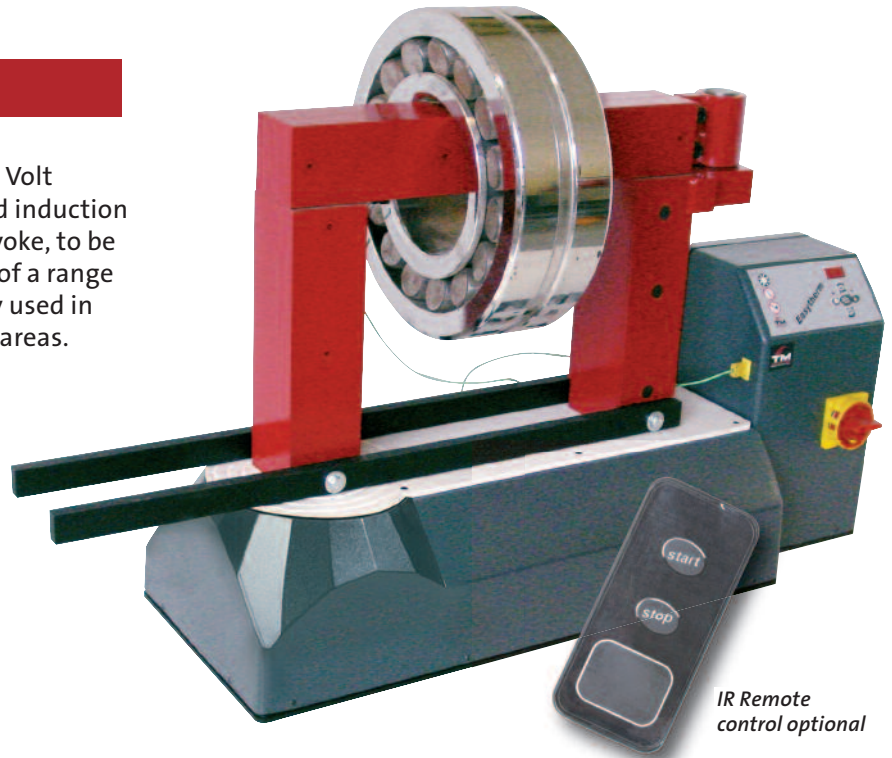
Easy therm 30

The Easy therm 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.



Technical information

Voltage	380-480V
Frequency	50 or 60Hz
Power	12.8kVA
Heater mass	60kg/132lbs
Dimensions	880x320x570mm 26.77"x12.2"x22.44"
Temp. mode	Max. 240°C/464°F
Width U-core (D)	330mm/12.00"
Height U-core (E)	295mm/11.61"



IR Remote control optional

Dimensions:

Size induction yokes mm/inch	Min. bore part (A)	Max. outer diameter part (B)	Max. width part (C)	Max. weight part
20x20x490/0.78"x0.78"x19.29"	30mm/1.18"	620mm/24.04"	330mm/12.99"	15kg/33lbs
30x30x490/1.18"x1.18"x19.29"	45mm/1.77"	630mm/24.8"	330mm/12.99"	20kg/44lbs
40x40x490/1.57"x1.57"x19.29"	55mm/2.16"	640mm/25.19"	330mm/12.99"	25kg/55lbs
50x50x490/1.96"x1.96"x19.29"	70mm/2.75"	650mm/25.59"	330mm/12.99"	35kg/77lbs
60x60x490/2.36"x2.36"x19.29"	85mm/3.34"	660mm/25.98"	330mm/12.99"	60kg/132lbs
70x70x490/2.75"x2.75"x19.29"	100mm/3.93"	670mm/26.37"	330mm/12.99"	80kg/176lbs
80x80x490/3.14"x3.14"x19.29"	115mm/4.52"	740mm/29.13"	330mm/12.99"	300kg/661lbs

Easy therm 30 with trolley

With the trolley the Easy therm 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.

