



SURETHERM^{PRO}

User Manual



SURETHERM^{PRO} 1X

SURETHERM^{PRO} 3X

SURETHERM^{PRO} 6X



ISO 9001:2015
ID 9000001589
www.tuv.com



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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

1

SURETHERM 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.



CAUTION

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 ^{4&5} 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



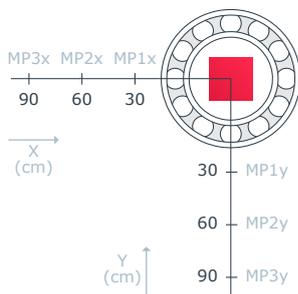
SAFETY INSTRUCTIONS

- ▶ 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.
- ▶ When using smaller yoke sizes on a **SURETHERM PRO** heater, make sure to reduce the maximum power output. An overview of the maximum power output per yoke size can be found on page 13.

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.

SURETHERM ^{PRO} 1X		3X	6X
Measurement position (cm)	B-field _{total} (μT)		
MP1x	454	864	868
MP2x	189	272	370
MP3x	51	143	201
MP1y	458	874	983
MP2y	191	314	416
MP3y	80	156	196

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 PRO 1X/3X/6X
2. Temperature probes
3. Heat-resistant gloves
4. User Manual
5. Quickstart guide



Note

The yokes for SURETHERM PRO induction heaters are all optional. The SURETHERM PRO induction heaters are delivered with two magnetic temperature probes included. 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 be found on the type plate at the back of the induction heater.

Not all of our induction heaters are provided with a plug and/or cable, mainly because there are a large number of plug and cable types. A suitable plug and/or cable must be affixed by a qualified electrician. Voltages may differ for customized heaters.



INSTALLATION PROCESS

Voltage	Phase X / L1	Phase Y / L2	Ground
400-440V	 Brown	 Blue	 Green/Yellow
	 Black (USA)	 Black (USA)	
460-575V	 Brown	 Blue	 Green/Yellow
	 Black (USA)	 Black (USA)	

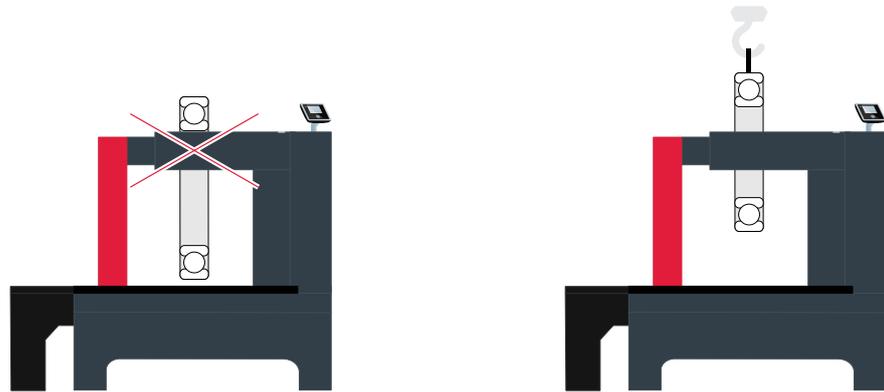
Insert the plug into a shockproof wall socket and then connect the heater to mains electricity.

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.

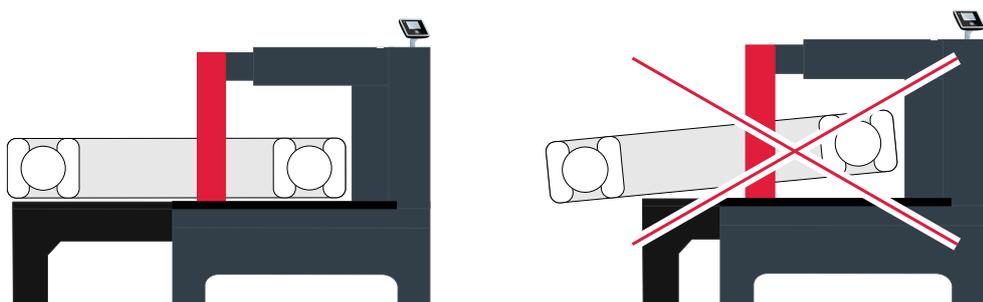




4 SETTING UP THE WORKPIECE



- ▶ 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 cables hanging in the proximity of the magnetic field. Extremely high currents can flow through the cable causing it to heat up quickly, resulting in risk of burning.





