

**THE  
INDUCTION  
INNOVATORS.**

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**COMPANY  
PROFILE.**

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# THE INDUCTION INNOVATORS.

## Global expertise, proven at scale

TM Induction Heating has been a global leader in industrial induction heating solutions for over 30 years. With more than 50,000 units sold worldwide, our advanced heating technology is the trusted choice for industries where precision, efficiency, and reliability matter — automotive, aerospace, railway, heavy equipment, renewable energy, mining and many more.

## Engineered for precision and efficiency

Our dedication to induction heating technology allows us to lead with innovation, outperform in reliability, and deliver energy-efficient solutions that lower the total cost of ownership. From standard induction heaters to custom shrink-fit assembly solutions and high-performance automated induction systems, we provide world-class heating technology designed to maximize uptime and enhance productivity.

## A new chapter with Include Industries

In October 2024, TM Induction Heating transitioned from a family-owned business to become part of Include Industries, a strategic group of small industrial champions that accelerates the growth of high-potential businesses. Include Industries specializes in acquiring and developing strong, innovative companies while preserving their legacy and ensuring continuity for their teams. Unlike traditional private equity firms, Include Industries

focuses on long-term value creation and sustainable growth, positioning TM Induction Heating for continued success in a competitive global market.

## Built for long-term growth

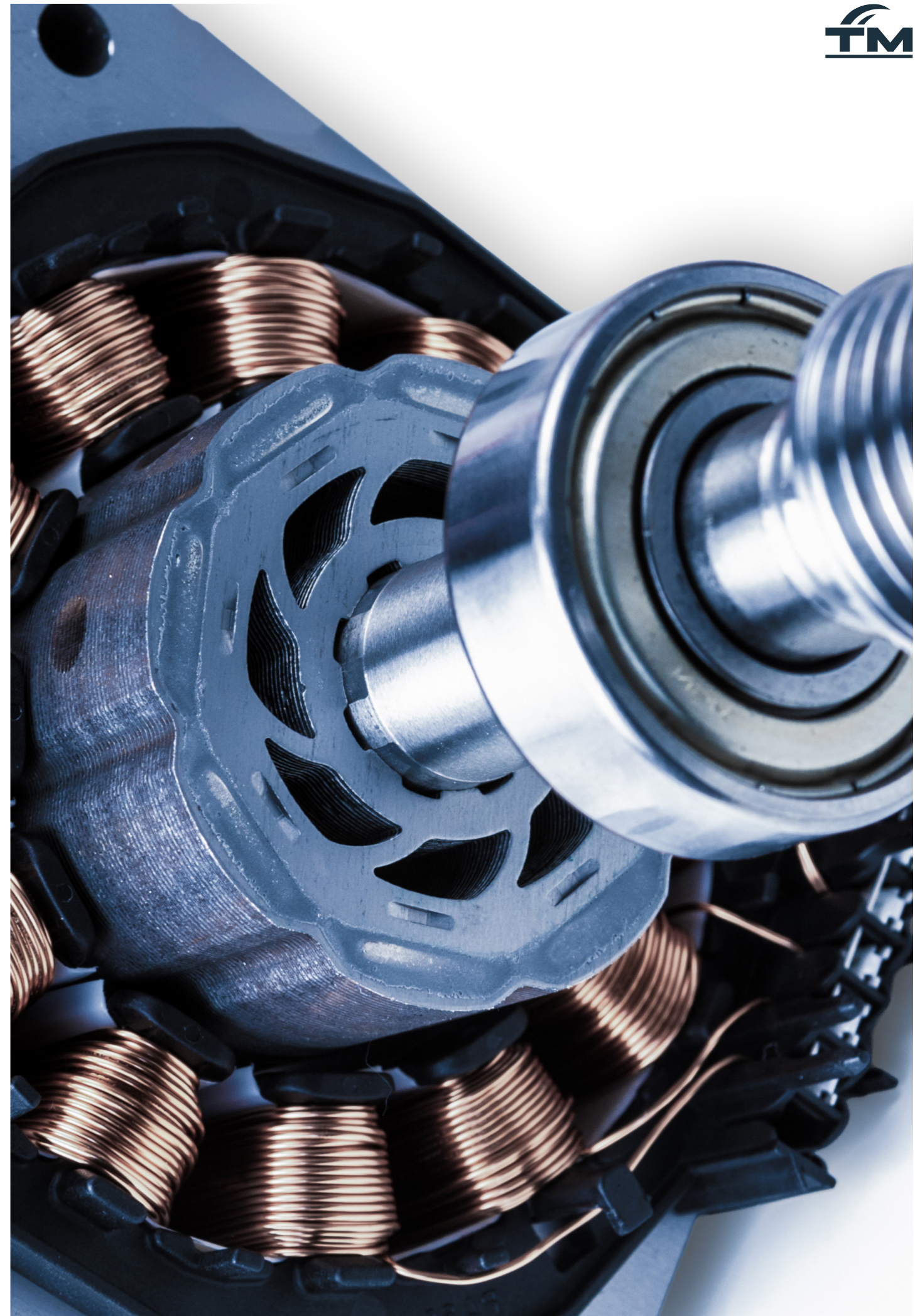
Our modular product designs allow for seamless integration into production environments, ensuring flexibility, scalability, and future-proof performance. We don't just provide machines — we deliver turnkey heating solutions, backed by expert training, application support and a global service network for full lifecycle support.

## Designed for seamless integration

When precision, efficiency, and reliability are critical, TM Induction Heating is the first choice. Join thousands of industry leaders who trust our technology to drive their production forward with superior performance and cost efficiency.

## How TM is different from others

Our heaters uniquely combine an optimized coil configuration with proportional PID control, ensuring precise, stable, and even heating cycles. Beyond the technology, we set ourselves apart through application expertise. With our wealth of expertise, we can swiftly advise on the right heater for any shrink-fit assembly job, can easily adapt standard systems for a perfect fit, and develop fully customized solutions when required, for any heavy-industry business.



# WHY INDUCTION HEATING?

Induction heating is the modern, clean alternative to traditional heating methods like oil baths, ovens and open flames. It delivers superior results with less energy, less time and zero contamination. Discover why thousands of industry leaders trust TM induction heaters for their most critical heating applications.

**Global expertise proven at scale**

Induction heating delivers rapid, uniform heat directly to the workpiece. Heating times are reduced by up to 80% compared to conventional methods, with precise temperature control from start to finish.

**Clean & flameless**

No open flames, no oil baths, no smoke. Induction heating is a clean process that meets the strictest workplace safety and environmental requirements.

**Energy efficient**

Induction heating converts over 90% of input energy into heat in the workpiece. This far exceeds the efficiency of oil baths (30%) and resistance ovens (50%).