Technical information

Voltage	380-480V
Frequency	50 or 60Hz
Power	12.8kVA
Heater mass	85kg/187lbs
Dimensions	1060x500x1090mm 41.92"x19.68"x42.91"
Temp. mode	Max. 240°C/464°F
Width U-core (D)	330mm/12.99"
Height U-core (E)	295mm/11.61"



IR Remote control optional

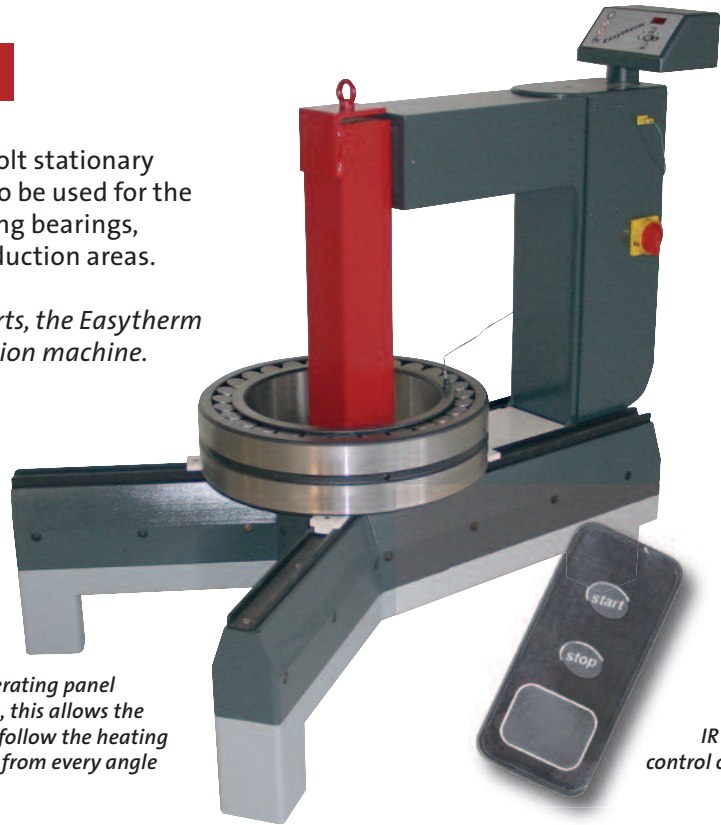
Easy therm 60

The Easy therm 60 is a robust powerful 400 Volt stationary microprocessor controlled 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)



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



IR Remote control optional

Dimensions:

Size induction yokes mm/inch	Min. bore part (A)	Max. outer diameter part (B)	Max. width part (C)	Max. weight part
40x40x700/1.57"x1.57"x27.55"	55mm/2.16"	840mm/33.07"	410mm/16.14"	700kg/1543lbs
60x60x700/2.36"x2.36"x27.55"	85mm/3.34"	860mm/33.85"	410mm/16.14"	700kg/1543lbs
80x80x700/3.14"x3.14"x27.55"	115mm/4.52"	880mm/34.64"	410mm/16.14"	700kg/1543lbs
100x100x700/3.93"x3.93"x27.55"	145mm/5.7"	900mm/35.03"	410mm/16.14"	700kg/1543lbs

Technical information

Voltage	380-480V
Frequency	50 or 60Hz
Power	25kVA
Heater mass	350kg/771lbs
Dimensions	780x1200x1060mm 30.7"x47.24"x41.73"
Temp. mode	Max. 240°C/464°F
Width U-core (D)	440mm/17.32"
Height U-core (E)	390mm/15.35"

Other measurements on request

Easy therm 100

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



IR Remote control optional

The Easy therm 100 is a robust powerful 400 Volt stationary microprocessor controlled induction heater, to be used for the professional mounting of heavy parts including bearings, typically used in maintenance shops and production areas, for instance paper-mills and steel-mills. *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)*



Technical information

Voltage	380-575V
Frequency	50 or 60Hz
Power	40kVA
Heater mass	800kg/1763lbs
Dimensions	1200x1700x1250mm 47.24"x66.92"x49.21"
Temp. mode	Max. 240°C/464°F
Width U-core (D)	470mm/18.5"
Height U-core (E)	690mm/27.16"

Other measurements on request

Dimensions:

Size induction yokes mm/inch	Min. bore part (A)	Max. outer diameter part (B)	Max. width part (C)	Max. weight part
60x60x850/2.36"x2.36"x33.46"	85mm/3.34"	1500mm/59.05"	470mm/18.5"	1250kg/2755lbs
80x80x850/3.14"x3.14"x33.46"	115mm/4.52"	1500mm/59.05"	470mm/18.5"	1250kg/2755lbs
100x100x850/3.93"x3.93"x33.46"	145mm/5.7"	1500mm/59.05"	470mm/18.5"	1250kg/2755lbs
150x150x850/5.9"x5.9"x33.46"	215mm/8.46"	1500mm/59.05"	470mm/18.5"	1250kg/2755lbs

Optional parts Easy therm 60 and 100



Trolley for Easy therm 60 and 100

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

4x Hoisting point for Easy therm 60 and 100

The 4 hoisting points makes it easy to move the heater with the crane.



