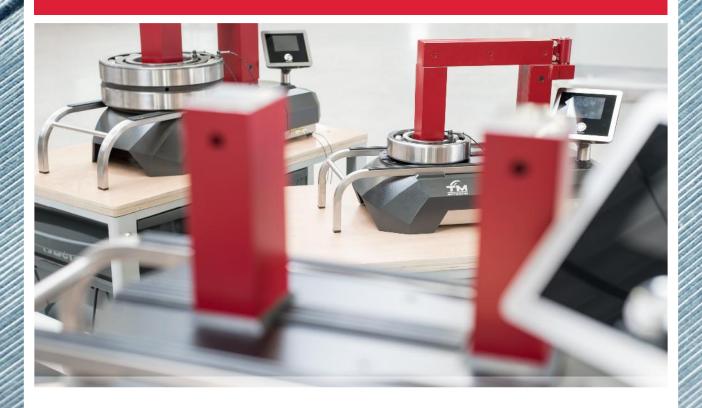




SURE**THERM**

User Manual



SURETHERM 10X

SURETHERM 20X

ISO 9001:2008 ID 9108623968 www.tuv.com

SURETHERM 30X



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ISO 9001:2008 ID 9108623968 www.tuv.com

Note

Check delivery for possible damage caused by transport without delay. Should damage be detected, please inform carriers immediately.

As our products are subject to continuous improvement, we reserve the right to make changes.

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INDUCTION HEATING

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SURE**THERM** induction heaters are used to heat rolling bearings. Other metal components forming a closed circuit such as bushings, shrink rings, pulleys and gears can also be heated. This will facilitate mounting where an interference fit is required.

Our range of standard heaters are designed to heat the workpiece to a maximum temperature of 240°C (464°F). The heaters can be used on a continuous basis. Always place the temperature sensor on the workpiece to check the heating cycle. When heating an object using Time Mode, the heating cycle must be checked using an external temperature meter.

Bearings generally should only be heated to a maximum temperature of 120°C (248°F). Do not use induction heaters for bearings or workpieces with dimensions outside the ranges specified in this manual. Do not switch off the heater with the main switch while heating cycle is running.



The heater is designed to be used in an industrial environment with an ambient temperature of 0°C to 40°C (32°F to 104°F) and an atmospheric humidity between 5% and 90%, non-condensing. The induction heater is intended for indoor use only.

OPERATING CONDITIONS

2 SAFETY GUIDELINES

The operating instructions should always be followed when using an induction heater.

TM Induction Heating shall not be held liable for damages caused by improper handling or by use which does not comply with the designated purpose. Prerequisites for the operator: He/she must be authorised for use of the heater and must be familiar with the safety precautions.

In order to prevent danger or damage to the induction heater or workpiece, follow these guidelines:

- ▶ All repairs must be carried out by an official TM Induction Heating distributor.
- Use original spare parts only.
- Protect the heater from water or very high humidity.
- Protect the heater core and yokes against corrosion, damage and deformation.
- ▶ Only preheat bearings to max. 120°C (248°F).
- ▶ To ensure proper operation of the device, it is important to provide the device with the latest software updates. A description can be found in chapter 5 - OPERATION, page 20 - USER MENU.

- Since a magnetic field ⁴⁸⁵ is generated by the induction heater, people wearing a pacemaker ¹ or other implant device ² should not work or be in the immediate vicinity of the device. Other sensitive equipment such as wrist watches, magnetic carriers, electronic circuits, etc. ³ might also be affected. The safety distance is 0.5 meters (19").
- ▶ Use protective gloves as protection against burns to hands. The gloves delivered are suitable for use up to temperatures of 150°C (302°F).
- ▶ Hot surface, avoid contact ⁶.
- ▶ Do not operate an induction heater in areas where there is risk of explosion.
- ▶ Wear safety shoes ⁸.