**Precise & repeatable**

Digital temperature control with sensor feedback ensures consistent results. Every heating cycle is identical, eliminating human error and reducing scrap.

**Low maintenance**

TM induction heaters have no consumable parts and require minimal maintenance. The total cost of ownership is significantly lower than conventional methods.

**Automatic demagnetizing**

Built-in demagnetizing brings residual magnetism below 2 A/cm after each heating cycle. Essential for bearings and precision components.



# THE INDUSTRIES WE SERVE.

TM Induction Heating serves a wide range of industries worldwide. With more than 50,000 units sold globally and over 30 years of experience, our heating technology is the trusted choice where precision, efficiency, and reliability matter. From automotive and aerospace to mining, maritime and energy, our induction heaters are engineered for the most demanding environments. Below a number of typical parts and components per industry are listed that can benefit from shrink-fit assembly or disassembly using induction heating. Please note this is only a small sample of all use cases.

**AEROSPACE**

Precision turbine components, landing gear assemblies, engine bearing housings.

**AUTOMOTIVE**

Bearing assemblies, drivetrain components, engine block housings, transmission parts.

**DEFENSE**

Military vehicle components, naval propulsion systems.

**ELECTRIC MOTORS**

Rotor shaft assemblies, bearing housings, end shield components.

**FOOD**

Mixer bearings, conveyor drive components, pump shaft assemblies.

**HYDROPOWER**

Turbine bearings, generator shaft assemblies, guide vane components.

**MARITIME**

Propulsion shaft bearings, coupling assemblies, onboard rotating equipment.

**MEDICAL**

Precision bearing assemblies, instrument components, tooling parts.

**MINING**

Crusher bearings, conveyor rollers, excavator components, screening equipment.

**OIL & GAS**

Pump bearings, compressor components, pipeline equipment, valve assemblies.

**PAPER**

Press roll bearings, dryer cylinder components, calender rolls.

**PUMPING**

Pump shaft bearings, impeller assemblies, seal housings.

**ROLLING STOCK**

Wheel bearings, axle assemblies, traction motor components for railway.

**STEEL PRODUCTION**

Rolling mill bearings, continuous casting equipment, steel coil handling.

**WINDPOWER**

Main shaft bearings, generator components, gearbox assemblies.

**OTHER INDUSTRIES**



# SELECTING THE RIGHT INDUCTION HEATER.

## Product:

- **PORTATHERM SERIES**  
(Expected end of 2026)
- **EASYTHERM SERIES**  
EASYTHERM 1  
EASYTHERM 2  
EASYTHERM 3.5  
EASYTHERM 15  
EASYTHERM 30
- **SURETHERM SERIES**  
SURETHERM 5X  
SURETHERM 10X  
SURETHERM 20X  
SURETHERM 30X  
SURETHERM PRO 1X  
SURETHERM PRO 1X PIVOT  
SURETHERM PRO 3X  
SURETHERM PRO 6X
- **EXTRATHERM SERIES**  
EXTRATHERM 01 A/W  
EXTRATHERM 03 A/W  
EXTRATHERM 05 A/W  
EXTRATHERM 10 A/W  
EXTRATHERM 20 A/W  
EXTRATHERM 30 A/W  
EXTRATHERM 40 A/W
- **PROTHERM SERIES**  
U-LINE  
S-LINE  
H-LINE  
STATOR HOUSING-LINE  
ROTOR-LINE

## Industry:

- Aerospace
- Automotive
- Defense
- Electric Motors
- Food
- Hydropower
- Maritime
- Medical
- Mining
- Oil & Gas
- Paper
- Pumping
- Rolling stock
- Steel production
- Windpower
- Other industries

## Workpiece:

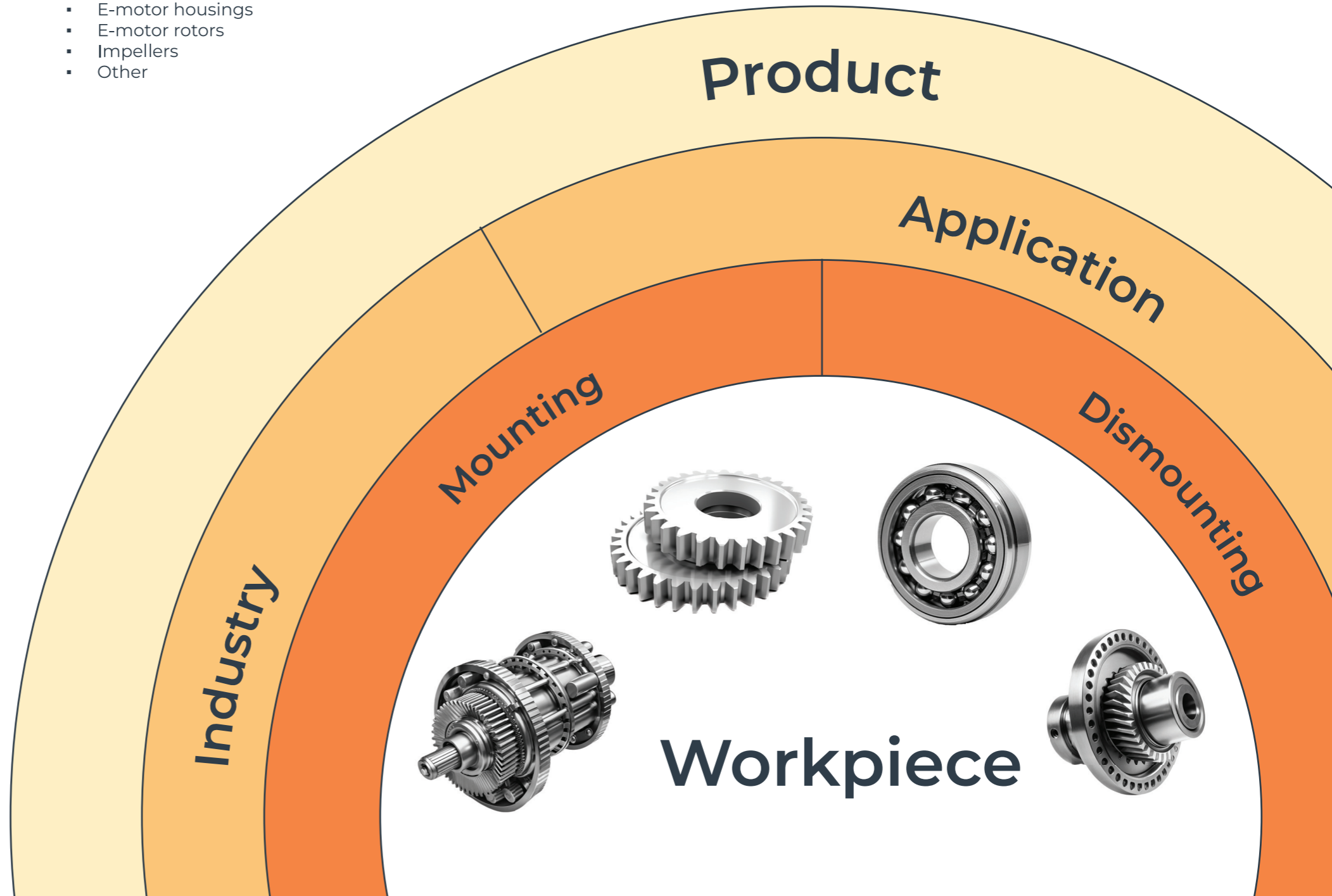
- Bearings
- Gears
- Gearbox (housing)
- Synchros
- Wheels / steel tyres
- Walzes
- Crusher rollers
- Couplings
- (Labyrinth) rings
- E-motor housings
- E-motor rotors
- Impellers
- Other