Lifting device for Easytherm 60 and 100

The easy to assemble lifting device makes it possible to lift the heavy induction yoke. With this device an external elevating crane is not needed.



Easy therm 250

The Easy therm 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, typically used in maintenance shops and production areas, for instance gearbox manufacturers.

The Easy therm 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 Easy therm 250 offers the solution.



IR Remote control optional

Dimensions:

Size induction yokes mm/inch	Min. bore part (A)	Max. outer diameter part (B)	Max. width part (C)	Max. weight part
100x100x1250/3.93"x3.93"x49.21"	145mm/5.7"	2000mm/118.11"	620mm/24.4"	3000kg/6613lbs
150x150x1250/5.9"x5.9"x49.21"	284mm/8.46"	2000mm/118.11"	620mm/24.4"	3000kg/6613lbs
200x200x1250/7.87"x7.87"x49.21"	215mm/11.18"	2000mm/118.11"	620mm/24.4"	3000kg/6613lbs

Technical information

Voltage	380-480V
Frequency	50 or 60Hz
Power	100kVA
Heater mass	1800kg/3968lbs
Dimensions	1500x3000x2000mm 39.37"x118.11"x78.74"
Temp. mode	Max. 240°C/464°F
Width U-core (D)	750mm/29.52"
Height U-core (E)	1000mm/39.37"
<i>Other measurements on request</i>	

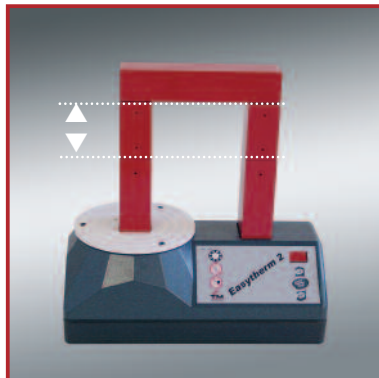
Optional parts and spare parts

Extension yokes

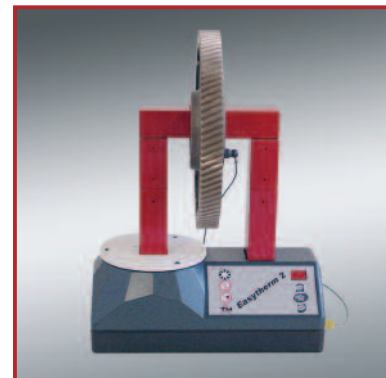
With extension yokes the user is able to heat up bigger parts on a standard Easy therm induction heater.

Dimensions:

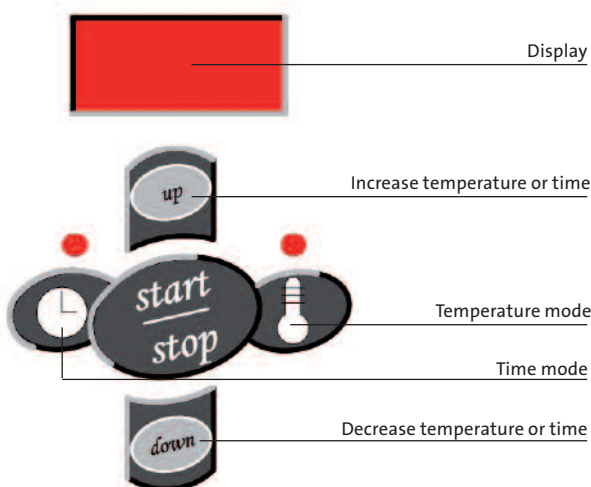
Type heater	Measurements set of extension yokes	Max. outside diameter part
Easy therm 2	50x50x75/1.96"x1.57"x2.95"	375mm/14.76"
Easy therm 3.5	50x50x120/1.96"x1.96"x4.72"	600mm/23.62"
Easy therm 15	70x70x150/2.75"x2.75"x5.9"	770mm/30.31"
Easy therm 15	70x70x200/2.75"x2.75"x11.81"	870mm/34.25"
Easy therm 30	80x80x150/3.14"x3.14"x5.9"	980mm/38.58"
Easy therm 30	80x80x200/3.14"x3.14"x11.81"	1080mm/42.51"



