

THERMAL SYSTEMS

review

Customer magazine, issue 02, 2024

06

Partnership with Knoll Feinmechanik
for turnkey solutions in the field of
medical technology

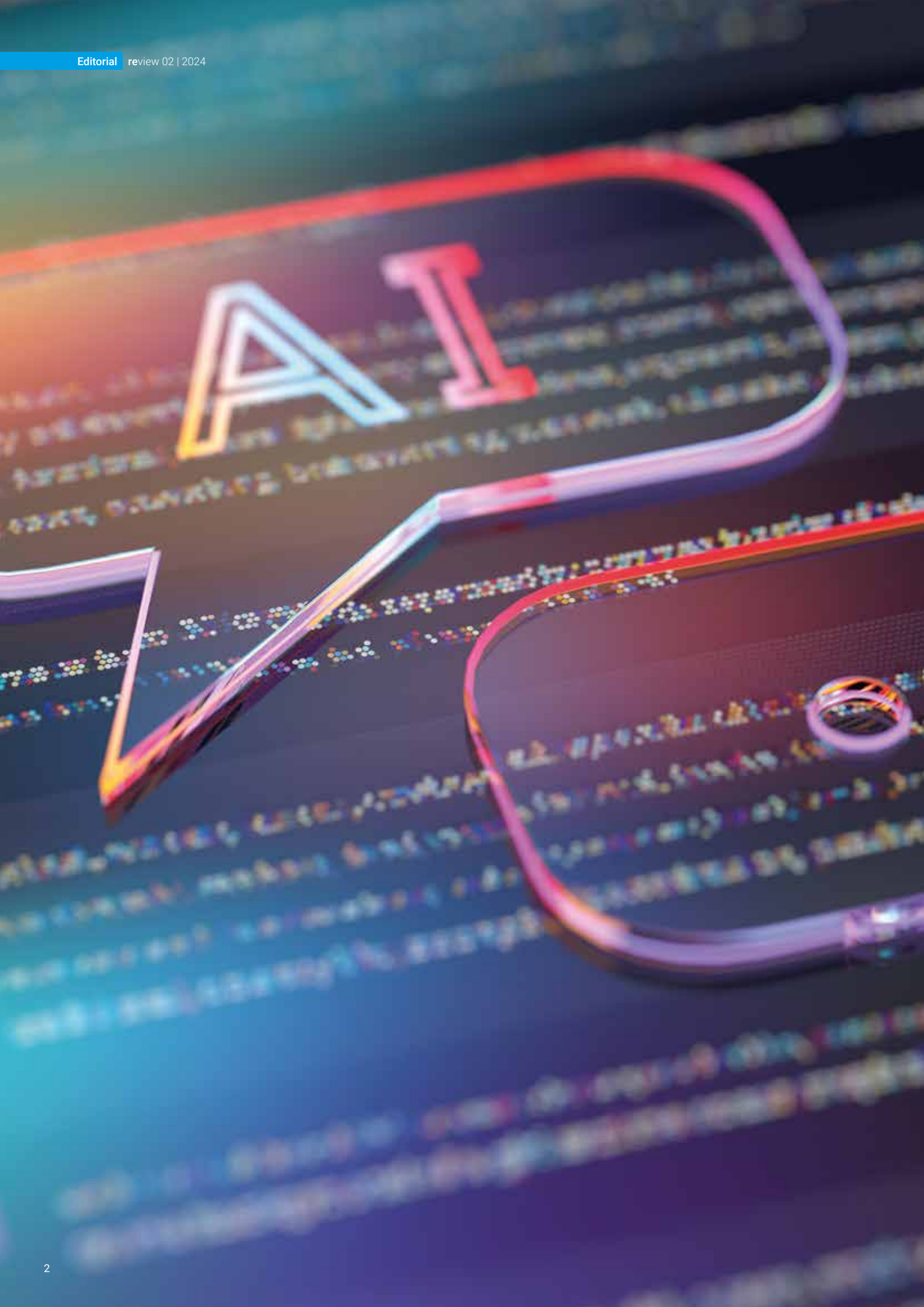
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Relocation of the Rehm Academy
Modern training rooms and an
expanded programme

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#opentochange
Technology Days at Rehm Thermal
Systems – a review





Dear readers,

Our Technology Days have always been a platform for discussing the latest developments, trends and best practices in electronics manufacturing. This year, the focus was particularly on automation, digitalisation and the use of AI in production. It was great to see how many of you took the opportunity to discuss challenges and opportunities with us and to develop a vision for the industry of the future.

Looking ahead to 2025, however, it can be said that the outlook is challenging. Many companies are struggling with declining sales, low capacity utilisation and further challenges such as a shortage of skilled workers and increasing price pressure.

Situations like these show how important it is to stick together, drive innovation and make targeted investments in future-proof technologies.



A good example of this is our collaboration with the Ernst Knoll Feinmechanik GmbH in the field of medical technology. Together, we are working on turnkey solutions for the bonding and thermal forming of flexible parts such as tubes, catheters and foils – a partnership that shows how synergies can be utilised to remain successful even in challenging times.