SAFETY PRECAUTIONS

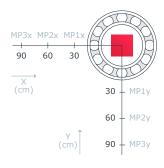
SAFETY INSTRUCTIONS

- The user should have an appreciation of the contents of this user manual, and be familiar with safe workshop practices.
- Follow the user manual at all times.
- ▶ Ensure that the induction heater operates at the correct supply voltage. If the heater is not supplied with a plug, changes should only be made by a suitably qualified electrician.
- Do not use or store the heater in humid environments. The heater is designed for indoor use only.
- Use proper handling equipment, appropriate for the weight of the workpiece and/or yoke. Never support components with a metal cable or have any hanging in the proximity of the magnetic field. Extremely high currents can flow through the cable causing it to heat up quickly, resulting in a risk of burning.
- Do not place any metal objects near the yokes and poles.
- Place heater on a stable, horizontal surface.
- ▶ Keep a minimum distance of 1 metre (38") to surrounding objects.
- Use only in well ventilated areas.
- Do not heat objects containing oil, grease or similar substances.Prevent possible generation of fumes and smoke.
- Do not inhale fumes or smoke from heated parts.
- ▶ Do not move or lift heater when warm after heating cycle.
- ▶ Do not touch the heater core during heating cycle.

Should an error occur during the heating process, the induction heater will automatically stop. The corresponding error will be displayed on screen. In the case of user error, the display indicates what steps are to be taken to correct the problem. More information about the types of errors can be found in chapter 7 - ERRORS.

SAFETY FEATURES

An induction heater produces an electromagnetic field within a coil to transfer energy to a workpiece. The table below shows values of the flux density in microTesla (μT). These measurements can be used as a guide



conforming to local regulations regarding the maximum time exposure to magnetic fields. Different configurations may give different values. It is impossible to provide values for all combinations as the variety of bearing types in combination with the different yokes is large.

SURE THERM	10X	20 X	30 X
Measurement position (cm)		B-field _{total} (µ1	Γ)
MP1x	81	249	283
MP2x	16	34	74
мрзх	1	11	28
MP1y	156	181	185
MP2y	27	24	78
МРЗу	9	9	41

Total 50Hz RMS field for magnetic measurement results. Max. magnetic flux in safe exposure area, according to the German BG 11 Regulations is 423 μT .

3 INSTALLATION

SCOPE OF DELIVERY

Contents of the box

- 1. SURETHERM 10×/20×/30×
- 2. Yoke(s)
- 3. Temperature probe(s)
- 4. Heat-resistant gloves
- 5. User Manual
- 6. Quickstart guide



Note

The SURETHERM 10 \times comes with yokes 14, 25, and 40 included. The yokes for SURETHERM 20 \times and SURETHERM 30 \times are all optional. The heat-resistant gloves may differ from the picture above.

UNBOXING

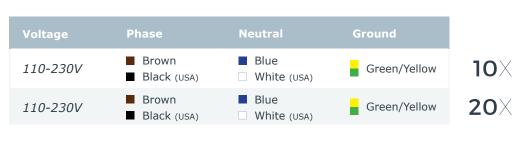
Follow the instructions specific for this heater on the supplied Quickstart guide. If the Quickstart guide is not included in this box, please contact your distributor or TM Induction Heating directly. The induction heater must always be transported in the original box, thus also on return to the manufacturer/distributor.

Ensure that supply voltage and current meet the specifications. These can

INSTALLATION PROCESS

be found on the type plate at the back of the induction heater.

Each induction heater is provided with a plug, but there are a large number of plug types. Should the plug not fit your power supply, a suitable plug must be affixed by a qualified electrician. Voltages may differ for customized heaters.



Voltage	Phase X / L1	Phase Y / L2	Ground	
400-440V	■ Brown ■ Black	■ Black ■ Black	Green/Yellow	30 ×
460-575V	Black	■ Black	Green/Yellow	30 ×

Insert the plug into a shockproof wall socket and then connect the heater to mains electricity.

Turn main switch from 0 to 1. The heater will emit a short beep and the touchscreen displays the main menu. The induction heater is now ready for use.