Max O.D. with a set extension yokes



The intelligent electronic unit for the Easy therm 3.5, 15, 30, 60, 100 and 250



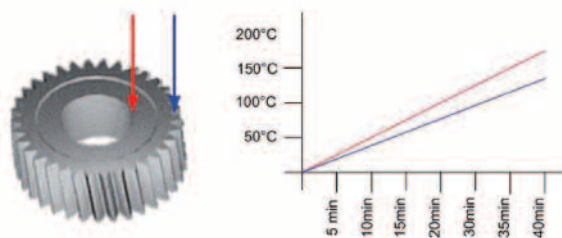
The intelligent electronic unit for the Easy them 3.5, 15, 30, 60, 100 and 250.

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, or IR remote control;
- Temperature control accuracy +/- 2°C;
- Timer accuracy 0,01 sec;
- Power can be set manual from 0-100%.

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.



Easy heat 35



Static middle frequency heater to heat up fast and controlled bores of housings, partial parts or for dismantling rings, waltzes or couplings

The PLC:

- temperature control
- Temperature hold function
- Alarm
- IP55
- RS 485 connection
- 6 languages

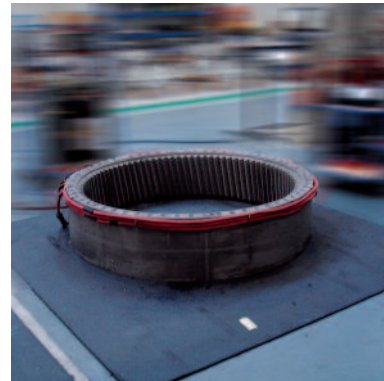


Technical information

Voltage	380-480V
Frequency	50 or 60Hz
Power	100kVA
Heater mass	1800kg/3968lbs
Dimensions	1500x3000x2000mm 39.37"x118.11"x78.74"
Temp. mode	Max. 240°C/464°F
<i>Higher temperature on request</i>	

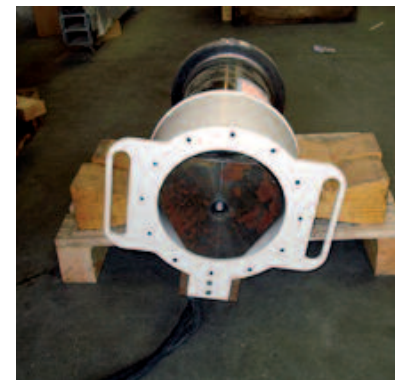
Examples:

Heating up bores of housings to ensure a tension free and fast assembly.



Partial heating of parts, flexible through the use of a lytze cable.

Production: heating up starter rings within 30 seconds 24 hours a day.



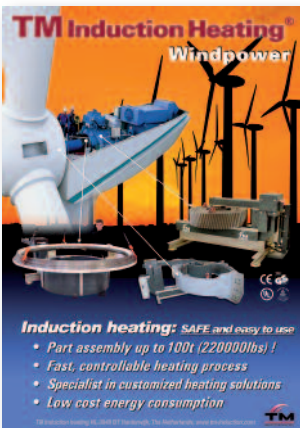
Heating up an inner ring to dismount.

Special Products

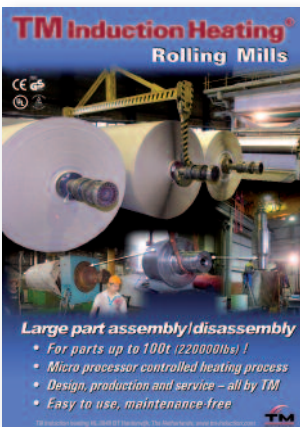
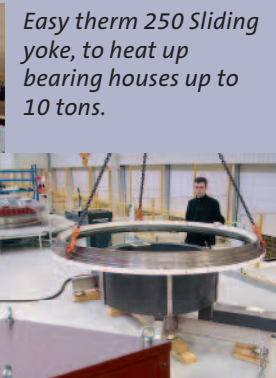
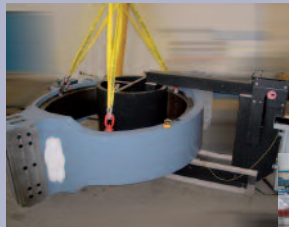
TM also produces tailor made production equipment completely adapted to customers requirements.