We are also focussing on further training: in order to offer you an even wider range of training courses, the Rehm Academy moved into a new, modern building at our headquarters in Blaubeuren in August. We can now offer you additional training opportunities there, particularly in the area of software.

I look forward to tackling these challenges together with you. Let's actively shape the future of the industry – and make the most of it!

A handwritten signature in blue ink that reads "Rehm J." in a cursive script.

Johannes Rehm
Managing Director

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Rehm is delighted about the new trainees – the 2024 trainee trip

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TWO EXPERTS. ONE SOLUTION.

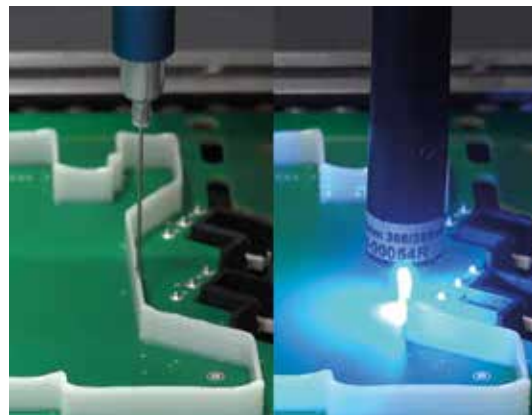
Partnership made in Baden-Württemberg

Rehm Thermal Systems and Ernst Knoll Feinmechanik, two specialists from Baden-Württemberg, want to utilize their synergies in the field of medical technology and are planning turnkey solutions for bonding and thermal forming of flexible parts such as tubes, catheters, cables or foils.

Decades of experience, shared values and a common goal are the basis for the partnership between Rehm and Knoll.

In addition to reflow soldering systems and individual solutions, Rehm specializes in drying systems as well as coating and dispensing systems: the RDS drying systems enable controlled heating and cooling in a scalable system. The systems in the Protecto Series are impressive for coating, bonding, sealing and fixing thanks to their high dosing accuracy, flexibility thanks to various applicators as well as intuitive operation and programming.

Knoll specializes in individual automation solutions for the handling and assembly of flexible parts, such as medical tubing sets, where maximum precision is required: the Knoll Handling-Head, the in-house developed and produced gripper system, enables sensitive and reproducible handling of flexible parts.



Dispensing is easy with the Protecto systems. The adhesive can be cured directly with a UV spot if necessary.

This strategic partnership guarantees the customer reliable and high-quality turnkey solutions for the thermal treatment of hoses from a single source – for greater process reliability, reduced cycle times and cost savings thanks to automation as well as seamless traceability and individual interface connection!







EXPERTISE AGAINST THE SKILLS SHORTAGE

New rooms, new opportunities: the Rehm Academy is expanding

The Rehm Academy programme includes various training opportunities on the technological background of the systems and their application. In order to be able to continuously expand the portfolio and to counteract long waiting times due to the high demand, Rehm Thermal Systems has decided to move the Rehm Academy to a larger adjoining building with more modern equipment at its headquarters in Blaubeuren: new software training courses have been offered since September 2024.

Technological change has been progressing ever more rapidly for years and is having a major impact on the world of work. Advances in the areas of digitalization and Artificial Intelligence (AI) are creating new opportunities: for example, work processes can be automated as well as accelerated and new innovations can be implemented. However, these

changes also bring new challenges: many companies are finding it increasingly difficult to find suitable skilled workers with the necessary skills and knowledge to meet the demands of modern industry. The consequences of this shortage of skilled labour are manifold: production delays, an additional workload for the existing workforce, financial losses and reduced competitiveness.

In this context, training and further education programmes are becoming increasingly important. Rehm Thermal Systems recognized the importance of lifelong learning at an early stage and actively invested in the development of its own employees and customer employees in order to successfully meet the challenges of the future.



From left to right: Annalena Weiß (Organisational Manager, Rehm Academy), Louis Striebel (Trainer, Protecto Series and RDS Systems), Andreas Weber (Trainer, Software), Filip Ott (Trainer, Condenso Series and Protecto Series), Walter Seng (Trainer, Vision Series)

The “new” Rehm Academy

In order to be able to further expand the portfolio in the coming years and counteract long waiting times, the company has decided to move the Rehm Academy to a larger adjoining building. With over 800 m² spread over two floors, the new premises at the company headquarters in Blaubeuren-Seissen offer optimal conditions for practical learning: five training rooms with modern equipment and two machine rooms with different Rehm systems. The offer includes user trainings as well as course solutions in the area of software.

User trainings – practical and application-orientated

The user trainings teach both theoretical content from the field of process technology and practical skills relating to operation and maintenance. The trainers always focus on the individual process requirements and work scenarios. This guarantees that the customer receives optimum support for the specific requirements of production. Customized user trainings are also available on request at the customer’s premises.

The Rehm Academy currently offers one- or two-day user trainings for various systems (Vision Series [with vacuum option], Condensio Series, Protecto Series and RDS Drying Systems). The training courses can be booked for users in different roles.



1. The spacious training rooms at the Rehm Academy are equipped with the latest technology and thus guarantee a modern standard.
2. The theory of the user trainings can be tested directly in practice on the Rehm systems. In this way, newly acquired knowledge can be consolidated.

