



10

Editorial Locations



A different way of winding down

Skimming the news in the daily newspaper each morning, reading e-mails, replying to WhatsApp messages from friends, checking the latest stories, liking Instagram posts, and listening to a podcast on the way to work. Not missing anything, always on the alert. Thanks to digital media, we can catch up with what's new and communicate with everyone every minute of the day. The Covid pandemic, geopolitical upheaval, war in the Ukraine, the global recession and high inflation in Europe. I am worried, and my children also have lots of questions about the present and the future. You can feel it: Everything is moving faster. Every hour there are new headlines, and escalating situations in the world. Many predictions suggest the economy is in for a really bad time. A team of specialists sees new health risks from the pandemic, while an expert confirms an increase in social problems. Bad news with each passing minute. Everything is getting worse and worse. I feel helpless in the face of these challenges ahead. I am greedy for the latest information. Let's quickly check the smartphone. I don't want to be the last to find out. Then: I take a trip to China. This results in me being placed for ten days in zero Covid quarantine. Isolation in a hotel room. No way out, but three regular meals. Unstable, state-controlled internet access and seven hours' time difference from back home. I am cut off from the global flood of information and the communication highway. On the other hand, I have an unbelievable amount of time with few distractions.

The time in isolation seems to be in slow motion. The minutes pass like hours. I sleep, eat, and follow the day looking out of the window. As restless as a tiger in the zoo, I wander up and down through the little room. I experience a deep sense of agitation and realise ... I have withdrawal symptoms! From the news! I have nothing else to do apart from read the books I brought with me, have telephone conversations with my family and with colleagues. I make notes for a project. Study long articles. Catch up on sleep and try to do exercises in the room. All very conscientiously and calmly, because I am not short of time. After ten days, I see that the world is still turning! Nothing new has really happened. After careful reading I have understood some things a lot better. There are also positive developments. I am relaxed and am looking forward to hugging my family again soon. Hopefully I won't suffer a relapse when it comes to information

With this thought, I would like to wish you a peaceful and reflective Christmas, all the best in the New Year, and please do read and enjoy this latest "impulse" at your leisure

Yours.

Ralph Pernizsak

Milne

Ouestions, suggestions, different opinions? Write to us at impulse@ensingerplastics.com

Imprint

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Abseiling from 12 metres up

The silos where the insulbar division stores its compounds for profile manufacture are 12 metres high. Technicians have to carry out weekly servicing and repair work on the duct systems and other plant components installed on the aluminium containers. During an inspection by the Cham fire brigade, it was suggested that experience in rescuing an accident victim could be gained as part of a height rescue exercise.

In mid-November the time had come: The task consisted of safely bringing down, with the aid of a rescue basket, a person who was incapable of moving. "Since there were no firm attachment points for the pulley, the fire brigade had to find suitable fixtures for securing the basket. In addition, it is a very confined working space on the silos", explains Herbert Rauscher. For the Head of Compounding, the conclusion from the exercise is clear: "In an emergency, every minute counts when it comes to rescuing an injured person. This is why we shall be making the silos accessible via a staircase from Level 1."

In total, eight firefighters and six Ensinger colleagues were involved in the exercise.



Firefighters from Cham on Compounding's internal silos

Visit from the mayor



Photo following the plant visit (from left to right): Andreas Alsfasser (Head of Service-Center Technical Management), Marco Kohberger (Production Manager, insulbar), Dr. Oliver Frey (Managing Director), Martin Stoiber (Mayor of the town of Cham), Edith Schneider (Head of the Machined Parts Division) and Werner Bachl (Cham Works Council).

Since May 2020, Martin Stoiber has been mayor of the town of Cham. Having only rarely had the chance to get to know local companies during the first two years of the Covid pandemic, in November he visited Ensinger for the first time.