- ▶ Choose the largest possible yoke. Position workpiece and place the yoke with the machine milled surface on the poles of the heater core.
- ▶ 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.
- ▶ Treat yokes carefully. Falling, bumping can damage the yoke and/or cause personal injury. Store the yoke safely immediately after use.

CHOOSING THE YOKE

When using **RAMP MODE** or **TEMP. TWO SENSOR MODE**, the actual effective power will constantly change during the heating cycle. This is done fully automatic. When using **TIME MODE** or **TEMP. ONE SENSOR MODE** the standard effective power is 100%. Turning the power down is needed when:

MANUAL POWER ADJUSTMENT

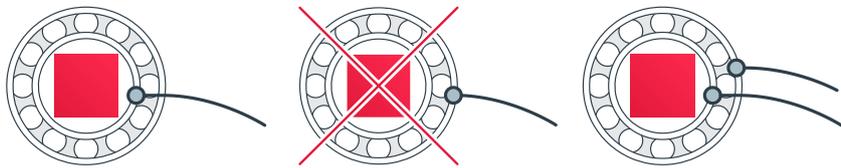
- ▶ The set temperature is too high after the set time. **RAMP MODE** advised.
- ▶ The set temperature is reached too quickly. We advise using **RAMP MODE**.
- ▶ Applying smaller yokes, especially during continuous use.

Yokes	1X	3X	6X
20 x 20	40%	N/A	N/A
30 x 26	50%	40%	N/A
40 x 38	60%	40%	N/A
50 x 48	80%	50%	N/A
60 x 60	100%	50%	50%
70 x 70	100%	50%	N/A
80 x 80	100%	60%	60%
90 x 90	N/A	80%	N/A
100 x 100	N/A	100%	80%
150 x 150	N/A	N/A	100%

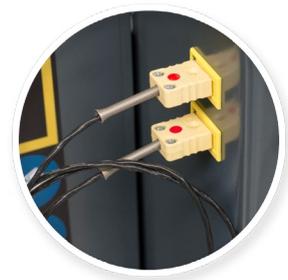
To prevent the hardware from overheating make sure to reduce the maximum power output according to the table.

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.



CAUTION

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

5

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.*

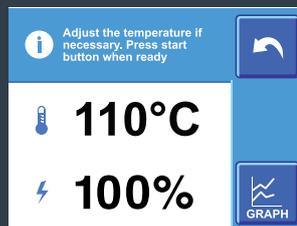


TEMPERATURE MODE, ONE SENSOR

1. PREPARATION

To change the temperature press **110°C**, to change the max. power output press **100%**

Otherwise proceed to step 2.



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

Press **✓** when the temperature is set.

Press **+** or **-** to change the max. power output.

Press **✓** when the max. power output is set.

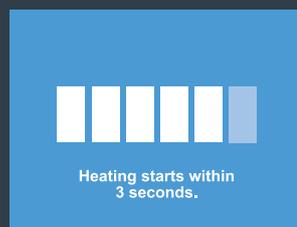
When using smaller yoke sizes on a SURETHERM PRO heater, make sure to reduce the maximum power output. See **page 13** for an overview of the advised max. power output per yoke size.

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.

Hereafter it will return to the first screen.

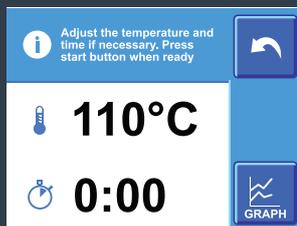




RAMP MODE

1. PREPARATION

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



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

Press **✓** when the temperature is set.

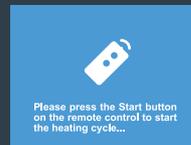
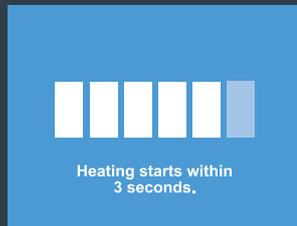
Press **+** or **-** to change the time.

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.



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

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



3. COMPLETION

Press **○** to stop the heating cycle.

The induction heater will now demagnetize.

Hereafter it will return to the first screen.

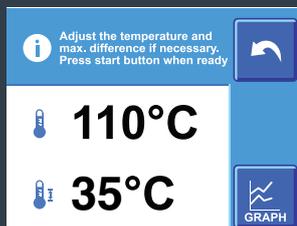




TEMPERATURE MODE, TWO SENSORS

1. PREPARATION

To change the temperature press **110°C**, to change the Δ temperature press **35°C**. Otherwise proceed to step 2.