Expertise for modern industry

Industrial companies are faced with the challenge of optimizing their processes, increasing efficiency and at the same time reacting flexibly to market changes. Software solutions play a decisive role here. They not only enable the automation of processes, but also provide valuable insights through data analyses and support decision-making at all levels.

Due to the expansion of the Rehm Academy in terms of space and personnel, new software training courses can be offered on the following topics:

ViCON

With ViCON, Rehm Thermal Systems has designed and realized software that meets all the requirements of modern, networked and, above all, future-oriented electronics production: the ViCON software impresses with a variety of analysis tools, the highest quality and the ability to access the software with different devices. The software is also intuitive to use thanks to the use of touch elements and gestures. All messages, commands and parameters are visible in the main mask with machine view.

The training offered looks at the topic of disaster recovery and examines in detail backup solutions, system recovery after replacing a defective SSD, importing an image backup as well as importing and exporting a ViCON backup.

Hermes

Efficiency, simplicity, adaptation to demand and networking are the keywords that characterize today's industry. In a smart factory, it is essential that the entire production process is networked and that all process data and assembly data can be accessed at any time: "the Hermes Standard" is the successor to the SMEMA interface. It ensures that important assembly information is reliably transmitted from machine to machine (M2M) and to higher-level systems – regardless of the manufacturer of the systems in an SMT line.

The training course of the Rehm Academy deals with the basics, functionality, operation and advantages of this interface as well as the variants and options.

MES with ROI or CFX

In the age of digitalization, manufacturing companies are increasingly relying on process-oriented production management systems (MES). These systems continuously collect all operating data along the material flow for an individual production line and make it available to the higher-level enterprise resource planning system (ERP) via an interface (ROI/CFX).

This course covers the basics and importance of MES systems and the ROI/CFX standard in modern manufacturing. It also looks at how MES systems interact and exchange data with other Industry 4.0 components, including ROI/CFX. And it deals with methods for collecting, processing and analyzing production data through MES, transmission via ROI/CFX, the use of MES and ROI/CFX to optimize manufacturing processes and increase production efficiency and the use of MES and ROI/CFX to improve product quality and compliance with industry standards.



Thanks to its clarity and ease of use, the ViCON software provides optimum guidance through the production process.



ProMetrics & Solderstar

With ProMetrics, Rehm Thermal Systems has developed an instrument for monitoring thermal profiles during soldering. It checks how well the previously created profile corresponds to the required, predefined specifications. Both software and hardware components are required to use ProMetrics effectively: the Solderstar software with associated licence dongle is used to record the data. A Solderstar measurement data logger is used to record temperatures from a reference board to check the process stability of the system. The Rehm system itself is equipped with monitors to record the temperatures. In addition, the temperatures in the heating zones are recorded using sensors.

The training offered by the Rehm Academy deals with ProMetrics in a first step: the basics of process monitoring, the installation and removal of the hardware, the creation of an envelope curve and the evaluation of temperature profiles are examined in more detail. In a second step, the software and hardware components of Solderstar are analyzed in more detail: the operation of the software and hardware, the creation of a soldering process and the temperature profile are discussed.

Further information

Are you interested in one of our training opportunities or do you have further questions?

Please feel free to contact Ms. Annalena Weiß, Organisational Manager of Rehm Academy, via e-mail.

We look forward to welcoming you soon to the Rehm Academy!

Contact & registration

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FLYING HIGH TOGETHER START OF TRAINING



This year's trainee excursion

As every year, the trainee outing at Rehm Thermal Systems was once again on the programme in 2024. The trainees from all training years and three chaperones travelled by bus first to Sinsheim to the KLIMA ARENA and then to Filderstadt to the Sprungbude.

This year's trainee excursion began for our trainees on 30 October at 07:15 in front of the main building of Rehm Thermal Systems in Blaubeuren. In glorious autumn weather and high spirits, they boarded the bus. The destination: the KLIMA ARENA in Sinsheim!





Once a year – usually right at the start of the new training year – we organise a joint excursion for our trainees and students. The programme varies from year to year.

Once there, they took part in an interesting, guided tour through the exhibition areas of housing and energy, mobility, lifestyle and consumption, agriculture and forestry as well as nature as a habitat and learnt about the current state of climate change science and what everyone can do in a fun and interactive way.

One highlight: the so-called “glacier”. In the small 360-degree cinema, disguised as a huge block of ice, they were greeted by KIM, the climate information module. The little black and white robot took them on a journey into the future and flew with our trainees through the Amazon region – an impressive visit, but also thought-provoking!

Over lunch together, the trainees took the opportunity to exchange ideas in a relaxed atmosphere and reflect on what they had already experienced.

In the afternoon, they travelled by bus to Filderstadt to the world’s largest trampoline hall. From wall run, horizontal ladders and ring variations to cheese boards and trapezes – the Ninja Course offered numerous opportunities to test your own limits and surpass yourself.

The 2024 trainee outing was a complete success and a great opportunity to get to know each other better. A huge thank you to everyone who made this day an unforgettable experience. We are already looking forward to the next adventures together!