Our Managing Director Dr. Oliver Frey, together with senior staff from the divisions and the Service-Center, presented the company. While touring the factory, the mayor was visibly impressed by the innovations in the fields of medical technology, thermal insulation and recycling. Conversations focused on current topics such as energy supply, but also on general issues relating to promotion of trade and industry and expansion of the infrastructure in the region.

Title Title

One-stop shop for medical technology products

A new video demonstrates Ensinger's competence across divisions

Ranging from knee, hip and shoulder joint reconstruction and traumatology through to diagnostics, surgery and lots more – Ensinger now belongs to the exclusive circle of solution providers when it comes to precision parts and other products from high-performance plastics and composite materials. The unique value added chain and broad product portfolio make Ensinger a one-stop shop in this global growth market.

The range of Ensinger Medical Grade (MT) materials and the different manufacturing techniques such as extrusion, machining, injection moulding, profile extrusion and compounding, offer design engineers a wealth of possibilities for developing innovative medical devices.

The patient's safety always has top priority in this process, whether in the selection of physiologically safe materials or during the testing of the compatible properties of Ensinger's Medical Grade (MT) plastics. The high compliance standards in relation to documentation, traceability and change notices permit the consistent transfer

of knowledge and data to authorities worldwide during the registration of products.

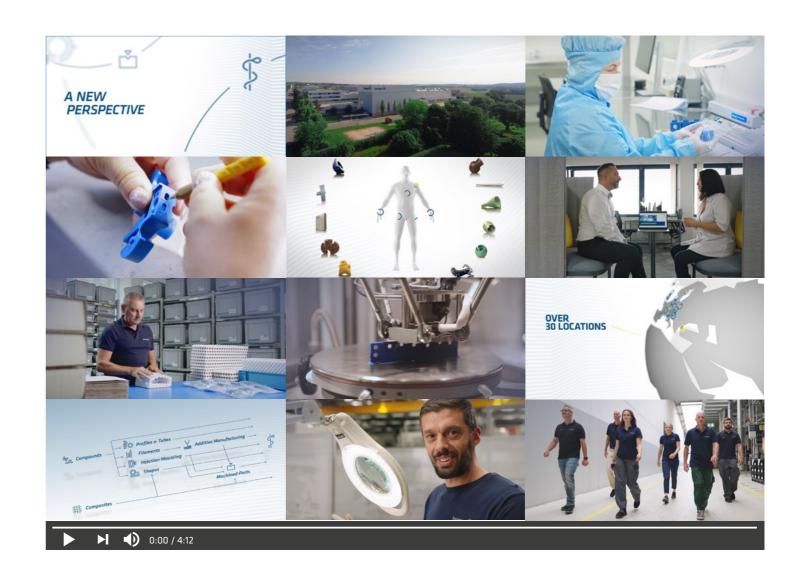
Moving images show expertise

In order to illustrate the Group's expertise in the field of medical technology by visual means, Industry Segment Management (ISM, see box) tasked the marketing team with the production of a video. Its implementation involved several divisions and all German sites, and the project management was split between Alexander Stehle (ISM) and Silke Hörmann (Marketing). Colleagues from Production and Assembly and also from Quality Assurance and Sales appeared in front of the camera.

After over 12 months of groundwork – plan, script, filming, editing and addition of sound – the video was recently published on Ensinger's website and social media channels, with the title "A new perspective on the production of medical plastic devices".



Test implants for knee joints: Machining on a machining centre in Cham.



Links to the video

- @ ensingerplastics.com/en/medical
- in linkedin.com/company/ensinger-gmbh
- youtube.com/@ensingerplastics



ISM: Cross-divisional support for market segments

For several years now, Industry Segment Management (ISM) has been responsible for the sales and marketing of stock shapes for the "Medical", "Aerospace" and "Semicon" sectors, as well as the "Energy & Future Green Markets". In order to

better harness the strength of the value added chain, in the future the sales teams will be providing cross-divisional support to these four target industries. The new area of responsibility is being run by Alexander Stehle.