4 SETTING UP THE WORKPIECE

The workpiece can be set up in two different ways and must never touch the housing. Small objects are to be heated in a vertical position.



- Use appropriate hoisting equipment for heavy components and yokes.
 Manual lifting of heavy objects is a common cause of injury.
- Wear safety shoes during these procedures.
- The weight of the work-piece should not exceed the maximum weight as shown in chapter 8 - WORKPIECE DIMENSIONS. Exceeding these limits may result in catastrophic equipment failure and may also lead to personal injury.
- Ensure there is no contact between the mains cable and the workpiece.Damage to the cable may result in electrocution.
- Never support components with a metal cable and avoid metal cables hanging in the proximity of the magnetic field. Extremely high currents can flow through the cable causing it to heat quickly, resulting in risk of burning.

Choose largest possible yoke which fits the diameter of the workpiece.Position the workpiece onto the yoke and place the yoke with the machine milled surface on the poles of the heater core.

CHOOSING THE YOKE





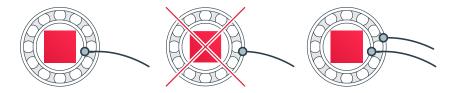




- Always make sure that the workpiece avoids direct contact with the housing of the heater.
- When a heating cycle is completed, always wear heat-resistant gloves. The maximum temperature of the workpiece on a standard induction heater is 240°C (464°F).
- Always treat yokes carefully. Falling, bumping, etc. can damage the yoke and/or cause personal injury. Always store the yoke safely immediately after use.

POSITIONING THE MAGNETIC TEMPERATURE PROBE(S)

- Always use the magnetic temperature probe (hereafter referred to as the 'probe') for heating in Temperature Mode or Ramp Mode.
- Place the probe on the workpiece, close to the bore. Make sure that the surface used for the probe is free of grease and/or oil.



- ▶ If the induction heater has two probes: place one close to the bore and the other on the outer ring.
- Our standard probes are suitable for operation up to a maximum temperature of 240°C (464°F). The connection between magnet and probe will break above the maximum temperature. If this occurs when operating in Temperature Mode, the heater will turn itself off as

the probe will fail to register any increase in the temperature over a set period of time. Probes for higher temperatures are optional.

Connect the probe by inserting the plug into the socket at the front of the heater, with the red dot facing upwards.



ACAUTION

Treat the probe with care. It is a valuable part of the heater and can easily be damaged through careless handling. After use, we suggest that it be placed on the side of the vertical pole.

OPERATION

When the induction heater is turned on, the homescreen can show up to four buttons with different modes; Time Mode is always available. Temperature Mode (with 1 sensor) and Ramp Mode will be enabled when



one sensor is inserted. An extra Temperature Mode (with 2 sensors) will be enabled when a second sensor is inserted.

The start/stop button is used for starting heating cycles in one of the modes, or to stop a heating cycle at any time.

When a heating cycle is complete, or stopped prematurely, the program will return to the main screen of the heating mode. A graph can be requested with the graph button .

Every mode has three stages:

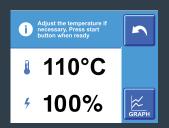
- **1. Preparation** The user can change the temperature and/or time.
- **2. Heating process** The induction heater starts the heating cycle.
- **3. Completion** The heating cycle has ended.



TEMPERATURE MODE, ONE SENSOR

To change the temperature press 110°C. Otherwise proceed to step 2.

1. PREPARATION





Press or to change the temperature (max. 240°C).

Press when the temperature is set.

2. HEATING PROCESS

Press to start the heating cycle and stand at a safe distance.

There is a 5 second countdown before the cycle starts.

When the preset temperature has been reached the heater will hold that temperature.







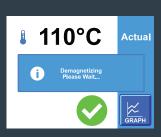
Alternatively, to start the heating process, press the start button on the remote.



3. COMPLETION

Press to stop the heating cycle.

The induction heater will now demagnetize.







RAMP MODE

To change the temperature press 110°C, to change the heating time press 0:00.
Otherwise proceed to step 2.