## Application:

- Sub assembly
- Production
- Maintenance
- Refurbishment
- Field service













## Process:

- Mounting
- Dismounting



# THE WORKPIECES WE HEAT.

TM induction heaters are used for controlled heating of ring-shaped metal parts across a wide range of applications. From bearings and gears to wheels and motor components, our heaters deliver fast, uniform and precise heating for assembly, maintenance and repair. Whether you need to heat a 100-gram bearing or a 100-tonnes wheel, TM has the right solution. Our range covers workpieces from 10 mm to 2,500 mm inner diameter.

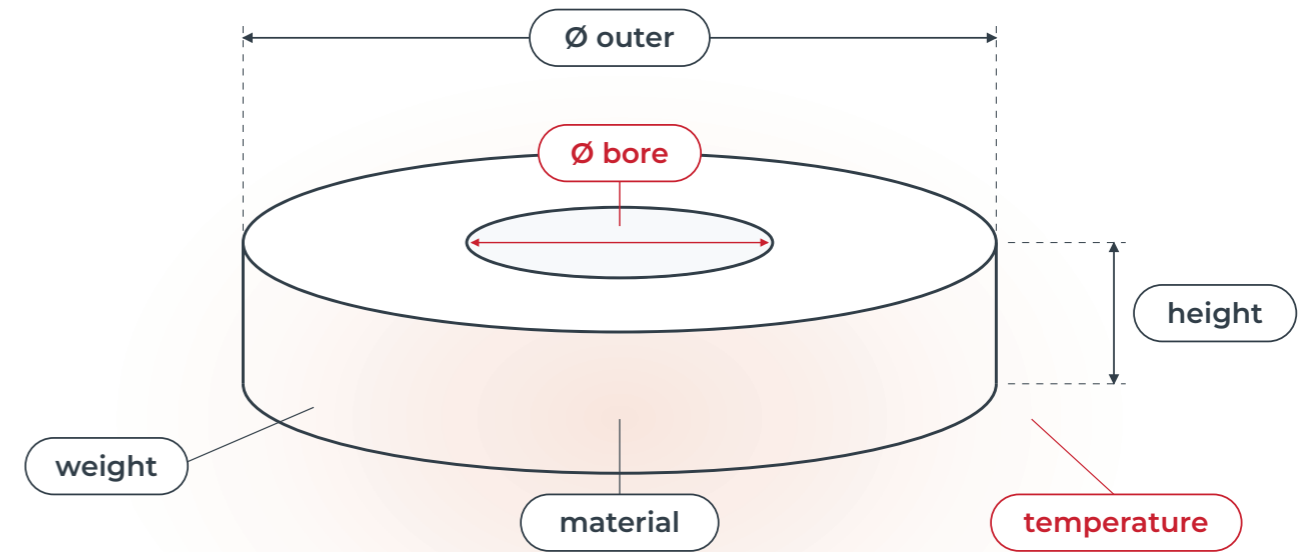
 Bearings	 Gears	 Gearbox (housing)	 Synchros
 Wheels / steel tyres	 Walzes	 Crusher rollers	 Couplings
 (Labyrinth) rings	 E-motor housings	 E-motor rotors	 Impellers

## Other workpieces and applications

The icons above cover our most common applications. TM induction heaters serve a much wider range of components and industries, from precision parts in automotive and aerospace to heavy-duty equipment in mining, energy and production environments. Share your specific workpiece details and we will recommend the most suitable solution.

## Tell us about your workpiece

Every workpiece reacts differently in an induction field. Its material, size and the process you run all shape the right heater choice — share what you know about your part, and we'll match it to the ideal TM solution.



### 01 — MATERIAL

The metal determines how efficiently our electromagnetic field couples with your part, and how fast it heats.

**Options:** Steel · Aluminium · Stainless steel · Cast iron

### 02 — DIMENSIONS

Size and weight tell us the energy profile needed for a uniform, repeatable result.

**What we ask:** Inner diameter · Outer diameter · Height · Weight · Target temperature

### 03 — PROCESS & USE

How and where you'll use the heater shapes the cycle profile.

**Process:** Mounting · Dismounting

**Application:** Subassembly · Production · Maintenance · Refurbishment · Field service



Tell us about your workpiece online

## FIND YOUR RECOMMENDATION.

Answer a few questions and we'll recommend the right induction heater for your workpiece.

[tminductionheating.com/your-workpiece](https://tminductionheating.com/your-workpiece)

# THE TYPICAL PROCESSES & APPLICATIONS WE COVER.

TM induction heaters support a wide range of industrial processes and applications. Whether you are mounting bearings onto shafts or dismantling seized components for maintenance, our solutions deliver precise, controlled heat exactly where it is needed.

## PROCESSES.

### Mounting

Thermal expansion of ring-shaped parts for interference-fit assembly. The workpiece is heated evenly and placed onto the shaft, creating a secure press-fit as it cools.

### Dismounting

Controlled heating to release seized or interference-fit components without damage. Enables safe removal of bearings, gears and other press-fit parts during maintenance or repair.

## APPLICATIONS.

### Subassembly

Precision assembly of components into larger units. Bearings into gearboxes, rings onto shafts, housings onto frames.

### Maintenance

Scheduled replacement and refitting of worn components. Quick heating minimizes downtime and prevents damage.