Title Trade fair

Safety during operations

High-performance plastics for orthopaedic fixation systems

The goal of orthopaedic trauma care is to restore a broken bone to its correct position and alignment. If this is performed with a surgical procedure, internal fixation systems help to secure the bone in the anatomically correct position.

To ensure the positional accuracy of the screws for fixing the plate or nail to the bone, the guiding systems must not undergo any plastic deformation. Also of key importance are X-ray transparency and physiological safety (biocompatibility). The guaranteed quality and precision – even after several sterilisation cycles, accompanied by chemical cleaning – ultimately make the fixing systems a highend product. It is hard for metals and epoxy resins to fulfil all these requirements.

The future belongs to composites

Ensinger offers ideal composite materials to manufacturers of guiding devices searching for innovative solutions. TECATEC

MT PEEK CW50 black, for example, stands out for very high mechanical values, particularly with regard to dimensional and torsional stability. Thanks to their low specific weight, guiding arms made from this material permit easy handling, and therefore ergonomically effective use during an operation.

Moreover, TECATEC MT PEEK CW50 black is X-ray opaque. This transparency permits unlimited X-ray imaging of the operating area. Furthermore, the material has been tested in line with ISO 10993 for biocompatibility for up to 24 hours contact time.

Long service life

The very good resistance to hot steam enables a high number of sterilisation cycles without impairing the accuracy of the fixation systems. Since it can be re-used up to 500 times, maintenance and replacement costs are reduced considerably.

Contact for queries

Daniel Ströbele, Industry Segment Manager Medical daniel.stroebele@ensingerplastics.com

Florian Zeitler, Key Account Manager Medical florian.zeitler@ensingerplastics.com



Documentation and traceability

Ensinger GmbH has introduced a certified quality management system in accordance with DIN EN ISO 13485:2016 for the development, manufacture and sale of semi-finished products, profiles, finished parts and compounds made of thermoplastic materials.

During the manufacture of products, the individual process steps are consistently documented. To ensure traceability down to the raw materials, Ensinger always issues the corresponding conformities for all medical grade (MT) materials on an order-related basis.

By electric car to the IT security fair

■ At the it-sa trade fair, held every year in Nuremberg, everything is about information security. Companies and professional visitors use the platform to exchange ideas on new products, trends, innovations and news from the IT security sector.

Because several of Ensinger's partners were among the security providers at the it-sa, a team from Nufringen also headed to Nuremberg. Jens Dettinger, IT Security Officer, hired one of the new electric cars which have been part of Ensinger's vehicle pool since this year. The team also included Katharina Balg, who is following a dual study programme in information systems, and Felix Braun, who is completing an apprenticeship at Ensinger to become an IT specialist in systems integration.

For Jens Dettinger, networking and knowledge transfer at trade fairs and conferences is now an absolute must. For the two new recruits, it was their first visit to a specialist IT trade fair. The team made use of the day in Nuremberg to find out about new technical solutions in the fields of information security and risk management. The trade fair visit was topped off with professional discussions at the stand belonging to the Federal Office for Information Security (BSI).

The hired electric car convinced the three IT specialists. Though it was not possible to charge up the electric car on the trade fair site due to a lack of charging points, a twenty-minute stop at a service station was sufficient to top up the batteries for the journey home.



The electric car batteries charged up faster than expected. Katharina Balg, Felix Braun and Jens Dettinger on the return journey from Nuremberg to Nufringen.

insulbar at BAU

■ In four months' time, BAU is opening its doors again in Munich. From 17 to 22 April, exhibitors and visitors will meet at the leading global trade fair for architecture, materials and systems.

At Ensinger too, preparations for the fair are currently very much underway. "After the hybrid event two years ago, we are looking forward to being able to meet our customers and potential customers in person again" says Matthias Rink, Director of Sales & Products for insulbar EMEA. This time, the insulbar division will be located in Hall B1, Stand 438.