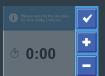
1. PREPARATION





Press or to change the temperature (max. 240°C).

Press when the temperature is set.



Press or to change the time.

Press when the time is set.

2. HEATING PROCESS

Press to start the heating cycle and stand at a safe distance.

There is a 5 second countdown before the cycle starts.

When the preset temperature has been reached the heater will hold that temperature.







Alternatively, to start the heating process, press the start button on the remote.



3. COMPLETION

Press to stop the heating cycle.

The induction heater will now demagnetize.





TEMPERATURE MODE, TWO SENSORS

To change the temperature press 110°C, to change the Δ temperature press 135°C.

Otherwise proceed to step 2.

1. PREPARATION





Press or to change the temperature (max. 240°C).

Press when the temperature is set.



Press ightharpoonup or ightharpoonup to change the Δ temperature.

Press when the temperature is set.

2. HEATING PROCESS

Press to start the heating cycle and stand at a safe distance.

There is a 5 second countdown before the cycle starts.

When the preset temperature has been reached the heater will hold that temperature.







Alternatively, to start the heating process, press the start button on the remote.



3. COMPLETION

Press to stop the heating cycle.

The induction heater will now demagnetize.



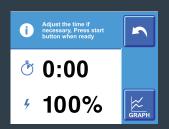




TIME MODE

To change the heating time press <u>© 0:00</u>
Otherwise proceed to step 2.

1. PREPARATION



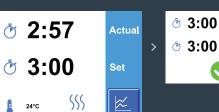


2. HEATING PROCESS

Press to start the heating cycle and stand at a safe distance.

There is a 5 second countdown before the cycle starts.







Alternatively, to start the heating process, press the start button on the remote.

3. COMPLETION

Press to stop the heating cycle.

The induction heater will now demagnetize.



USER MENU

The user menu can be accessed by pressing the start/stop button for 8 seconds. Within this menu the user can view and/or change the following settings:

o Reset to Factory Settings

Each user setting will be reset to its original factory values.

U1 Languages

The languages of the heater can be changed to English, Spanish, German, and French. More languages can be added later.

Default Temperature (110°C)

The default temperature can be set. The factory set temperature is 110°C (230°F).

U3 Temp. Hold (On)

Temperature hold can be turned on or off. During pendulation the heater will heat to the set temperature and cools down by 3°C, then heats again to the set temperature, etc.

U4 Temp. Hold Duration (5:00)

The duration of the temperature hold can be set. With the factory set duration of 5:00 min the heater pendulates indefinitely.

US Completion Signal (On)

The buzzer can be turned on or off. When on the heater will buzz when it reaches the set temperature. The factory set value is 'on'.

U6 Temperature Unit (°C)

The temperature unit can be changed to Celsius or Fahrenheit. The factory set temperature unit is Celsius, Fahrenheit in the USA.

U7 Maximum Temp. Delta (35°C)

The max. temperature difference between the two sensors can be set. The factory set temperature difference is 35°C (122°F).

U8 Remote Control (On)

The remote control function can be turned on or off. This setting is shown only when the remote has been included.

U9 Calibration Sensor 1

The temperature of sensor 1 can be set if it is calibrated incorrectly.

U10 Calibration Sensor 2

The temperature of sensor 2 can be set if it is calibrated incorrectly.

U12 Start Delay (5)

A delay can be set for the start of the heating process. When the user starts the heating process there will be a delay so to enable removal to a safe distance. The factory set delay is 5 seconds.

U13 View Temp. Logging

The temperature log from the previous heating cycle can be viewed here.

U14 Screensaver (Off)

The settings for the screen saver can be set here, ranging from off to a certain number of seconds.

U15 Time (HH:MM)

The current time can be set here.

This information will be used when datalogging the heating cycle.

U16 Date (DD/MM)

The current date can be set here. This information will be used when datalogging the heating cycle.