### Field Service

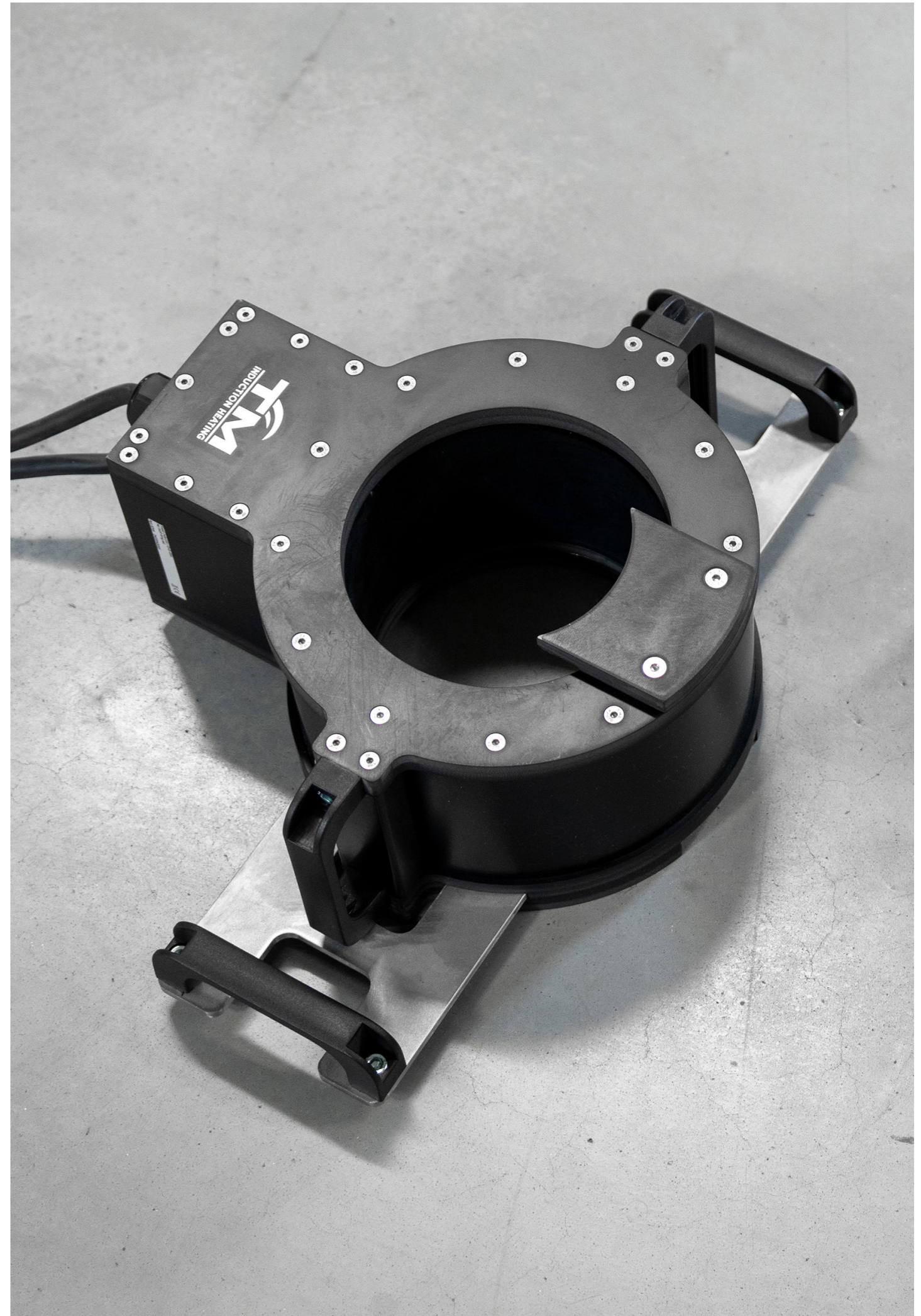
On-site heating for remote locations and emergency repairs. Portable solutions with workshop-quality results.

### Production

High-volume, continuous heating in production lines. Optimized for speed, repeatability and energy efficiency.

### Refurbishment

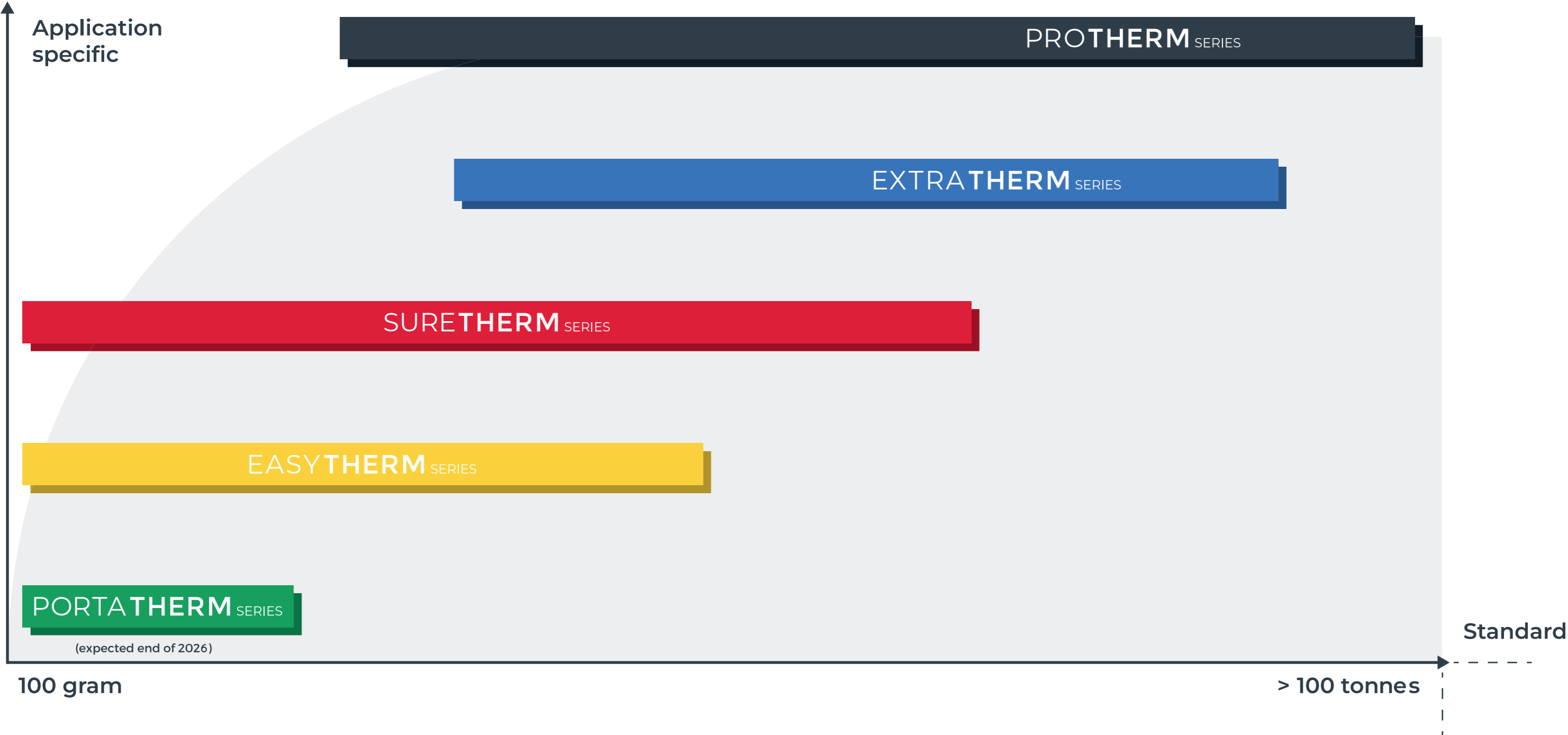
Restoration of heavy industrial equipment. Dismounting and remounting of large-scale components.