More information:

insulbar.com bau-muenchen.com



April 17-22 · Munich

Employees Employees

A warm welcome ...

Employees who have joined Ensinger GmbH from August to December 2022

Nufringen

Finance & Controlling

Linda Kiefer

insulbar

Silke Waterstrat

IT

Alexander Leucht Ralf Rebholz Carina Sökler * Marcel Steiner Christian Vollheim-Gelf Andreas Westphal

New Business Factory

Axel Philippin * Cihan Tari

Quality Management

Dr. Sarah Sirsch

Shapes

Matias Escobar Nils Goretzky Hakan Görotas Silas Hendrik Kotzian Waldemar Malomuzev Johannes Schmollinger * Tarik Susü Özcan Türkel Samet Yilmaz Sevilay Yilmaz

Special Products

Marvin Köhler Aaron Siegel Tim Urschel Axel Wischnewski

Technical Management

Stefan Gadze Yannik Hörrmann Ömer Fatih Kaya Thomas Wallach

Tooling

Anil Öztürk

Apprenticeship:

IT Specialist Mark Wir

Industrial Management Assistant

Nico Wolesak

Mechatronics Technician

Viktoria Borger Jannik Widmaier

Process Mechanics

Salih-Alp Cetintas Resul Halimi Marvin Hasenöhrl Ranko Kovjanic Leon Lindner

Tooling Mechanics

Kai Hitzler Emir Kamberi Silas Lehre

Bachelor Programme:

International Business
Konstantin Schoenen

Mechanical Engineering

Leon Kärcher

Accounting & Controlling

Gina Storelli

Business Informatics

Thomas Fleck

Industrial Engineering and Management

Benjamin Preuß

Ergenzingen

Composite Materials

Maik Pfister Niklas Stumpp Nico Zimmermann

Injection Moulding

Jonas Betz Resul Gül Yvonne Hanselmann Lisa Hörmann Hülya Kelle Mate Medic Julija Mull

Cham

Finance & Controlling

Christian de Marche

HR

Marcella Schießl

insulbar

Christoph Bayer Bardhyl Lika Tomas Wuchterle

Machined Parts

Jonas Bauer Renata Rojtova Mathias Wanninger

Technical Management

Stephan Noe Günther Schmidt

Apprenticeship:

Industrial Mechanics

Samuel Schmid Christian Weber

Machine and Plant Operator

Maik Alles Lisa Wendschuh

Process Mechanics

Alexander Glaser Svenja Halder

Machining Mechanics

Markus Milusenko Simon Rosenblatt Maximilian Schnur

* Taken over after the apprenticeship / Bachelor programme

Outstanding results

■ This autumn, at the Nufringen and Cham sites, a Wilfried Ensinger Award was given to a total of six young people who had completed either their apprenticeships or dual degree programmes with outstanding results. Maurice Edelmaier received this honour for his excellent final exam result which marked the end of his mechatronics engineer training. He is now working on the electrician team run by his former trainer Andreas Lauer in Nufringen. Axel Philippin was recognised for his successful dual bachelor degree in Industrial Engineering. He is the first graduate to receive the Wilfried Ensinger Award for the second time. The first was presented to him in 2017, after he had completed his training to become a process technician in plastics technology and achieved the best results in the state. Johannes Schmollinger is the third at Nufringen in receipt of an Award. Over and above this, he received an award from the Baden-Württemberg Cooperative State University (DHBW) as the best graduate on the bachelor degree programme in Mechanical Engineering (specialising in plastics engineering).

Chamber of Commerce and Industry certificate for training organisation



The final marks obtained by the trainees this year are also incorporated into the CCI's statistics. The CCI for the Böblingen district recently awarded Ensinger a

"Certificate of excellent training provision" in recognition of the excellent exam results. "Without the utmost dedication and the excellent teamwork between all those

involved in the training, this outstanding performance would not have been possible", is how the accompanying letter from the CCI it was phrased.

