

7

**INSIGHTS TO
MAKE THE
RIGHT CHOICE**

**KANTHAL®
SIMULATION
SERVICES**

KANTHAL®

Part of Sandvik Group



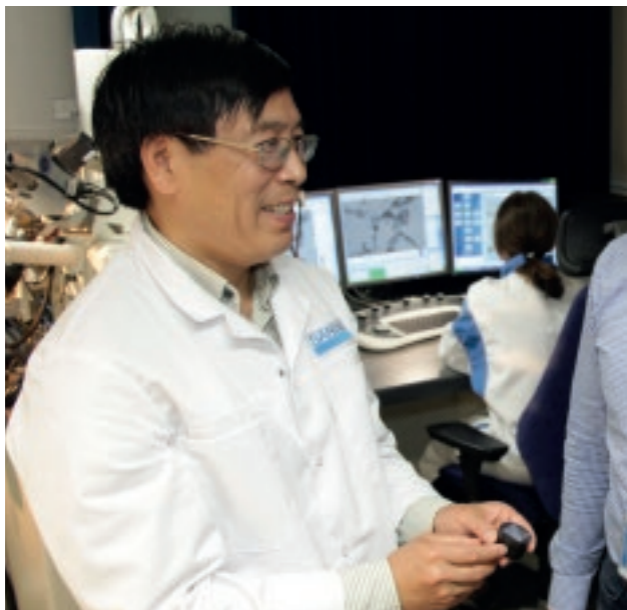
LET US PREDICT THE FUTURE!

Visit www.kanthal.com/services to read more.
Send your request online to get in contact with
our Consultancy Services

IF ONLY I HAD A CRYSTAL BALL...!

Usually it's impossible to predict the future with any certainty, but with our thermal simulation services we can help get you to your optimum design.

We test and evaluate different technical solutions without needing an initial physical investment, allowing our customers to predict the future with confidence and minimize prototyping costs. Our focus is on reducing prototyping costs, timescale and the risk of mistakes, keeping our customers safety at the forefront of our minds. You as a customer will now have the opportunity to imagine multiple solutions in a short period of time.



TALK TO A SIMULATION SPECIALIST!

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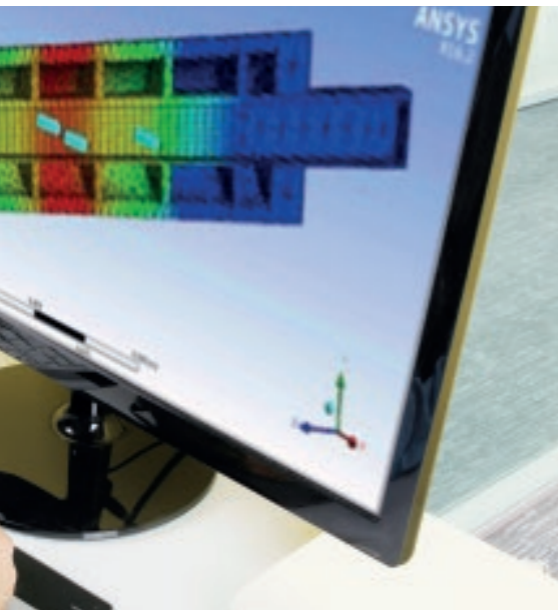
SO HOW CAN YOU MAKE SURE THAT YOU WILL MAKE THE RIGHT DECISION?

Our answer: thermal simulation. By simulating the requirements of your heating process you arm yourself with the best pre-investment decision tool available. That's where we come in: Industrial heating solutions are our specialty and we can provide all the expertise you need. Upgrading an existing heating system or furnace, or designing a new system altogether, can be a challenging task in any industrial process. There's simply no margin for error. Accurate temperatures, uniform heating and maximum safety are all key considerations.



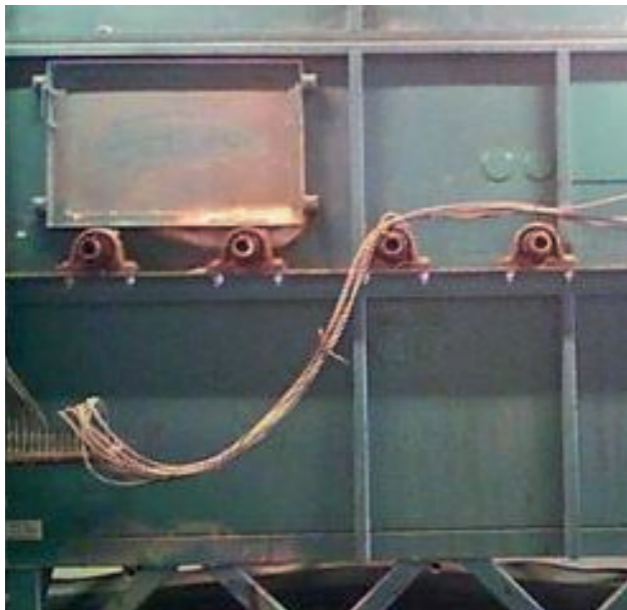
UTILIZE OUR APPLICATION KNOW-HOW!