# FROM STANDARD HEATERS TO CUSTOM-BUILT SYSTEMS.

TM Induction Heating provides a complete range of induction heating solutions, grouped into five dedicated product families. Each series is designed to cater to a specific range of application needs, covering everything from light, standard workpieces to large, heavy-duty applications.

Together, these product families create a scalable and overlapping portfolio, ensuring the right solution is available based on workpiece size, application demands, and required level of control.



# TM'S 5 PRODUCT CATEGORIES.

TM Induction Heating offers a complete range of induction heating solutions, structured into five product families. Each series is designed to match a specific application level and workpiece range, from compact and portable solutions to heavy-duty and fully customized systems. This clear structure helps you select the right heater based on part size, process requirements and the level of control needed, whether you work in maintenance, assembly, or production.

Across the portfolio, the focus remains the same, reliable performance, controlled heating cycles

and consistent results. Depending on the series, solutions range from flexible mobile generators for complex geometries to dedicated low-frequency induction heaters for bearings, gears and similar components. For higher demands, the range expands toward more application-specific configurations and custom-built systems designed around the workpiece and process. Together, these five product categories cover a broad spectrum of industries and applications, providing a scalable path from standard solutions to tailored systems when requirements exceed the limits of off-the-shelf equipment.



## SURETHERM SERIES

Smart bearing heaters that heat uniformly and demagnetize automatically, with controlled temperature ramps for fast, repeatable shrink-fit installations. Equipped with the original dual-sensor technology that TM invented and introduced to the market.

EXPECTED  
END OF 2026

## PORTATHERM SERIES

Ultra-portable induction heater for on-site maintenance, field service and workshop applications. Compact, lightweight design with multi-frequency output for fast, flameless heating anywhere.



## EXTRATHERM SERIES

Compact high-frequency heater that frees fixed parts and components in seconds — clean, targeted heat anywhere without flames or mess. The generator can be supplied with various flexible or custom coils.



## EASYTHERM SERIES

Versatile workshop induction heaters for daily assembly and maintenance tasks. Programmable temperature control, automatic demagnetization and a wide range of models for workpieces from 1 to 300 kg.



## PROTHERM SERIES

Fully custom-built induction heating systems engineered for your specific workpiece and process. Five product lines: U-LINE, H-LINE, S-LINE, STATOR HOUSING-LINE and ROTOR-LINE, covering industries from e-mobility to mining, heating parts up to 100 tonnes.

# EASYTHERM SERIES

## General features

All EASYTHERM induction heaters are built for fast and controlled heating prior to assembly. They are easy-to-use, maintenance free, and suitable for a wide range of components.

## Proven in the field

Thousands of factories and workshops use EASYTHERM induction heaters worldwide. EASYTHERM heaters have been used in manufacturing, service and repairs since 2004, and many early units are still in daily use today.

## Heating modes

EASYTHERM offers clear heating modes that fit both workshop jobs and repeatable production work. Temperature Mode uses a sensor on the workpiece and supports a range from 0°C to 240°C. On the larger models, Time Mode is available for consistent heating of parts with the same specifications with the same specifications.

## Made to keep it simple

The EASYTHERM series focuses on robust, powerful operation with user-friendly controls. Standard functions like auto-demagnetizing and Temperature Hold help you run a straightforward heating cycle without hassle.



## MODELS

## WORKPIECE CAPABILITY

## SPECIAL FEATURES

### EASYTHERM 1

Ø 10 – 170 mm,  
max. 10 kg

Ultra-compact workshop unit; Temperature Mode with magnetic temperature sensor, 0–240°C; Auto Demagnetizing and Temperature Hold; sound signal; supplied with support rails, heat-resistant gloves and standard yokes for small bearings and other parts.

### EASYTHERM 2

Ø 10 – 290 mm,  
max. 40 kg

Portable service model; Temperature Mode with magnetic temperature sensor, 0–240°C; Auto Demagnetizing and Temperature Hold; sound signal; supplied with support rails, gloves and a wider yoke set; optional carrying case for transport.

### EASYTHERM 3.5

Ø 10 – 370 mm,  
max. 70 kg

Mid-size workshop model with pivoting yoke for repeatable work; Temperature Mode with magnetic sensor, 0–240°C; Time Mode for consistent cycles; Auto Demagnetizing and Temperature Hold; supplied with support rails, gloves and pivoting yoke for medium sized bearings and other parts.

### EASYTHERM 15

Ø 20 – 490 mm,  
max. 150 kg

Heavy-duty workshop unit for larger bearings and other parts; Temperature Mode with magnetic sensor, 0–240°C; Time Mode for repeatable production cycles; Auto Demagnetizing and Temperature Hold; supplied with larger standard yokes and optional yokes for more applications.

### EASYTHERM 30

Ø 30 – 660 mm,  
max. 300 kg

Highest-capacity EASYTHERM model; Temperature Mode with magnetic sensor, 0–240°C; Time Mode for production repeatability; Auto Demagnetizing and Temperature Hold; supplied with large yoke set, optional yokes for extended range; optional trolley for mobility.