Also recipients of top grades on completing their apprenticeships with Ensinger in Cham were Tobias Adam, Vera Aschenbrenner and Felix Weingärtner. Now trained in cutting machine operation and

office management, their excellent achievements were recognised with the Wilfried Ensinger Award.

Whilst Tobias Adam has decided to pursue a further academic qualification after his apprenticeship, Felix Weingärtner and Vera Aschenbrenner are now putting their skills to use at Ensinger.



Presentation of the Wilfried Ensinger Awards in Nufringen (from left to right): Andreas Schmid (Head of Technology Special Products), Andreas Lauer (Trainer and Team Leader, Electrics), Maurice Edelmaier (Mechatronics Engineer), Miriam Fiedler (Head of Human Resources Development and Training), Wilfried Ensinger, Axel Philippin (Industrial Engineer), Johannes Schmollinger (Mechanical Engineer) and Mandy Belitz (Human Resources Officer).



Recognition of the Award winners in Cham (from left to right): Andreas Alsfasser (Technical Manager), Tobias Adam, Bernadette Engl (Works Council), Felix Weingärtner, Jessica Braun (HR Business Partner), Vera Aschenbrenner, Heiner Hackl (Apprentice Trainer) und Markus Heigl (Apprentice Trainer).

Sustainability

Ensinger publishes its first sustainability report

Self-evaluation on the journey towards socially and environmentally compatible management

■ Plastics processor Ensinger has published its first sustainability report. The document reinforces the family-owned company's commitment to a sustainable approach and comprises four areas: Strategy and Processes, Environment, Social Affairs and Corporate Governance.

"To ensure consistency on our journey towards sustainability, we have decided to also include unresolved issues and recognised shortcomings", explains Klaus Ensinger, Sustainability Manager. "Our actions should be measurable. With this in mind, this report serves as a self-evaluation in

relation to the goals and milestones on

our journey towards socially and environmentally compatible management."

The 40-page sustainability report has been compiled in line with German and international standards. The first chapter details workflows and provisions that ensure sustainability goals are borne in mind during Ensinger's day-to-day business. The second section deals with questions of environmental and climate protection along with the use of resources. In the third section, the authors look at working conditions and charitable activities, and the concluding part outlines ethical and legal issues in the context of company management.

In the previous reporting year 2021/22, Ensinger calculated the greenhouse gas emissions for its three German sites for the first time and summarised these in a balance sheet. Step by step, its factories and branches abroad are also going to be included in future assessments. From the corporate climate strategy, CO₂ reduction targets are derived which Ensinger will soon be submitting to the Science Based Target Initiative (SBTi) for inspection.

Klaus Ensinger is firmly convinced that sustainable actions can very much be reconciled with today's challenges.

"Engineering plastics contribute to saving weight and therefore fuel, they help avoid the use of lubricant oils and greases and reduce maintenance costs. By this means the polymer materials reduce the ecological footprint of the components in which they are used. A particularly important example of a sustainable product is our insulating profile insulbar RE, which is made from recycled polyamide and ensures efficient thermal insulation in metal window systems."



Front page of Ensinger's first sustainability report.

You can find Ensinger GmbH's 2021/2022 sustainability report here.





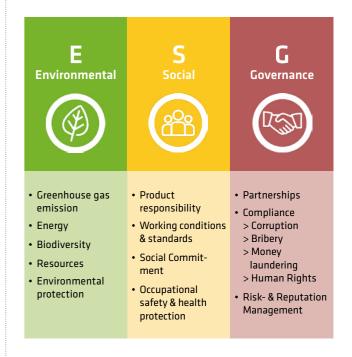
Ensinger is increasingly using electricity from its own photovoltaic installations. The installed power at the German sites is already 750 kWp. This means that from three installations, just under 360 MWh of electricity are generated annually. A further installation with a power of 930 kWp is under construction on the factory premises at the Cham site.