Discover your career opportunities!

In 2025, we will once again be offering exciting apprenticeships in various areas. Take the first step towards your future and start your career at Rehm Thermal Systems, a regionally anchored yet globally active company. You can find more information about apprenticeships on our career portal:

<https://www.rehm-group.com/en/career/apprenticeship.html>

THE REHM TECHNOLOGY DAYS FUTURE MEETS TECHNOLOGY

#opentochange – TOGETHER TOWARDS TOMORROW



Traditionally, the Rehm Technology Days offer a valuable opportunity for knowledge exchange, networking and discussion. Once again this year, numerous customers, partner companies, press representatives and employees from the worldwide locations met at the company headquarters in Blaubeuren-Seissen. Under the motto “#opentochange”, participants were treated to user-oriented workshops and live demonstrations as well as informative presentations on a wide range of topics that are crucial for success in modern industry – from the introduction of AI in quality control to the implementation of cyber security measures in production.

The Technology Days have always served as a platform for exchanging information on the latest developments, trends and best practices in electronics manufacturing: this year, all visitors were invited to discuss the challenges and opportunities associated with automation, digitalization and the use

of AI in production as well as to find out how the future of the industry can be shaped together – an offer that many were very happy to take up.

Strong for the future – lectures and keynotes

The ten lectures given by in-house and invited experts on 11 and 12 September dealt with the current challenges in the electronics industry. On the first day of the event, Lisa Leonhardt and Michael Hanke from Rehm Thermal Systems spoke about the conversion of production processes from batch processes to continuous line production, Dr Patrick Bleiziffer from maXerial about industrial X-ray analytics and the use of AI to analyse X-ray data, Denny Bartels from Tonfunk GmbH Ermsleben about sustainable coatings as well as Rainer Trometer and Markus Mittermair on the future role of AI at Rehm Thermal Systems.

On Thursday, Dr Paul Wild from Rehm Thermal Systems gave a presentation on the potential applications of Rehm products in future industries such as medical technology, semiconductor production and mechanical engineering, Dr Sindy Mosch from the Fraunhofer Institute for Ceramic Technologies and Systems IKTS on the development of pastes for high-temperature electrolysis and fuel cells, Dietmar Birgel from Endress+Hauser on experiences with the processing of low-melting solder and Ingo Hild from ams OSRAM on practical measures towards the smart factory. The presentations by the two keynote speakers were a highlight: on 11 September, Professor Dr Dennis-Kenji Kipker from the cyberintelligence.institute spoke about the importance of cyber security in production. He illustrated that German companies have been increasingly affected by espionage, sabotage and data theft in recent years, both digital and analogue, and emphasized the vulnerability of the supply chain. Following his presentation, he addressed the European Union's updated legislation on cyber security (NIS 2) for holistic economic protection and revealed to those present the need to deal more intensively with cyber security measures within their companies.

Professor Dr Isabell Welpé from the Technical University of Munich, holder of the Chair of Strategy and Organization as well as Scientific Director of the Bavarian State Institute for Higher Education Research and Planning (IHF), spoke on 12 September about the use of AI in the world of work. In her presentation, she drew attention to studies on increasing productivity using AI tools in companies and showed specific AI applications in the world of work as well as in everyday life and their downsides. She also demonstrated the further developments in AI-supported technologies and emphasized that although AI tools can support an employee, e.g. with translations, they lack real creativity and innovation.

A total of 147 visitors as well as numerous employees of Rehm Thermal Systems listened to the lectures from practice and science and used the breaks for the subsequent dialogue. Simultaneous interpreters translated the presentations for the audience from abroad.

Sustainable processes – workshops & live demonstrations

The four workshops and numerous live demonstrations that took place throughout the building on both days also promoted direct dialogue and offered the opportunity to see sustainable processes up close. Interpreting services were also offered to foreign-language visitors.



A highlight: the keynote speech by Prof Dr Isabell Welpé on the use of AI in the world of work

The first workshop focused on the production of fuel cells: to begin with, Frank Häussler from the Centre for Solar Energy and Hydrogen Research Baden-Württemberg (ZSW) gave an overview of the structure and function of fuel cells. Matthias Drews from EKRA Automatisierungssysteme GmbH explained how the seal is applied to bipolar plates using the XH4 MultiLane screen printer and Dr Karin Hergert demonstrated the curing process in the Stack Dryer, a new system from Rehm Thermal Systems for drying membranes and bipolar plates in magazines.

In the second workshop, Gianfranco Sinistra from Rehm Thermal Systems gave an overview of possible line concepts with various degrees of automation in the areas of coating and dispensing. One highlight was the demonstration of a fully automated line with a coating and dispensing system and the RDS UV dryer from Rehm Thermal Systems as well as a transport robot for magazines and other handling systems from the ASYS Group. Finally, Markus Scheid from SIT Solutions discussed the possibilities of horizontal and vertical networking.

In the third workshop, Nico Fahrner and Julian Schempp dealt with the basics of soldering, the possible applications, the various soldering processes and the use of vacuum in

soldering technology and used Rehm systems to demonstrate convection, vapour phase and contact soldering with and without vacuum. Finally, Comet Yxlon GmbH demonstrated an X-ray system for inspecting solder joints.