	EASYTHERM 1	EASYTHERM 2	EASYTHERM 3.5	EASYTHERM 15	EASYTHERM 30
<b>CAPACITY</b>					
Max. workpiece weight	10 kg	40 kg	70 kg	150 kg	300 kg
Min. bore (vertical)	Ø 15 mm	Ø 10 mm	Ø 10 mm	Ø 20 mm	Ø 30 mm
Max. outer Ø (vertical)	Ø 230 mm	Ø 250 mm	Ø 360 mm	Ø 485 mm	Ø 610 mm
Max. width (vertical)	65 mm	120 mm	180 mm	210 mm	330 mm
Min. bore (horizontal)	Ø 44 mm	Ø 66 mm	Ø 80 mm	Ø 108 mm	Ø 125 mm
Max. outer Ø (horizontal)	Ø 160 mm	Ø 270 mm	Ø 410 mm	Ø 490 mm	Ø 710 mm
Max. width (horizontal)	99 mm	104 mm	155 mm	207 mm	265 mm
<b>ELECTRICAL</b>					
Power rating	2.3 kVA	2.99 kVA	3.7 kVA	8 kVA	12.8 kVA
Voltage	115 or 230 V	115 or 230 V	115 or 230 V	400–575 V	400–575 V
Current max.	10 A	13 A	16 A	20 A	32 A
Frequency	50–60 Hz	50–60 Hz	50–60 Hz	50–60 Hz	50–60 Hz
<b>CONTROLS</b>					
Temperature (1 sensor)	0–240°C	0–240°C	0–240°C	0–240°C	0–240°C
Temperature (2 sensors)	—	—	—	—	—
Time control	—	—	99 min 59 sec	99 min 59 sec	99 min 59 sec
Time / Temp Ramp	—	—	—	—	—
Heating graph	—	—	—	—	—
Set power	—	—	—	—	—
<b>FEATURES</b>					
Sound signal	Buzzer	Buzzer	Buzzer	Buzzer	Buzzer
Temperature hold	Yes	Yes	Yes	Yes	Yes
Demagnetizing	< 2A/cm	< 2A/cm	< 2A/cm	< 2A/cm	< 2A/cm
Magnetic probe	1 sensor	1 sensor	1 sensor	1 sensor	1 sensor
Thermal safety guard	—	—	—	—	—
Touchscreen	—	—	—	—	—
<b>DIMENSIONS &amp; WEIGHT</b>					
L x W x H	230 x 200 x 250 mm	200 x 340 x 255 mm	415 x 260 x 340 mm	505 x 260 x 400 mm	807 x 307 x 550 mm
Unit weight	9 kg	14 kg	29 kg	62 kg	119 kg
<b>ACCESSORIES &amp; OPTIONS</b>					
Standard yokes	3 yokes	3 yokes	3 yokes	2 yokes	1 yoke
Optional yokes	1 yoke	3 yokes	3 yokes	6 yokes	6 yokes
Trolley	—	—	—	—	Optional
Carrying case	—	Optional	—	—	—

# SURETHERM SERIES

## General features

All SURETHERM heaters are low-frequency units that heat only the workpiece, ensuring gradual, uniform and stress-free heating. They offer real-time feedback via a multi-lingual touchscreen, dual-sensor mode for tension-free heating, and the ability to export heating cycle data with a click on a button.

## Heating done right

Our new generation of low-frequency induction heating equipment offers the most efficient heaters for a wide range of applications. Equipped

with 2 Sensor Technology, SURETHERM assures safe and stress-free heating. The efficient power regulation takes care of the rapid heating process.

## All new design

Each unit is equipped with a user-friendly interface, an expanded operation area and an unrivalled power factor.

## Low-frequency

A low-frequency heater provides a secure heating solution by gradually and uniformly heating the workpiece.



## MODELS

## WORKPIECE CAPABILITY

## SPECIAL FEATURES

MODELS	WORKPIECE CAPABILITY	SPECIAL FEATURES
<b>SURETHERM 5X</b>	Ø 15 – 300 mm, max. 25 kg	Ultra-compact and portable; supplied with multiple yokes and two temperature sensors; optional carrying case; 4 heating modes with dual-sensor technology and real-time cycle graphs.
<b>SURETHERM 10X</b>	Ø 10 – 400 mm, max. 50 kg	Portable yet more powerful; intuitive touchscreen; pivoting yokes for easy loading; optional trolley or carrying case; dual-sensor mode for tension-free heating.
<b>SURETHERM 20X</b>	Ø 15 – 500 mm, max. 100 kg	Workshop model with large operation area and pivoting yokes; user-friendly interface and data export; delivers safe, low-frequency heating for medium-sized components.
<b>SURETHERM 30X</b>	Ø 30 – 600 mm, max. 200 kg	Higher-power model running on 400–575 V; offers larger working space; pivoting yokes and adjustable supports; dual sensors and touchscreen for precise control.
<b>SURETHERM PRO 1X</b>	Ø 30 – 1000 mm, max. 400 kg	Heavy-duty unit for industrial use; fixed yoke design with optional trolley or sliding table; touchscreen control, USB export and dual-sensor mode.
<b>SURETHERM PRO 1X-P</b>	Ø 30 – 1000 mm, max. 400 kg	Same capacity as PRO 1X but with pivoting yokes for easier positioning of large components; ergonomic design and all-the-same control features.
<b>SURETHERM PRO 3X</b>	Ø 40 – 1500 mm, max. 800 kg	Handles very large bearings and gears; includes sliding worktable and heavy-duty pivoting yokes; high-power generator with real-time feedback and dual-sensor control.
<b>SURETHERM PRO 6X</b>	Ø 85 – 2000 mm, max. 1600 kg	Flagship model for extremely large components; custom specifications available; dual-sensor heating with comprehensive cycle graphs; optional accessories for safe handling of heavy parts.

	SURETHERM 5X	SURETHERM 10X	SURETHERM 20X	SURETHERM 30X
<b>CAPACITY</b>				
Max. workpiece weight	25 kg	50 kg	100 kg	200 kg
Min. bore (vertical)	Ø 15 mm	Ø 10 mm	Ø 15 mm	Ø 30 mm
Max. outer Ø (vert.)	Ø 330 mm	Ø 330 mm	Ø 416 mm	Ø 500 mm
Max. width (vertical)	120 mm	120 mm	175 mm	205 mm
Min. bore (horiz.)	Ø 66 mm	Ø 66 mm	80 mm	Ø 108 mm
Max. outer Ø (horiz.)	Ø 300 mm	Ø 400 mm	500 mm	Ø 600 mm
Max. width (horiz.)	145 mm	145 mm	180 mm	210 mm
<b>ELECTRICAL</b>				
Power rating	2.3 kVA	3 kVA	3.7 kVA	8 kVA
Voltage	110/230V	110/230V	110/230V	400/575V
Current max.	10 A	13 A	16 A	20 A
Frequency	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz
<b>CONTROLS</b>				
Temp. (1 sensor)	0-240°C	0-240°C	0-240°C	0-240°C
Temp. (2 sensors)	Optional	Standard	Standard	Standard
Time control	0-99 min	0-99 min	0-99 min	0-99 min
Time / Temp Ramp	Yes	Yes	Yes	Yes
Heating graph	Yes	Yes	Yes	Yes
Set power	5-100%	5-100%	5-100%	5-100%
<b>FEATURES</b>				
Sound signal	Buzzer	Buzzer	Buzzer	Buzzer
Temperature hold	Yes	Yes	Yes	Yes
Demagnetizing	<2A/cm	<2A/cm	<2A/cm	<2A/cm
Magnetic probe	1 piece	2 sensors	2 sensors	2 sensors
Thermal safety	Yes	Yes	Yes	Yes
Touchscreen	Yes	Yes	Yes	Yes
<b>DIMENSIONS &amp; WEIGHT</b>				
L x W x H	405 x 205 x 275	450 x 210 x 275	540 x 275 x 315	695 x 330 x 375
Unit weight	16 kg	21 kg	40 kg	85 kg
<b>ACCESSORIES &amp; OPTIONS</b>				
Standard yokes	2	4	1	1
Optional yokes	4	3	7	7
Carrying case	Optional	Optional	—	—
Trolley	—	—	—	—
Lifting device	—	—	—	—