Plastic profiles between metal shells insulate the window frame. The "thermal break" was developed by Wilfried Ensinger at the end of the 1970s for the thermal insulation of windows, doors and façades made from aluminium and steel. The advanced insulating profile insulbar RE is made from 100 % recycled polyamide and therefore conserves resources at the manufacturing stage. Compared with conventional polyamide bars, the consumption of fossil fuels drops by 92 %, CO_2 emissions by 91 %, and water consumption by 78 % (cf. Environmental Product Declaration).



As a family business, Ensinger is aware of its social responsibility. In line with the motto "Today For Tomorrow", the company therefore takes responsibility for its actions and sets the course today for tomorrow.



ESG stands for environment, social aspects and responsible corporate management (governance). The sustainability of a company, for example, can be assessed on the basis of the various criteria from these three areas.

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Sustainability

The way to work as a fitness programme

Just 30 minutes of cycling per day are enough to feel noticeably fitter. To encourage commuters to combine something pleasant with something useful, the AOK together with the ADFC launched the "Bike to work" (#MdRzA) initiative. Anyone who takes a bike or pedelec to work on at least 20 days between the period the campaign is running is in with a chance of an attractive individual or team prize.

For a number of years now, the sites of Cham, Nufringen and Ergenzingen have been participating in the #MdRzA initiative. "We want to motivate employees to combine the environmentally friendly aspect of cycling with the health benefits of daily exercise", says Gigi Garcia, who is in charge of #MdRzA for the HR department at the Cham site. This year, an employee from the MP division is among the winners: Rainer Kremnitzer is delighted with a voucher for 400 euros which he can redeem at a local bicycle shop. Do you also want to turn your commute to work into your personal

fitness programme with #MdRzA?

At www.mit-dem-rad-zur-arbeit.de you can register for the campaign next summer.



Handover of prizes in Cham (from left to right): Gigi Garcia (HR), Benjamin Rieder (Bicycle Center Diermeier), Markus Edinger (AOK Director, Cham), Rainer Kremnitzer (MP employee), Dr. Oliver Frey (Managing Director), Fabian Althammer (AOK Customer Adviser).

The JobRad model – this is how it works

Choose the bike you want at a specialist dealer or online, all manufacturers and brands are possible. As an employer, Ensinger leases the bike through JobRad and concludes a transfer agreement with you. Use the bike whenever you want. Ensinger retains a small portion of your gross salary and uses it to pay the leasing rate. Because the bike is taxed at a favourable rate (0.25 % of the recommended retail price), it is cheaper than buying it directly.

In the meantime, 267 employees are already benefiting from the contract that Ensinger has concluded with JobRad. 87% of the leased bikes are pedelecs and 13% are bicycles. You can find detailed information, including a benefit calculator, on our information portal and on the JobRad website.

Contact: Marina Pavlovic (Nufringen, Ergenzingen) and Gigi Garcia (Cham).

Extra helping of fruit for children



In the group, fruit and vegetables taste even better. Children with their teacher at the Kindergarten Schulstraße who have been participating in the EU school fruit scheme since September.

"The plates are usually cleared fast. Even children who scarcely eat fruit and vegetables at home tuck in here in the group", says Nadine Ruscher, Head of the Kindergarten Schulstraße. Thanks to the EU school fruit scheme, children in primary schools and day-care centres regularly receive fruit and vegetables or dairy products from regional suppliers. This year, Nufringen is taking part in this scheme for the first time. Part of the costs are covered by sponsors. In the initital phrase of the project, Ensinger is contributing 1,000 euros.

The teaching that accompanies the scheme allows the children to find out where their food comes from, and about healthy eating. "We process the fruits in different ways. From apples, we make crisps, little cakes or jelly. The children discover that apple purée also tastes great without sugar, and along the way they learn how to integrate fruit and vegetables into their everyday eating", says Nadine Ruscher, pleased.