In the fourth workshop, Dr Paul Wild gave an overview of the system- and process-specific possibilities of the VisionXP+ from Rehm Thermal Systems for reducing nitrogen and energy consumption and drew attention to the influence of temperature profiling. Markus Mittermair, Head of Software Development at Rehm Thermal Systems, referred to the recording of consumption in the system software and the monitoring of the temperature soldering profile with the Rehm ProMetrics software and equipment from Solderstar.

Numerous info points on various products, an informative exhibition by partner companies, guided tours of the company and the new premises of the Rehm Academy as well as a visit by the Aixtreme Racing team from FH Aachen rounded off the extensive programme of the Technology Days 2024.



USE OF NUMERICAL SIMULATION METHODS

for the development of thermal systems and coating equipment

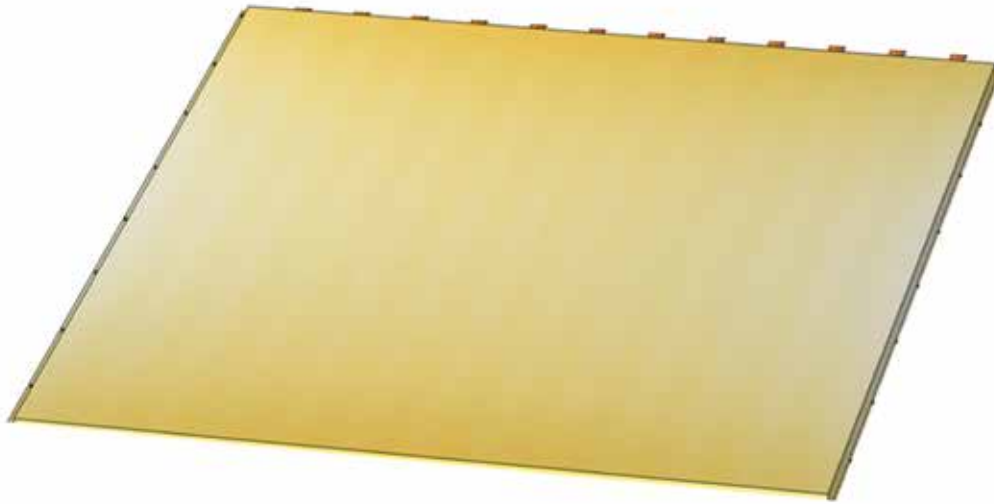


Figure 1: Temperature distribution on the Nexus heating plate

The use of numerical methods in order to support the development of systems and processes has now become widespread. The implementation of these methods helps to minimize development costs by reducing the number of required prototypes thanks to a pre-selection process. In some cases, the use of simulations can reduce the amount of time required for tests involving time-consuming measurements. Furthermore, other quantities which can't be measured in actual systems, or only with a great deal of effort, can be acquired through the use of simulations, so that conclusions can be drawn for further development. This is the case, for example, with regard to the visualization of the flow conditions in convection soldering systems. The Rehm Thermal Systems GmbH uses the COMSOL Multiphysics® program for the simulation of flow and heat transfer. This is especially well-suited for linking various physical problems.

Case study: cooling and heating plate for Nexus

The heat-up process of a heating plate in the Nexus contact soldering system serves as an example for the use of numerical simulations. Each simulation begins with the definition of the geometric space to be calculated and the corresponding general conditions. The geometric space should include all relevant areas of the component to be analyzed, but without unnecessary details as these require large amounts of

computing time. Engineering expertise is required in order to determine which details are relevant for the problem at hand. At the boundaries of the respective geometry (e.g. external walls or internal phase boundaries), conditions must be specified as to how the quantity to be calculated (e.g. temperature, flow rate, pressure) progresses, so that the calculation can be continued from there into the interior of the defined area. The more accurately the general conditions reflect reality, the more precisely the results correlate with the actual world. However, this is precisely what makes it difficult to use numerical simulations for the development of real systems. In many cases, the actual conditions are not known to an adequate extent. If this is the case, assumptions have to be made on the basis of measurements or other available findings, which cannot describe reality with absolute accuracy. Nevertheless, simulation results based on these assumptions are very useful for comparing different approaches to a problem.

The calculation area is meshed according to the definition of the general conditions. This is important because the solution to the problem is not computed as a continuous function throughout the entire area, but rather discretely at specific points that the mesh dictates. The finer the mesh, the better the resolution of the area and the more accurate the results. If, on the other hand, the mesh is very coarse, relevant parts