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

Press **✓** when the temperature is set.

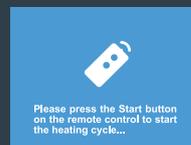
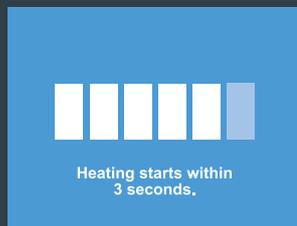
Press **+** or **-** to change the Δ temperature.

Press **✓** when the temperature is set.

2. HEATING PROCESS

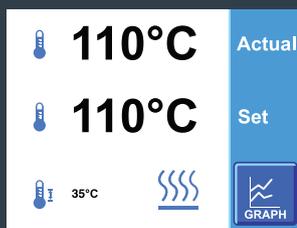
Press **○** to start the heating cycle and stand at a safe distance.

There is a 5 second countdown before the cycle starts.



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

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



3. COMPLETION

Press **○** to stop the heating cycle.

The induction heater will now demagnetize.

Hereafter it will return to the first screen.



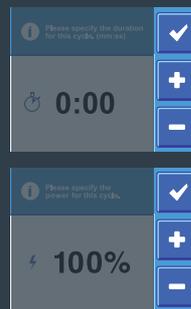
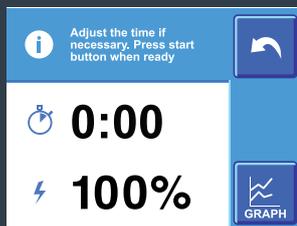


TIME MODE

1. PREPARATION

To change the heating time press **🕒 0:00**
 To change the max. power output press **⚡ 100%**

Otherwise proceed to step 2.



Press **+** or **-** to change the time (max. 99:59).

Press **✓** when the time is set.

Press **+** or **-** to change the max. power output.

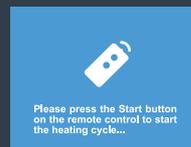
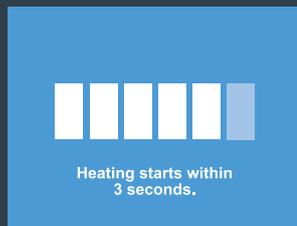
Press **✓** when the max. power output is set.

When using smaller yoke sizes on a SURETHERM PRO heater, make sure to reduce the maximum power output. See **page 13** for an overview of the advised max. power output per yoke size.

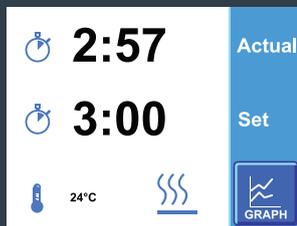
2. HEATING PROCESS

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.

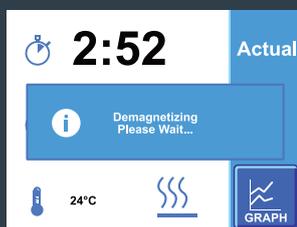


3. COMPLETION

Press **🔵** to stop the heating cycle.

The induction heater will now demagnetize.

Hereafter it will return to the first screen.



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:

U0 **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, French, and Italian. More languages can be added later.

U2 **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.

U5 **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 (50°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 (Off)**

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)**

When the user starts the heating process there will be able to get to a safe distance. The factory set delay is 5 seconds.

U13 **Date Format (DD/MM)**

The Date Format can be set to Day/Month or Month/Day.

U14 **Screensaver (0)**

The settings for the screen saver can be set here, ranging from off (0) to a certain number of minutes.

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.

U18 **Time Format (24:00)**

The Time Format can be set to 24:00 or AM/PM.

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 with the yokes and to avoid corrosion (in the case of heaters with a pivoting yoke, also grease the vertical pin regularly).
- ▶ CRITICAL SPARE PART - Magnetic temperature sensor. Always use original spare parts, we can not guarantee a proper functioning using other parts. Ask your local distributor for more information.

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.