U17 Year (YYYY)

The current year can be set here. This information will be used when datalogging the heating cycle.

U19 Temp. Hold Hysteresis (3°C)

The max. temperature difference before the heater starts heating again can be set here.

U20 Auto Sensor Select (On)

When this setting is turned on the heater can recognize the difference between Sensor 1 and Sensor 2 and assign the order automatically.

U22 Time Range (MM:SS)

The Time Range can be switched between MM:SS (minutes and seconds) and HH:MM (hours and minutes). This Time Range setting will be applied to the available range when using Time Mode.

U24 Exit (Discard Changes)

Any recent adjustments will be discarded and the user returns to the homescreen.

U26 Update Firmware GUI

When a USB drive (containing an update for the User Interface) is inserted this option will show. Press and follow the on-screen instructions to update the heater.

U27 Update Firmware PWR

When a USB drive (containing an update for the Powerboard) is inserted this option will show. Press and follow the on-screen instructions to update the heater.

U28 Update Languages

When a USB drive (containing an update for texts) is inserted this option will show. Press and follow the on-screen instructions to update the Fonts and Texts.

U29 Cur. Version GUI

The current version of the User Interface is shown here.

U30 Cur. Version PWR

The current version of the Powerboard is shown here.

U31 Number of Cycles

The Number of Cycles shows the amount of heating cycles for the induction heater.

U32 Heating Timer

The Service Counter shows the total time (all heating cycles added together) for the induction heater.



MAINTENANCE

6

- ▶ Store in a dry, frost-proof area, free from humidity.
- ▶ Keep clean with a soft, dry cloth.
- ▶ Keep the display clean for optimal responsiveness and to avoid any scratches.
- ▶ Keep the contact parts of the heater core poles greased. Grease regularly with an acid-free grease for optimal contact and to avoid corrosion (in the case of heaters with a pivoting yoke, also grease the vertical pin regularly).
- ▶ CRITICAL SPARE PART Magnetic probe 0110010. Always use original spare parts, we can not guarantee a proper functioning using other parts.

Proper maintenance and handling practices are critical. Failure to follow installation and maintenance instructions can result in equipment failure, creating a risk of serious bodily harm.



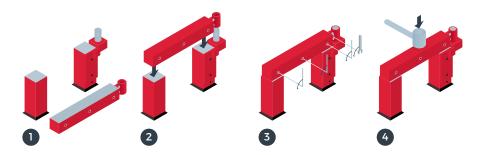
7 MALFUNCTION

If a loud vibrating noise is heard:

- ▶ Stop the heating cycle by pressing the start/stop button.
- ▶ Are the contact surfaces clean and greased sufficiently?
- Are the yokes 100% in contact with the surface? If this is not the case adjust the yoke with instructions below.

ADJUSTING THE YOKE

- 1. Check if the machine milled surface is smooth.
- 2. Place yoke or pivoting yoke on the heater.
- 3. Unscrew the screws in the yoke and pivoting point a quarter turn.
- 4. Turn on the heater and the yoke will set itself or use a nylon hammer.



5. Fasten screws, turn off heater and the yokes are now adjusted.



If in any doubt, isolate the induction heater and contact your local distributor. You can find the contact details for your nearest distributor on www.tminductionheating.com/distributors.



The induction heater can display two different kinds of errors: User errors (recognized by blue background) and Fatal errors (recognized by red background). The type of error message determines the difficulty of the action needed to make the induction heater function properly.

ERRORS



Most of the User errors are easy to solve, as the user interface will provide a suggestion for troubleshooting. The user should always end the troubleshooting by restarting the heater. If the error

persists after troubleshooting the user can contact the local distributor. Contact details for the nearest distributor on www.tminductionheating.com/distributors.



Fatal errors cannot be resolved without contacting the local distributor, as the problem is caused by an internal hardware or software error. When encountering a Fatal error the user must note

the Error-code (found in the top righthand corner) and the operating conditions. Operating conditions may contain a description of the part that has been heated, the heating mode that has been used, and any other relevant information.