Polyimide production: Digitalisation increases efficiency

by Harald Redlinger, Project Manager, Ensinger Sintimid

■ At the Lenzing site, Ensinger Sintimid produces the high-performance plastic polyimide in granule and powder form (TECAPOWDER P84). The PI is used for several modern technical applications, for example in the microchip industry, in lightweight construction, for coatings or for hot-gas filtration for the production of hollow fibre membranes.

Over the past few years, the business unit was able to achieve stable growth. Because the future predictions for PI applications continue to be very positive, Ensinger Sintimid is investing in the digitalisation of production and looking at further adjustments to capacities.

Production data in real time

In a first important project, the TECA-POWDER team has brought the process documentation in Production into line with the latest technology. Before switching to electronic recording, all the relevant

process parameters were noted in analogue quality control charts and subsequently analysed by hand. In the digitalisation project, which took one and a half years, Ensinger worked with an external IT partner to develop a software-based solution. Now, system data can be retrieved in real time by smartphone and other terminal devices. This means that the production status is known at any time, and thanks to the integrated reporting functions, KPIs can also be calculated and analysed on the basis of the process values.

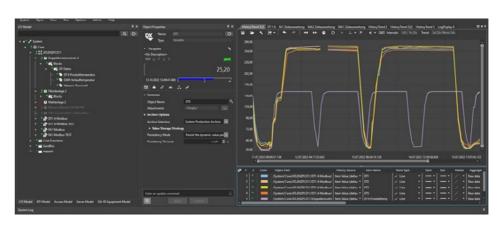
The digital solution has now been in use for just under two years in Lenzing. Feedback from colleagues in Production has been unfailingly positive. The fact that additional sites can be incorporated into the process documentation is a further important advantage of the new system when it comes to possible capacity expansion.

Short CV



Harald Redlinger's adventures in technology began when he was only a teenager. He decided to take his A-levels at the "Höhere Lehranstalt für Maschinen- und Anlagenbau" where he was able to experience plastics processing for the first time. At Ensinger Sintimid, Harald Redlinger has been a project manager on the TECA-POWDER team for three years now.

As well as being dedicated to his work, he is also studying industrial engineering on a part-time basis. He uses any rare free time for sports activities. In addition, he still takes time for his volunteering work with the Austrian Red Cross (emergency medical services).



Digital process recording of a system group at the Lenzing site

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Energy-saving measures in Production and Administration



Gas is the second most important energy carrier after electricity at Ensinger's German sites. Firstly, it is needed to heat the buildings, and secondly it is used as thermal process energy. In Cham, gas is also used to heat the carrier oil in the caprolactam tanks.

Although the situation in the gas market has become less critical recently, a rapid end to the energy shortage is not likely. If we have a hard winter, then the situation may get worse. Like all companies, Ensinger is being called upon to make its contribution to saving energy. Several technical efficiency measures have already been put into practice at the sites, for example expansion of heat recovery systems, optimisation of compressed air generation, conversion of the hall lighting to LED, and the installation of additional photovoltaic roof panels. Furthermore, the emergency gas team have planned the following centralised measures designed to save gas and electricity:

Reduction of office and hall temperatures

→ The rule of thumb says that lowering the room temperature by 1°C allows a heating energy saving of 5-6 percent. The plan is to set the target temperature in offices to 20 °C. From Christmas through to 6 January 2023, the temperature will be reduced to 12 °C in nearly all administration areas. Anyone who needs to carry out administrative work during this period should do this via mobile working where possible.

→ The target temperature in the production buildings is being set at 18-19 °C during the heating season, since the halls warm up additionally through the company operations. Additional energy saving possibilities will be agreed directly with the relevant people responsible.