WARNING

7

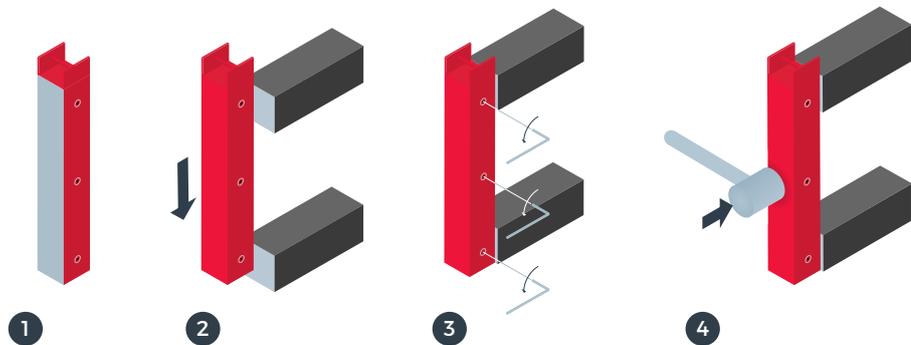
MALFUNCTION

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.



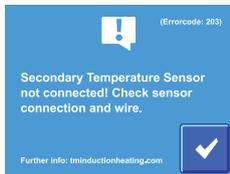
WARNING

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.



ERRORS

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.



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^{PRO} 1X

Power rating	12.8 kVA
Voltage	400 - 575 V
Current max.	32 A @ 400 V
Frequency	50 / 60Hz
Weight	157 kg
Max. weight workpiece	400 kg



Base dimensions - 850 x 410 x 1050 mm

SURETHERM^{PRO} 3X

Power rating	25.2 kVA
Voltage	400 - 575 V
Current max.	63 A @ 400 V
Frequency	50 / 60Hz
Weight	280 kg
Max. weight workpiece	800 kg



Base dimensions - 1080 x 500 x 1350 mm

SURETHERM^{PRO} 6X

Power rating	40 kVA
Voltage	400 - 575 V
Current max.	100 A @ 400 V
Frequency	50 / 60Hz
Weight	650 kg
Max. weight workpiece	1600 kg



Base dimensions - 1500 x 800 x 1530 mm



1 Sensor Mode	0 - 240°C *	Power 5 - 100%
Ramp Mode	5 - 240°C *	0:00 - 99:59 (mm:ss / hh:mm)
2 Sensor Mode	0 - 240°C *	ΔT 20 - 50°C
Time Mode	0:00 - 30:00 (mm:ss)	Power 5 - 100%

CONTROLS

* = 20 - 400°C, available on custom 400°C execution

Min. Bore	1X	3X	6X
ø30	20 x 20 x 490 P	n/a	n/a
ø40	30 x 26 x 490 P	30 x 26 x 750	n/a
ø55	40 x 38 x 490 P	40 x 38 x 750	n/a
ø70	50 x 48 x 490 P	50 x 48 x 750	n/a
ø85	60 x 60 x 490 P	60 x 60 x 750	60 x 60 x 1080
ø100	70 x 70 x 490 P	70 x 70 x 750	n/a
ø115	80 x 80 x 490 P	80 x 80 x 750	80 x 80 x 1080
ø130	n/a	90 x 90 x 750	n/a
ø145	n/a	100 x 100 x 750	100 x 100 x 1080
ø215	n/a	n/a	150 x 150 x 1080

YOKES

(IN MILLIMETERS)

P = Available for Pivoting execution

Ext. yokes
(lxwxh)