	SURETHERM PRO 1X	SURETHERM PRO 1X-P	SURETHERM PRO 3X	SURETHERM PRO 6X
<b>CAPACITY</b>				
Max. workpiece weight	400 kg	400 kg	800 kg	1600 kg
Min. bore (vertical)	Ø 115 mm	Ø 30 mm	Ø 300 mm	Ø 400 mm
Max. outer Ø (vert.)	Ø 728 mm	Ø 728 mm	Ø 1140 mm	Ø 1640 mm
Max. width (vertical)	290 mm	320 mm	425 mm	675 mm
Min. bore (horiz.)	Ø 30 mm	Ø 115 mm	Ø 45 mm	Ø 85 mm
Max. outer Ø (horiz.)	Ø 1000 mm	Ø 1000 mm	Ø 1500 mm	Ø 2000 mm
Max. width (horiz.)	315 mm	290 mm	485 mm	695 mm
<b>ELECTRICAL</b>				
Power rating	12.8 kVA	12.8 kVA	25.2 kVA	40 kVA
Voltage	400-575V	400-575V	400-575V	400-575V
Current max.	32 A	32 A	63 A	100 A
Frequency	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz
<b>CONTROLS</b>				
Temp. (1 sensor)	0-240°C	0-240°C	0-240°C	0-240°C
Temp. (2 sensors)	Standard	Standard	Standard	Standard
Time control	0-99 min	0-99 min	0-99 min	0-99 min
Time / Temp Ramp	Yes	Yes	Yes	Yes
Heating graph	Yes	Yes	Yes	Yes
Set power	5-100%	5-100%	5-100%	5-100%
<b>FEATURES</b>				
Sound signal	Buzzer	Buzzer	Buzzer	Buzzer
Temperature hold	Yes	Yes	Yes	Yes
Demagnetizing	<2A/cm	<2A/cm	<2A/cm	<2A/cm
Magnetic probe	2 sensors	2 sensors	2 sensors	2 sensors
Thermal safety	Yes	Yes	Yes	Yes
Touchscreen	Yes	Yes	Yes	Yes
<b>DIMENSIONS &amp; WEIGHT</b>				
L x W x H	850 x 410 x 1050	850 x 410 x 1050	1080 x 500 x 1350	1500 x 800 x 1530
Unit weight	157 kg	157 kg	280 kg	650 kg
<b>ACCESSORIES &amp; OPTIONS</b>				
Standard yokes	1	3	1	1
Optional yokes	6	4	7	3
Carrying case	—	—	—	—
Trolley	Optional	Optional	Optional	Optional
Lifting device	Optional	Optional	Optional	Optional

# EXTRATHERM SERIES

EXTRATHERM generators deliver targeted induction heating for production lines and mobile applications. Each unit is purpose-built for its application, from compact line-integrated generators to powerful portable units for mounting and dismantling large components. And can be supplied with various flexible or custom coils.

The range includes models with advanced control features such as dual-sensor heating, multi-segment temperature profiles, and external communication for PLC integration. All models feature touchscreen operation with USB data export for traceability and are available in either air-cooled or water-cooled versions.



## MODELS

## WORKPIECE CAPABILITY

## SPECIAL FEATURES

### EXTRATHERM 01 A/W

Output: up to 2 kW  
110 / 230V, 19 kg

Compact entry-level mid-frequency generator; dual-sensor operation; time/temperature ramp profiles; multi-segment profiling; touchscreen with USB export; optional Modbus/Profinet connectivity; flexible and fixed inductors.

### EXTRATHERM 03 A/W

Output: up to 4 kW  
110 / 230V, 36 kg

Powerful mobile generator; dual-sensor heating; multi-segment temperature profiles; works with Flexible and Fixed Inductors; leader-follower multi-unit control; optional Modbus/Profinet; 3x smaller than predecessor.

### EXTRATHERM 10 A/W

Output: up to 44 kW  
400 – 480V, 72 kg

Most powerful EXTRATHERM generator; handles larger workpieces and higher heating capacities; dual-sensor operation; multi-unit synchronization; touchscreen with USB export; optional Modbus/Profinet connectivity.

### EXTRATHERM 20 A/W

Output: up to 32.6 kW  
400 – 480V, 72 kg

Compact mid-frequency (20–200 kHz) induction generator for production line integration; targeted heating of specific parts; air-cooled; lightweight design for inline assembly workflows.