8 SPECIFICATIONS

SURETHERM 10 \times



Base dimensions: 450 x 210 x 275 mm

SURETHERM 20X



Base dimensions: 540 x 275 x 365 mm | Pivoting yoke

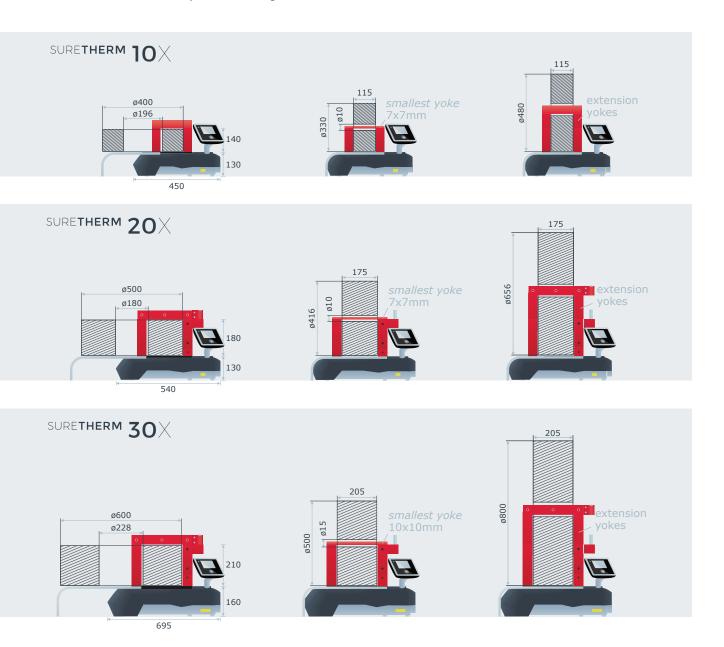
SURETHERM 30 \times



Base dimensions: 695 x 330 x 435 mm | Pivoting yoke

SURE**THERM** has an adjustable rack which gives it a larger surface area to hold larger workpieces. The heater core itself is non-adjustable. With a set of extension yokes the height can be extended.

DIMENSIONS



Workpiece dimensions shown here are extremes and depend on the yoke size used. See the table on the next page for an extensive overview.

HORIZONTAL WORKPIECE DIMENSIONS (IN MILLIMETERS)

Sl	JRE THERM 10 X	20 X	30 ×
Core dimensions	40 x 50	50 x 62	70 x 82
Min. bore	40 x 30 ø 66	ø 80	ø 108
Max. outer diameter	ø 400	ø 500	ø 600
Max. height	140	180	210
Max. height with extensi	on yokes 215	300	360

VERTICAL WORKPIECE DIMENSIONS

(IN MILLIMETERS)

	Yoke	Min. bore		Max. outer diameter	Max.
			diameter	with extension yoke	width
\times	7	ø10	ø297	ø372	115
7	10	ø15	ø300	ø375	115
Σ	14	ø20	ø304	ø379	115
뽀	25	ø35	ø315	ø390	115
SURETHERM 10	30	ø40	ø320	ø395	115
S	40	ø55	ø330	ø405	115
	25 + 40	ø78	ø355	ø430	115
\sim	7	ø10	ø373	ø493	175
7	10	ø15	ø376	ø496	175
Σ	14	ø20	ø380	ø500	175
里	25	ø35	ø391	ø511	175
SURETHERM 20	30	ø40	ø396	ø516	175
SUI	40	ø55	ø406	ø526	175
	50	ø70	ø416	ø536	175
	40 + 50	ø105	ø456	ø576	175
\times	10	ø15	ø440	ø590	205
SURETHERM 30×	14	ø20	ø444	ø594	205
Σ	20	ø30	ø450	ø600	205
単	30	ø40	ø460	ø610	205
L	40	ø55	ø470	ø620	205
SUI	50	ø70	ø480	ø630	205
	60	ø85	ø490	ø640	205
	70	ø100	ø500	ø650	205
	60 + 70	ø150	ø560	ø710	205