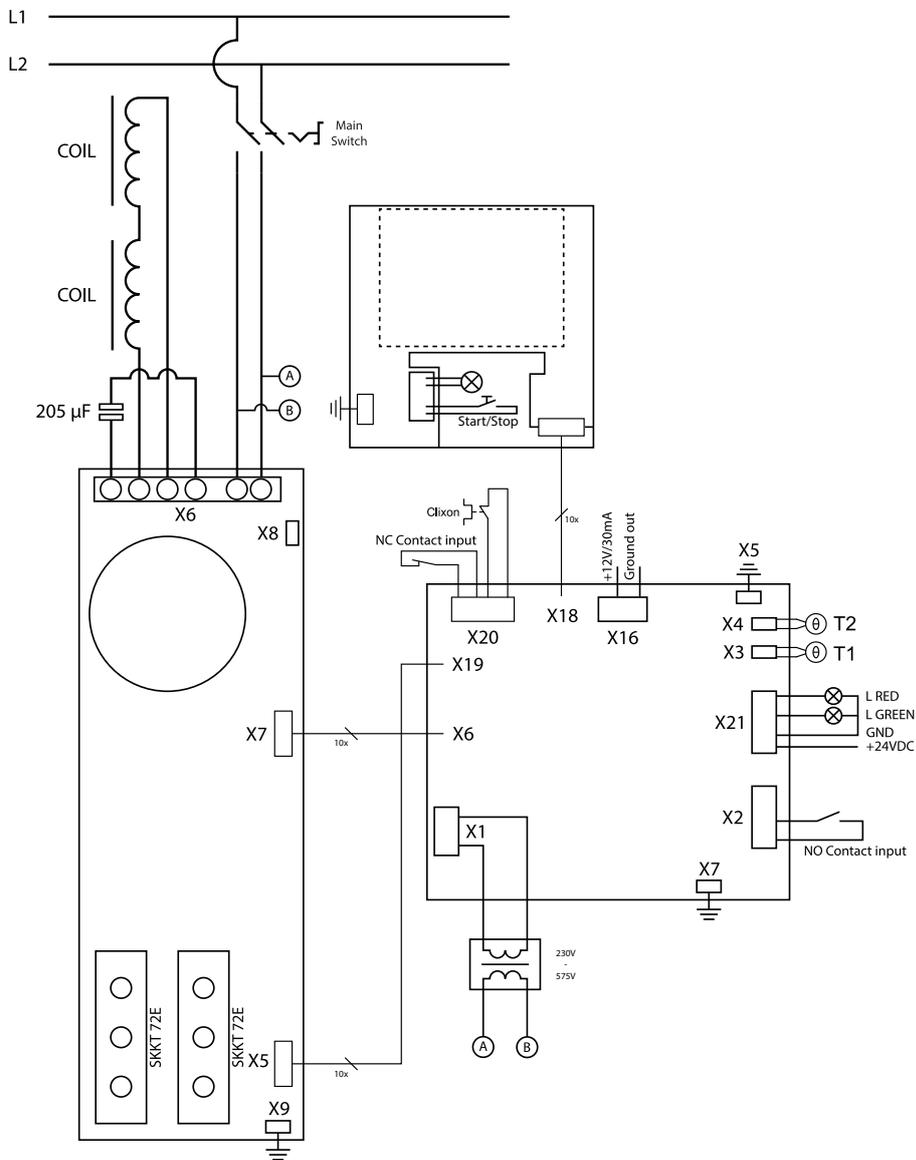
80 x 80 x 150 P	n/a	n/a
80 x 80 x 200 P	n/a	n/a



ADDITIONAL INFORMATION

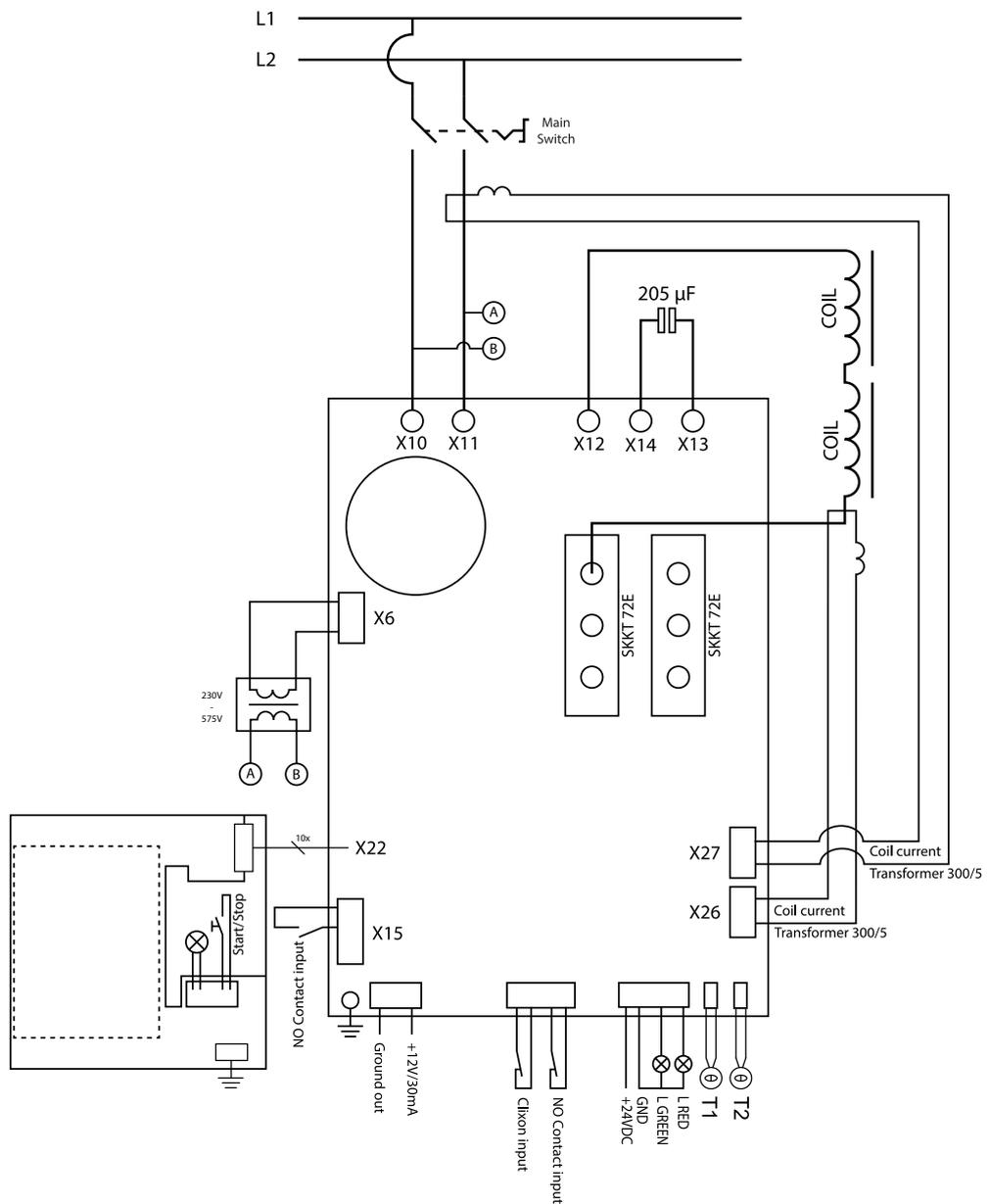
Error report	Shown in display
Heating graph	Shown in display
1 Sensor Mode	Set / actual temperature, time, and power
Ramp Mode	Set / actual temperature, time, and power
2 Sensor Mode	Set / actual temperature, ΔT , time, and power
Time Mode	Set / actual time
External interface	USB 2.0 Port
Sound signal	Buzzer
Demagnetizing	<2A/cm
Temperature hold	Yes
Thermal safety guard coil	Yes
Magnetic probe	2 sensors