	EXTRATHERM 01 A/W	EXTRATHERM 03 A/W	EXTRATHERM 10 A/W	EXTRATHERM 20 A/W
<b>CAPACITY</b>				
Max. workpiece weight	Depends on inductor	Depends on inductor	Depends on inductor	Depends on inductor
<b>ELECTRICAL (GENERATOR)</b>				
Power rating	2.3 kVA	3.7 kVA	12.8 / 14.4 kVA	16 – 19.2 kVA
Voltage	110 / 230 V	110 / 230 V	400 / 440 / 460 / 480 V	400 / 440 / 460 / 480 V
Current max.	10 A	15 / 16 A	30 / 32 A	40 A
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Air-cooled	Yes	Yes	Yes	Yes
Water-cooled	Optional	Optional	Optional	Yes
Generator weight	19 kg	36 kg	72 kg	72 kg
<b>OUTPUT GENERATOR</b>				
Active power	1 / 2 kW	2 / 4 kW	22 / 23.4 / 24 kW	27 / 30 / 31 / 32.6 kW
Output frequency	10–25 kHz	10–25 kHz	10–25 kHz	10–25 kHz
Tuning	Automatic	Automatic	Automatic	Automatic
Generator dimensions	250 x 215 x 400 mm	385 x 270 x 500 mm	880 x 350 x 712 mm	880 x 350 x 712 mm
<b>CONTROLS</b>				
Temperature (1 sensor)	0–240°C	0–240°C	0–240°C	0–240°C
Temperature (2 sensors)	0–240°C, ΔT 20–50°C	0–240°C, ΔT 20–50°C	0–240°C, ΔT 20–50°C	0–240°C, ΔT 20–50°C
Time control	0–99 min	0–99 min	0–99 min	0–99 min
Time / Temp Ramp	5–99 min / 5–240°C	5–99 min / 5–240°C	5–99 min / 5–240°C	5–99 min / 5–240°C
Temp-Time profile	Up to 8 segments	Up to 8 segments	Up to 8 segments	Up to 8 segments
Heating graph	Yes	Yes	Yes	Yes
Set power	10–100%	10–100%	10–100%	10–100%
<b>FEATURES</b>				
Sound signal	Buzzer	Buzzer	Buzzer	Buzzer
Temperature hold	Yes	Yes	Yes	Yes
Demagnetizing	< 2A/cm	< 2A/cm	< 2A/cm	< 2A/cm
Magnetic probe	1 piece	1 piece	1 piece	1 piece
Thermal safety guard	Yes	Yes	Yes	Yes
Touchscreen	Yes	Yes	Yes	Yes
Multi-unit operation	—	—	Leader-follower	Leader-follower
<b>CONNECTIVITY</b>				
Modbus RTU/TCP-IP	—	—	Optional	Optional
Profinet	—	—	Optional	Optional
<b>DIMENSIONS &amp; WEIGHT</b>				
Generator dimensions	250 x 215 x 400 mm	385 x 270 x 500 mm	880 x 350 x 712 mm	880 x 350 x 712 mm
Generator weight	19 kg	36 kg	72 kg	72 kg
<b>ACCESSORIES &amp; OPTIONS</b>				
Flexible inductor 15m	Optional	Optional	Optional	Optional
Flexible inductor 25m	Optional	Optional	Optional	Optional
Flexible inductor 35m	Optional	Optional	Optional	Optional
Fixed inductor	On request	On request	On request	On request

# PROTHERM SERIES

## General features

The PROTHERM series comprises fully custom-built induction heating systems, individually designed and manufactured for your specific workpiece, process and production environment. Each PROTHERM system is engineered and built in-house at our facility in Harderwijk, the Netherlands.

## Five product lines

The PROTHERM series is organized into five dedicated product lines, each targeting a specific type of application:

## Proven in the field

PROTHERM systems have been delivered to leading companies in mining, windpower, rolling stock, electric motor production and various other heavy industry markets worldwide. From crusher roll assembly to wind turbine main bearing installation, each system is built to perform.

## Engineered for your process

Every PROTHERM system includes custom coil design, automated handling options and full project management from concept to commissioning.



## PRODUCT LINES

## WORKPIECE CAPABILITY

## APPLICATION DESCRIPTION

### U-LINE

Up to 100.000 kg

Large induction heating solution for heavy crusher rolls, typically used in the mining world.

### S-LINE

Up to 5000 kg  
Custom dimensions

Sliding yoke systems for flexible workpiece loading. Horizontal yoke slides aside for fast loading/unloading cycles.

### H-LINE

Up to 5000 kg  
Custom dimensions

Induction heater with a tilted U-core for easy handling of the parts, typically used in production areas. Possibility of a lifting device for handling the yoke.

### STATOR HOUSING-LINE

DIN 56 to 355

Dedicated heaters for electric motor stator housings. Designed for production-line shrink-fit assembly of stator cores.

### ROTOR-LINE

Dimensions upon request

Dedicated heaters for electric motor rotors. Designed for production-line shrink-fit assembly of rotors.

# PROTHERM U-LINE

This induction heating solution is renowned in the global mining space! By introducing this solution to the market in the early 2000's, TM has reimagined how large mining operators, at remote sites, perform maintenance on large crusher rolls of up to 100.000 kg.

The U-LINE is designed to heat crusher rolls to ~200°C right before assembly and guarantees a tension-free heating process, to avoid any damage or structural anomalies. The U-LINE is available in various dimensions and has proven to be robust and reliable; some of the early models have been in operation for 20+ years.

- Heavy-duty heating for crusher rolls up to 100.000 kg
- Tension-free process avoids structural damage
- Voltage – Frequency: 380 to 575 V – 50 or 60 Hz
- Target temperature: 160°C (240°C max)
- Proven reliability: 20+ years of field service
- Example: PROTHERM U-2100 — max 75 tonnes, Ø 1000 x 2100 mm



# PROTHERM S-LINE

The PROTHERM S-LINE has a sliding yoke giving maximum flexibility when large parts need to be lifted on the heater. It's an intuitive and innovative design, driving efficiency across maintenance and production facilities around the world.

The S-LINE is widely used in Paper & Steel Mills and the Energy space and is available in various shapes and sizes. For parts with a wide inner diameter, e.g. bearings, rings and housings, we offer a custom coil to ensure even heating of the workpiece.

- Sliding yoke for maximum flexibility
- Custom coil option for wide inner diameters
- Voltage – Frequency: 380 to 575 V – 50 or 60 Hz
- Compact and fit for continuous use
- Used in Paper & Steel Mills and Energy
- PROTHERM S-C600 — max 5000 kg, Ø 800 mm coil



# PROTHERM H-LINE

The PROTHERM H-LINE is designed with a tilted U-core making it easy to mount the part on the heater. The H-LINE offers real flexibility and can take on any dimension and can be delivered on a trolley and/or with an integrated hoist for easy handling of the yoke.

You can find the H-LINE in various production facilities of global (renewable) Energy and industrial companies. The H-LINE is specifically designed to heat compact and tall parts.

- Tilted U-core for easy mount/dismount
- Available on trolley or with hoist
- Designed for compact and tall parts
- Proven in renewable energy production
- Voltage – Frequency: 380 to 575 V – 50 or 60 Hz
- Example: PROTHERM H-900 — max 800 kg, Ø 900 mm height



# STATOR HOUSING-LINE

It is common knowledge that stator house heating is the most effective method during the production of electric motors. This eliminates the damage done with cold pressing. Cold pressing fans out the stator's laminations which makes the electric motor noisier and less efficient. The PROTHERM STATOR HOUSING-LINE is a concept we've been refining for over 30 years, and you can find one or

more of our STATOR HOUSING-LINE heaters in operation across leading global Electric Motor producers. It's a low-frequency induction heating solution, which guarantees an even and tension-free heating cycle. The heater is designed for continuous operation and can take on a wide range of different housing sizes without conversion. Its small footprint (1x1,5m), allows for easy integration.

- Multiple housing sizes without conversion
- Eliminates cold pressing damage
- Low-frequency for even, tension-free heating
- 20+ years of proven refinement
- Voltage – Frequency: 380 to 575 V – 50 or 60 Hz
- Example: PROTHERM Stator 71-132 — DIN 71 to 132







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