	SURE THER!	^м 10×	20X :	30X
Electricity	Power rating Voltage Current max. Frequency	3 kVA 110 - 230 V 13 A 50 / 60 Hz	3.7 kVA 110 - 230 V 16 A 50 / 60 Hz	8 kVA 400 - 575 V 20 A 50 / 60 Hz
Controls for tension-free heating	Max. Temp. (1 sensor)	240°C	240°C	240°C
	Max. Temp. (2 sensor) Time			240°C ΔT 20 - 50°C 0 min - 99 hours
Yokes (mm)	Time / Temp. Ramp * = Standard	5 min - 99 hours 5 - 240°C 7x7x200	5 min - 99 hours 5 - 240°C 7x7x280	5 min - 99 hours 5 - 240°C 10x10x350
	P = Pivoting	10x10x200 14x14x200 * 25x24x200 *	10×10×280 14×14×280 25×24×280 P	14x14x350 20x20x350 P 30x26x350 P
		30x26x200 40x38x200 * n/a	30x26x280 P 40x38x280 P 50x48x280 P	40x38x350 P 50x48x350 P 60x60x350 P
	Extension yokes (lxwxh)	n/a 40x50x75	n/a 50x62x120	70x70x350 P 70x82x150
Weight		21kg	40kg	85kg
Max. weight workpiece		50kg	100kg	200kg

TECHNICAL DATA

EXTRA INFORMATION

Error report Shown in display

Heating graph Shown in display

Heating temperature (1 sensor) Set and actual temperature, time, and power

Heating time Set and actual time

Heating time / temp. ramp Set and actual temperature, time, and power

External interface 1 USB 2.0 Port

External interface 2 Network Connection (optional)

Sound signal Buzzer

Demagnetizing <2A/cm

Magnetic probe One piece

Temperature hold Yes

Thermal safety guard coil Yes

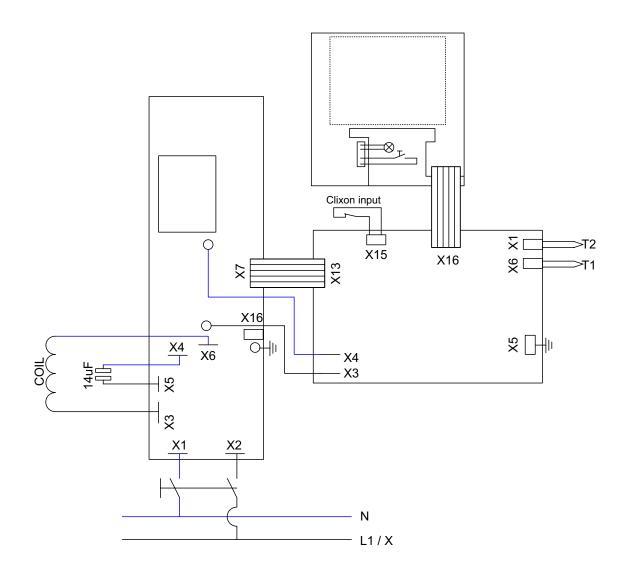
Languages English, German, Spanish, French

Warranty 24 months

Extended Warranty + 12 months

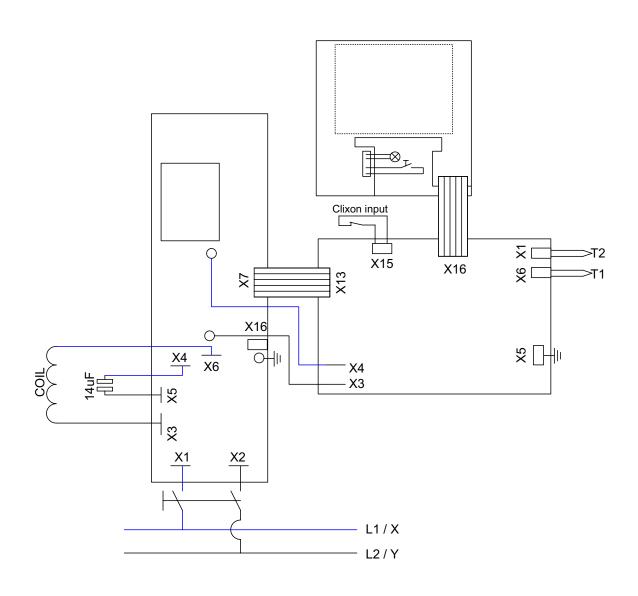
Electrical drawing SURETHERM 10 \times and SURETHERM 20 \times