Languages	English, Spanish, German, French, Italian
Warranty	24 months
Extended Warranty	+ 12 months



ELECTRICAL DRAWING

Electrical drawing SURETHERM PRO 3X





STATEMENT OF CONFORMITY

9

TM Induction Heating consistently provides products that meets customer and applicable statutory and regulatory requirements. ISO 9001:2015 specifies the requirements for a quality management system.



Management
System
ISO 9001:2015
www.tuv.com
ID 9000001589

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.

SURETHERM

DECLARATION OF CONFORMITY

Manufacturer TM Induction Heating

Address Nobelstraat 14
3846 CG Harderwijk
The Netherlands

We hereby declare that the supplied version of

Product Induction heater

Type SURETHERM^{PRO} 1X

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:

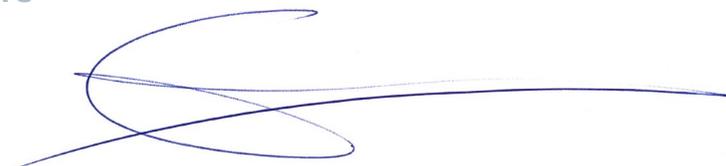
Risk Assessment EN-ISO 12100:2010

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

Product Induction heater

Type SURETHERM^{PRO} 3X

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:

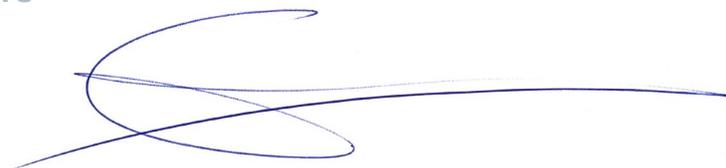
Risk Assessment EN-ISO 12100:2010

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

Product Induction heater

Type SURETHERM^{PRO} 6X

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:

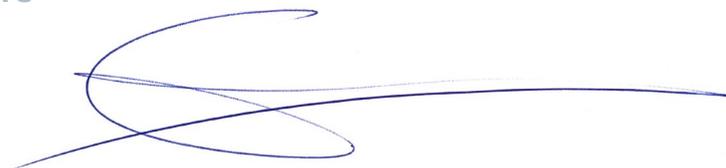
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NEN 3140/A1:2015

Name Mr. E. van Dijk

Function General Manager

Signature





user manual
SURETHERM PRO
version 2.5 - 2022

HEATING
DONE
RIGHT.