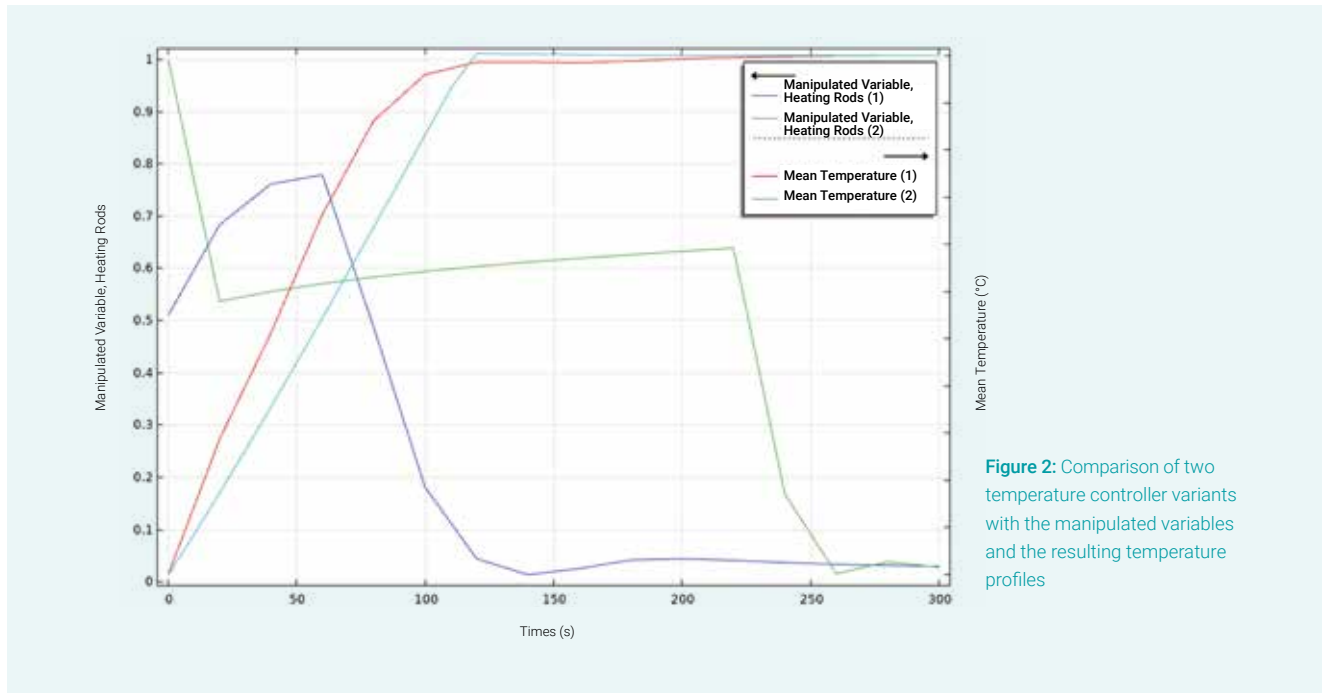


Figure 2: Comparison of two temperature controller variants with the manipulated variables and the resulting temperature profiles

of the geometry cannot be represented and the results are accordingly distorted. However, computing time and required memory increase with the number of nodes within the mesh. Where the simulation of large, complex systems is concerned, the memory capacity of the utilized computing systems may be exceeded as a result.

In the case of the heat-up process for the heating plate, only the heating plate with the cooling pipes is defined as the calculation space (figure 1). Heat flow with free convection and radiation models was specified on the outer surfaces of the heating plate. Controllable heat flows were specified for the drill holes in which the heating cartridges are located. These are controlled via the temperatures which prevail at the

positions at which the measuring sensors are attached in the actual system, using defined control parameters, so that a specific mean heating gradient and, subsequently, a specified temperature are achieved.

Figure 2 shows the comparison of two temperature controller variants with the manipulated variables and the resulting temperature profiles. This makes it possible to evaluate the influence of different controller parameters. Beyond this, temperature distribution within the plate can be determined at any time. In this way, insights can be gained regarding distribution homogeneity. Stress states which indicate effects that result in a shortened service-life can be calculated by extending the model to include the physics of structural mechanics. When interpreting the results, it must be noted that heat dissipation via the brackets, cooling pipes etc. is not included, because these were not defined as part of the system.

Case study: cleaning station for Protecto

A further application for the use of simulations in the development process involves the investigation of flow dynamics in a cleaning station for nozzles. The objective was to examine the influence of the geometry of the borehole for the intake of ambient air on the flow at the nozzle to be cleaned. It can be assumed that high velocity in proximity to the surface of the nozzle will lead to good cleaning results because contaminants are thus swept away. The analysis of different borehole geometries with varying position, orientation and number of boreholes made it possible to identify the variant with the best velocity distribution. The number of prototypes required for testing was reduced as a result. Figure 3 shows a comparison of the velocity fields in the cleaning station with different borehole positions.