ELECTRICAL DRAWING



ELECTRICAL DRAWING

Electrical drawing SURETHERM 30X





STATEMENT OF CONFORMITY

9

TM Induction Heating consistently provides products that meets customer and applicable statutory and regulatory requirements. ISO 9001:2008 specifies the requirements for a quality management system.





Management System ISO 9001:2008 www.tuv.com ID 9108623968

A properly issued Declaration of Conformity has been established in order to ensure the quality of SURETHERM induction heaters. This declaration indicates that the product meets the requirements of the directives which are applicable. The SURETHERM induction heaters are manufactured in accordance with European regulations; CE compliant. As CE marking is a mandatory conformity marking for products sold within the European Economic Area these declarations do not cover any regions outside Europe. However, these declarations do ensure the quality of TM Induction Heating products.

SURF**THERM**

DECLARATION OF CONFORMITY

Manufacturer TM Induction Heating

Address Nobelstraat 14

3846 CG Harderwijk
The Netherlands

We hereby declare that the supplied version of

Name product Induction heater

Type product SURETHERM 10X

This product complies with technical standards specifications as defined by MACHINE DIRECTIVE 2006/42/EC, LOW VOLTAGE DIRECTIVE 2014/35/EU and EMC DIRECTIVE 2014/30/EU.

In conjunction with the following harmonized standards and where appropriate other technical standards and specifications:

Risk Assessment EN-ISO 12100:2010

Design & Manufacture EN-IEC 61000-4-6:2007/A1:2011

EN-IEC 60204-1:2006/C11:2010

NEN 3140/A1:2015

Name Mr. E. van Dijk

Function General Manager

Signature

DECLARATION OF CONFORMITY

Manufacturer TM Induction Heating

Address Nobelstraat 14

3846 CG Harderwijk
The Netherlands

We hereby declare that the supplied version of

Name product Induction heater

Type product SURETHERM 20X

This product complies with technical standards specifications as defined by MACHINE DIRECTIVE 2006/42/EC, LOW VOLTAGE DIRECTIVE 2014/35/EU and EMC DIRECTIVE 2014/30/EU.

In conjunction with the following harmonized standards and where appropriate other technical standards and specifications:

Risk Assessment EN-ISO 12100:2010

Design & Manufacture EN-IEC 61000-4-6:2007/A1:2011

EN-IEC 60204-1:2006/C11:2010

NEN 3140/A1:2015

Name Mr. E. van Dijk

Function General Manager

Signature

DECLARATION OF CONFORMITY

Manufacturer TM Induction Heating

Address Nobelstraat 14

3846 CG Harderwijk The Netherlands

We hereby declare that the supplied version of

Name product Induction heater

Type product SURETHERM 30X

This product complies with technical standards specifications as defined by MACHINE DIRECTIVE 2006/42/EC, LOW VOLTAGE DIRECTIVE 2014/35/EU and EMC DIRECTIVE 2014/30/EU.

In conjunction with the following harmonized standards and where appropriate other technical standards and specifications:

Risk Assessment EN-ISO 12100:2010

Design & Manufacture EN-IEC 61000-4-6:2007/A1:2011

EN-IEC 60204-1:2006/C11:2010

NEN 3140/A1:2015

Name Mr. E. van Dijk

Function General Manager

Signature



user manual SURE**THERM** version 2.0 - 2017







Maintenance & Reliability Equipment

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