Automotive



Windpower



Rollig mills

Easy heat 35 to dismount a large inner rings from the shaft.



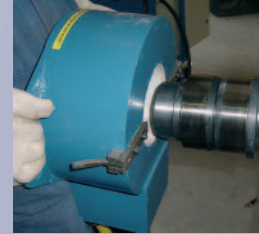
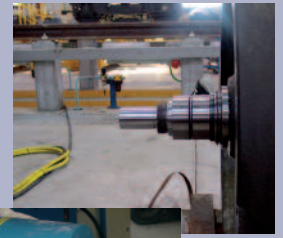
Special Products



Rail road



Mid frequency heater to dismount the NU-NUP inner rings.



Special sliding yoke heater to heat up the tires.

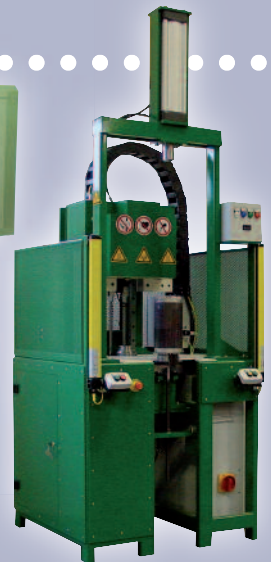


E-motors generators

TM Stator house heater To heat up stator-housings of e-motors in a continuous production process.



Modified Easy therm 30 to heat up e-motor housings.

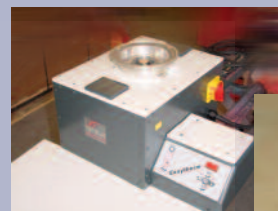
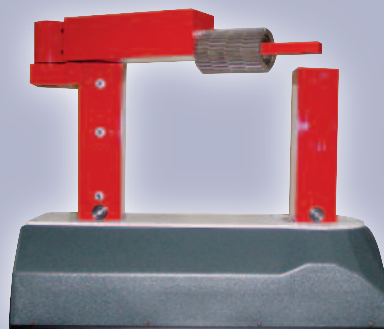


Rotor heater to heat up rotors, ensures a fast and tension free assembly of the shaft.

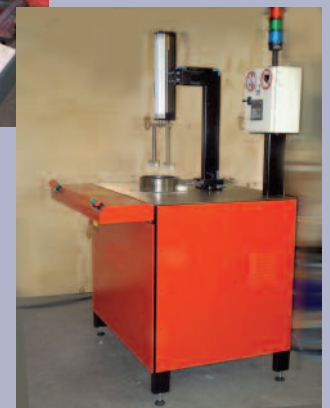
Special sliding yoke heater to heat up big e-motor housings.



Modified Easy therm 30 to heat up 4 small gears in a production process.



TM Coil heater for heating up gears or other parts with a small bore.

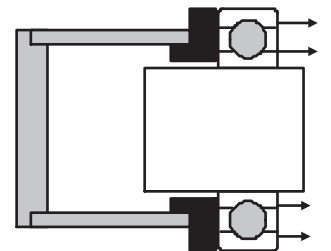
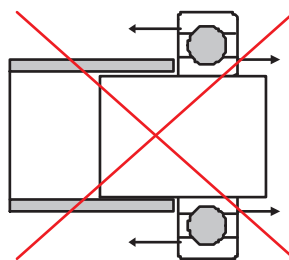
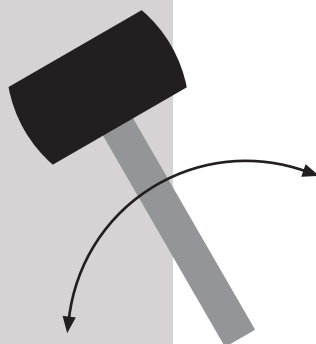


Fitting tool set



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.

The relief on the tubes realizes a perfect grip.



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.