Thermostatic radiator valves should not be fully opened during working hours, and when employees finish work they should be turned down to 1. Correct ventilation is also important: If a window is left on 'tilt' for a long time, then in winter the room cools down very quickly. Heating it up again requires a disproportionately large amount of energy. Fully opening the windows for just a few minutes, however, exchanges the air mixture without losing much heat

Switch-off not standby

All employees can also make further contributions both in their everyday work and at home, for example by completely switching off devices such as monitors and computers when they leave work, and not leaving them on standby.

You can find the latest energy saving tips from the Federal Ministry for Economic Affairs and Climate Action (Bundesministerium für Wirtschaft und Klimaschutz) on the website energiewechsel.de



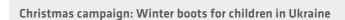
Lowering the room temperature by just one degree reduces the costs by 5-6 percent.

Aid for Ukraine

Ensinger employees donate 21,000 euros

Following Russia's invasion of Ukraine, the Wilfried and Martha Ensinger Foundation, together with Ensinger's Management Board and Works Council, had put out an appeal for financial donations and donations of items to support the refugee relief effort. At the end of March, 15 pallets with relief supplies were handed to the Red Cross on the border between Romania and Ukraine.

In addition, employees at Ensinger donated around 21,000 euros towards the humanitarian aid by the end of November. Thanks to what you were able to give, along with external donations, special donations and reallocations within the annual budget, the Ensinger Foundation is able to provide more than 136,000 euros in total for humanitarian aid.





This year, the Ensinger Group's Christmas donation is going towards one of the Wilfried and Martha Ensinger Foundation's aid projects: The Foundation is funding the purchase of winter boots for orphans and street children in need in Ukraine.

Would you like to support the Wilfried and Martha Ensinger Foundation's Christmas campaign with a financial donation? A Ukrainian partner organisation will ensure that the winter boots purchased are distributed locally to children in need.

ACCOUNT FOR DONATIONS

Recipient:

Wilfried and Martha Ensinger Foundation IBAN: DE67 6415 0020 0002 2363 39 BIC: SOLADES1TUB

(Kreissparkasse Tübingen)

Reference:

receipt.

"Weihnachtsaktion Ukraine"

Please also enter your address in this box
so that we can send you a donation

Prizes awarded for research work

The academic working group for plastics engineering (WAK – Wissenschaftlicher Arbeitskreis Kunststofftechnik) awards prizes each year for the best dissertations. With these awards, the WAK intends to document important advances in plastics research and also support the work of young engineers.

Jonas Petzke was honoured with a Wilfried Ensinger Award recognising work in the field of development and description of engineering plastics for innovative applications. For his Master's thesis, he had analysed the influence of additives and fillers on glass fibre length reduction in compounds.

Dr. Sebastian Kamerling received the Award for his dissertation, which looked at plastic-based tribological materials for slide bearing applications.



Klaus Ensinger, Jonas Petzke, Dr. Sebastian Kamerling and Prof. Clemens Holzer (WAK) at the award ceremony at the K2022 trade fair in Düsseldorf.

^ohoto: Plastics Europ



Food processing: No safety compromises

Whether baked goods, meat or frozen vegetables, the majority of our foods are industrially processed. Food manufacturers often use plastic components in their plants because they are lightweight, robust, and easy to clean. But even with the best material, entry of fragments into foodstuffs cannot be ruled out. Detectable plastics from Ensinger prevent this risk: With the TECACOMP ID product line, metallic fillers are added to the base polymer during compounding. Should a component made from this material happen to break, then even small particles can be reliably detected and removed from the production line by metal and X-ray detectors.

This year, Ensinger launched a new detectable compound. The product TECACOMP POM ID 1055303 has been specially developed for

injection-moulded components used in the food processing industry. The material has been optimised in such a way that the components made from it have good mechanical and tribological properties, as well as being easy to detect. A low glass transition temperature enables it to also be used at the temperatures encountered, for example in freeze-drying units. Ultimately, even at minus 50 degrees Celsius, food safety must not be compromised.

More information:

ensingerplastics.com/compounds/detectable