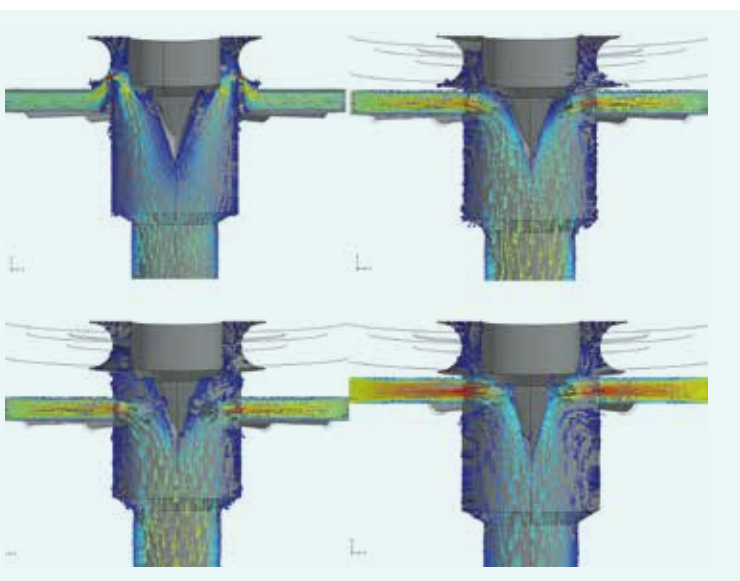


Figure 3: Velocity distribution for various borehole geometries in the cleaning station

Figure 4: Heat exchanger with flow lines and color coding by temperature

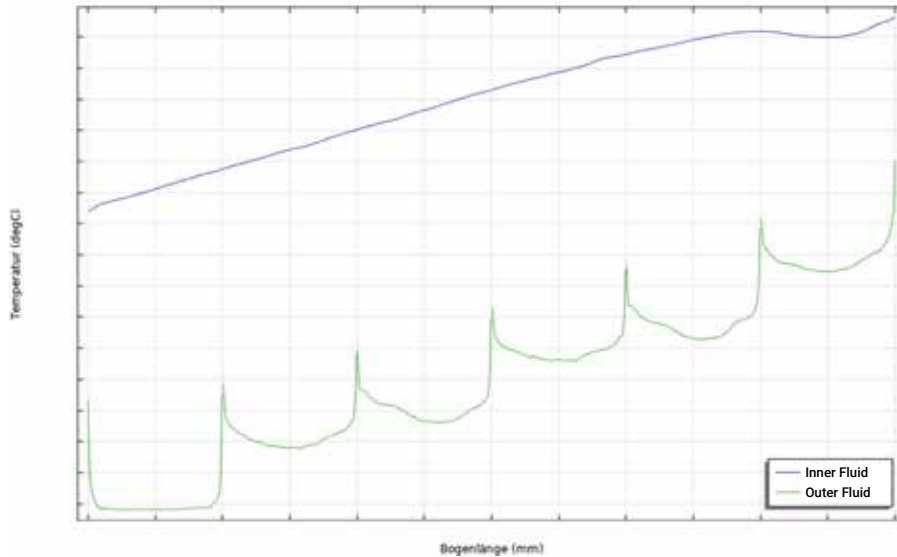
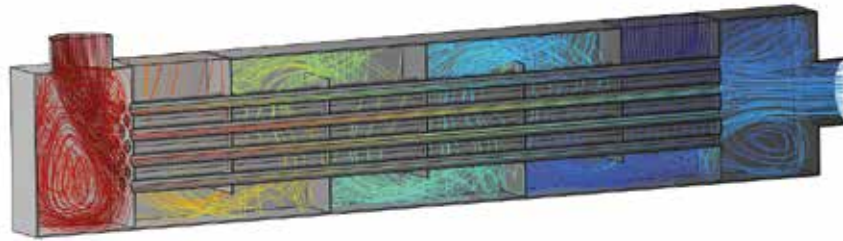


Figure 5: Temperature profiles of the inner and outer fluids over the length of the heat exchanger

Case study: heat recovery in convection soldering systems (VXP+)

Linking heat transfer and flow makes it possible to optimize the design of heat exchangers in terms of efficiency and costs. For example, CAD drawings can be quickly adapted to vary the number and length of tubes in a shell-and-tube heat exchanger. Moreover, various materials, volumetric flows and inlet temperatures can be analyzed without the need to fabricate physical prototypes. This can reduce testing costs and time, and significantly accelerate the development process. Figure 4 shows a representative example of flow inside a shell-and-tube heat exchanger as a function of temperature.

As shown in figure 5, the efficiency of the heat exchanger can be evaluated on the basis of the calculated temperature profile. Boundary effects are also taken into account when considering heat transfer within the heat exchanger's materials. In figure 5, the green line shows temperature peaks in the outer fluid caused by the fluid flowing over the hotter separator plates. Introducing the "thin layer" condition also makes it possible to simulate contamination, and thus to examine the performance of the heat exchanger at different times during

operation. CFD simulations can be used to identify further optimizations, e.g. with regard to pressure loss, size, connection positions etc.

Summary

These examples demonstrate how simulations support development work at the Rehm Thermal Systems GmbH. Simulations make it possible to reduce the number of prototypes and minimize required development time during the design process, provide assistance in designing controllers and offer explanations for flow phenomena that would be very difficult or impossible to measure. Furthermore, it's also possible to run simulations which can be used to create models of individual system components in order to supplement a digital twin with process models, for example. In the future, this can contribute to more detailed monitoring of products and production processes, and thus help to advance digitalization in production.



INTERVIEW

In conversation with Jennifer Frick

“Chemistry and physics are not natural, but objects of human thought.”