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REAL LIFE SCENARIO PLANNING

The first step to finding out if a new heating or furnace system will live up to your expectations is to contact one of our thermal simulation specialists. Our specialist will help you to determine all of the most important parameters – type of existing system, current performance, energy consumption, proposed alternatives, potential gains, and so on. We can help you design a bespoke system for your process and then simulate the concept under real life conditions. This will provide you with all the data you need in order to make a well-informed purchase decision.



WE CAN FIND YOUR PROCESS IMPROVEMENTS!

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REAL PARTNERSHIP

We have been helping customers to meet their challenges for over 85 years, and through our partnerships, we continue to push the boundaries of electrical heating technology.

We use in house industry specific algorithms, which are exclusive to Kanthal®, and independently verify the results. The result: Our customers get specific and accurate data out from our simulation at the fraction of the cost of a physical design cycle.



SIMULATION FOR MULTIPLE REASONS!

**OUR THERMAL SIMULATION SERVICE
IS INVALUABLE IF YOU ARE:**

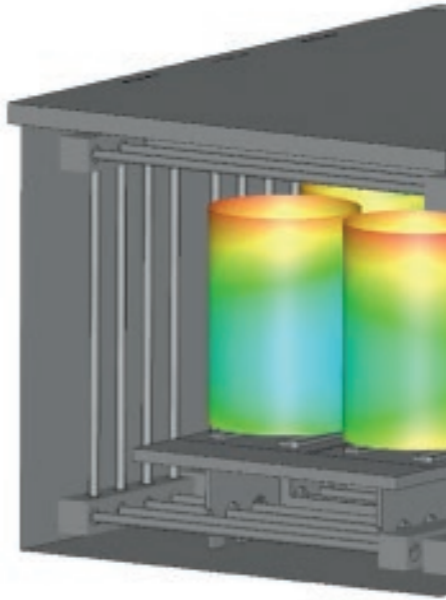
- Planning to invest in a new heating solution
- A furnace manufacturer who wants to optimize the furnace design
- A user of furnaces looking to upgrade or increase the capabilities of your furnace



Feeder forehearth

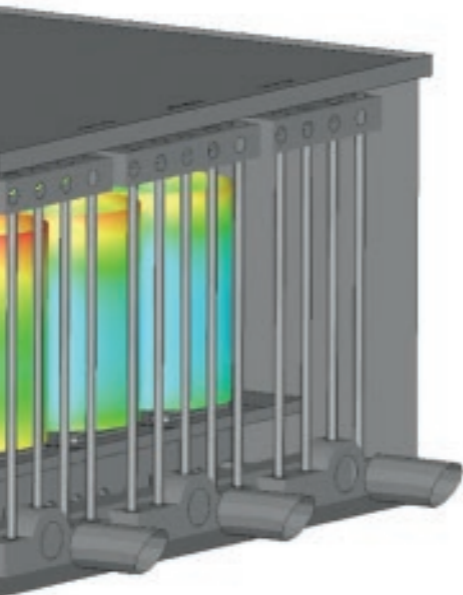
This means that if you are planning to invest in electric ladle heating in a steel manufacturing or aluminium casting plant, for example, our service will help you make the right investment decision. If, on the other hand, you are a furnace manufacturer, it will enhance your ability to design and build complex furnace systems and reduce costs and time in prototyping. And if you are a furnace user, it will improve your knowledge of how your system can be optimized for maximum efficiency and productivity.

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LET US DEVELOP THE HEATING SOLUTION YOU NEED!

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FINDING THE PERFECT MATCH

The purpose of simulating the heating requirements of your operation is to eliminate risk before investing in a new heating system.

Beyond molten metal handling, we offer simulations for a range of applications including glass manufacturing, and heat treatment in the form of annealing, carburizing, galvanizing, sintering and hardening.

More often than not, your criteria will be unique. Whether you are looking for an electric or conventional fuel-driven heating system or furnace, our simulation service helps you find the perfect match.



**CREATE YOUR
SUSTAINABLE
FUTURE.
GO ELECTRIC
WITH KANTHAL®!**

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The design, build and implementation of high temperature heating equipment is a very costly process. Our thermal simulation will reduce design time and streamline the design cycle.

The result is a solution that is optimal in terms of your process, efficiency, productivity, cost and energy consumption.

THIS ALLOWS OUR CUSTOMERS TO REDUCE BOTH THEIR OPERATING COSTS AND THEIR CARBON FOOTPRINT.

THERMAL SIMULATION THE WAY TO GO!

WHETHER YOU ARE UPGRADING OR BUYING NEW, IT WILL REQUIRE A MAJOR INVESTMENT DECISION. OUR THERMAL SIMULATION SERVICE IS THE SMARTEST WAY TO MAKE SURE IT WILL BE ONE OF THE BEST DECISIONS YOU'LL EVER MAKE.

7 Insights are key to making the right choice.

Thermal Simulation Services will help you to:

- Understand how a specific heating solution will heat your charge.
- Visualize temperature distribution.
- Provide qualified help with order specification and correct terminology.
- Evaluate bespoke design requirements.
- Save time and money involved in prototyping.
- Calculate the correct power requirement for your process.
- Understand how changes to furnace design can improve your process and productivity.