(Max Thürkau)

After completing her studies in chemical engineering and process engineering, Jennifer Frick joined Rehm Thermal Systems as a development engineer.

There she deals with flow simulations and heat transfer calculations.



Can you tell us something about your career and how did you come to Rehm Thermal Systems?

Jennifer Frick: I studied chemical engineering and process engineering at the Karlsruhe Institute of Technology (KIT). During my Master’s degree, I worked on heat transfer and flow simulations, among other things, which I particularly enjoyed. That’s why I looked for a job in this field after graduating. And since Rehm Thermal Systems advertised such a position, I applied and ... laughs ... now I’m here.

What is your current position at Rehm Thermal Systems and what is your area of responsibility?

J. F.: I am a development engineer specialising in the areas of flow simulations and heat transfer calculations. However, I not only calculate, but also validate calculations. To do this, I carry out tests on the systems. I am also responsible for data analysis and modelling in the development department.

Was there a special moment for you when you decided to go into research and development, or were you already sure as a child that you wanted to become an engineer?

J. F.: At school, I found maths and science subjects very exciting. That’s why, after leaving school, I did a preparatory year with internships, lectures and workshops in the field of technology and quickly realised that a technical degree



A temperature data logger can be used to monitor the temperatures of various applications in real time.

course was right for me. But I only realised that I wanted to work specifically in research and development during my studies.

What do you like best about your work at Rehm Thermal Systems?

J. F.: What I really like is the working atmosphere in my department. We are a good team that supports each other. This enables us to effectively drive forward the further development of our products together.

Can you tell us something about current projects of yours?

J. F.: I can say that I am currently carrying out various flow analyses in the process chamber. But the focus is also on further developments in residue management and optimising nitrogen consumption.

What do you think? How will digitalisation and the use of AI change your work in the research and development department?

J. F.: Digitalisation has already found its way into my area of work through the use of simulations and data analysis. I can imagine that machine learning will lead to faster results in the research and development department in the future. At least I hope so ... laughs! I would also like to see machine

learning being used to develop models for correlations that we are currently unable to recognise at first glance due to their complexity.

What is it like to be a woman in a male-dominated profession?

J. F.: I personally haven't had any bad experiences yet. But I also think that there has been and still is a general rethink. And the increasing proportion of women in STEM professions is certainly also making a positive contribution to the fact that more women are opting for a technical degree or an apprenticeship with a technical background.

Would you recommend a young girl to choose a typically male profession?

J. F.: I think that everyone should take up the profession that they enjoy, regardless of whether the profession is considered typical for the respective gender. It is certainly still a little difficult sometimes to be taken seriously in a gender-atypical profession and then to get ahead. But what I have learnt in my career so far is that it is important to show self-confidence, to show what you can do and what you know, and then you are definitely more likely to be taken seriously and can assert yourself.

WITH SUNSHINE AND GOOD MOOD



That was our summer party 2024

Once again this year, all employees of Rehm Thermal Systems and Rehm BlechTec celebrated the traditional summer party at the end of July: at the beginning, Managing Director Johannes Rehm, Head of Human Resources Joachim Erhard and some department heads gave an overview of the past months as well as an outlook for the second half of the year and expressed their special thanks to some long-standing employees.

Afterwards, everyone got together for lunch in the glorious sunshine. The selection was rich and delicious: from a colourful variety of salads, grilled vegetables and tender steaks to

salmon and the popular grilled sausages. Anyone who fancied something sweet could help themselves at the candy bar. The ice-cream wheel, the drinks station and the cocktail bar provided refreshments between games of football darts.

A special experience: a visit from the rescue dog team! The dogs and their trainers impressed the employees with their skills and earned a lot of applause.

A summer party that was an all-round success with bright sunshine, a great atmosphere and fantastic activities for everyone.



The weather and ambience were also perfect for this year's summer party. Everyone was able to enjoy a cosy celebration with their colleagues.

SAVE THE DATE

SHOWS & EVENTS 2025

Rehm is present at the most important venues in the electronics industry with interesting trade shows and events

Whether it's a trade fair, technology event, seminar, training or workshop – take advantage of the opportunity to get to know our system technology and receive advice from Rehm experts. If you are interested, you can find more information about the events at www.rehm-group.com.

DATE	EVENT
29. – 30.01.2025	Electronics on the Road , Hamburg, Germany
11. – 12.03.2025	Electronics on the Road , Düsseldorf, Germany
26. – 28.03.2025	productronica , Shanghai, China
02. – 06.04.2025	25. Elektroniktechnologie-Kolleg , Colonia St. Jordi, Spain
02. – 04.04.2025	SSPA , Korea
09.04.2025	EPP InnovationsFORUM , Leinfelden, Germany
29.04.2025	Innovationstag Medizintechnik , Stuttgart, Germany



Dates

Here you will find the current dates for trade fairs and events.

We look forward to welcoming you at one of our next events!



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Rehm Worldwide

As a leading manufacturer of innovative thermal system solutions, we have customers on every continent. With our own locations in Europe, the Americas and Asia as well as agencies in 24 countries we are in position to serve the international markets quickly and to offer outstanding on-site service – worldwide and round the clock!