

# Telescope clean room for the CERT



Part of CERN's Preessin site in France is dedicated to producing beam intercepting devices, to be used in different particle accelerators across its world-leading particle physics laboratory.

This involves the assembly of highly specialised parts such as collimators to clean the halo of proton beams, beam stoppers and beam dumps to absorb the energy of particles. These beam intercepting devices are built in sections to allow parts to be decommissioned and removed for servicing & maintenance.

With these highly calibrated pieces of machinery there is a risk that exposed parts could be affected by particulate contamination during assembly or servicing. Contaminants inside the chamber could affect how the beam is travelling and render them ineffective.

Conducting the assembly inside a cleanroom would reduce the risk of particulate contamination - but some parts are up to 6 metres in length and 30 tonnes in weight. How would these colossal parts which need to be transported by overhead crane be moved into a cleanroom?

Collaborating with CERN scientists, Connect 2 Cleanrooms designed a telescopic cleanroom with three moveable modules that extend on guide rails from a closed

position, tripling the floor space. So when the larger beam intercepting device sections have been craned into the servicing bay, the cleanroom can be extended, laterally enveloping the part. Doors can then be closed and locked in position for safety and integrity.

The softwall cleanroom houses six HEPA filter fan units (FFU) in total, to maintain the clean air integrity no matter what the configuration. It achieves particle counts to meet ISO 14644-1 class 8 when in the extended position, controlling the risk of contamination.

Two FFUs are housed in a sealed plenum in the ceiling of the middle section, providing a down flow of clean processed air. The other four are housed in the end walls providing horizontal clean air flow. This means that the integrity of the cleanroom is always maintained and in the closed position it achieves particle counts to meet ISO 14644-1 class 6.

When in the closed position the cleanroom can be used for work on smaller parts. This means all the beam intercepting device components can be assembled in the same environment.

Now installed and validated at CERN's Preessin site, the cleanroom also delivers access to the required ser-

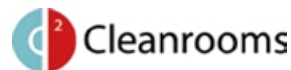
## Connect 2 Cleanrooms Extends Over CERN with Telescopic Cleanroom

vices with Swiss Type J power sockets and Cat6 Ethernet cable outlets. A control cabinet accessed externally allows control over the FFU speed.

CERN is a security protected site and the installation and valida-

tion team at Connect 2 Cleanrooms gained access through a comprehensive induction and validation process. Once they had achieved the required clearance, the team worked autonomously completing the complex installation and qualification in just eight days.

"Connect 2 Cleanrooms was the most competitive company who passed our tender qualification. The design stage was very fast and the principle of the layout was complete within the first iteration. The end result is unique when you see the extending cleanroom in motion." Oliver Aberle, Project Manager at CERN.



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**July 2019**

Dear subscribers,  
„hitzefrei“ has been cancelled and we have compiled an interesting newsletter for you from the articles collected last month in the sweat of our face.

In the current issue of the cleanroom online newsletter you will find among others on the following topics:

**Telescope clean room for the CERT**

**Pharmatag 2019: liquid pharmaceuticals in the digital age**

**Endress+Hauser invests in sensor technology**

**Cleanzone trade fair experience enriched by numerous events**

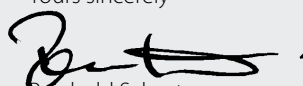
**MEDICA 2019: Clear focus on future topics and growth markets**

**Innovative, safe, and secure packaging for drugs**

...

I wish you an interesting read and a cool head

Yours sincerely

  
Reinhold Schuster



# New Gloves Range from DuPont – Optimum Protection at your Fingertips

DuPont is extending its chemical protective solutions with the introduction of a new Tychem® gloves range. The new gloves offer perfect compatibility with DuPont coveralls to create a Tychem® Trusted Chemical System™, giving specifiers and wearers assurance that the appropriate level of protection for their chemical exposure risk extends right to their fingertips.

Commenting on the new gloves range, Andrzej Palka, EMEA Marketing Manager of DuPont Personal Protection, says: "Tychem® chemical protective clothing from DuPont has long been recognized for its reliability against hazardous chemical exposure. However, it can be difficult to ensure that hand protection matches that of the main garment, particularly when sourcing from different suppliers who offer many different options.



The new range of gloves from DuPont covers most chemical protection needs, from basic protection to prolonged exposure to corrosive substances.



DuPont has introduced the new Tychem® gloves range, making it easier to ensure that hand protection matches that of the main garment.

"At DuPont, we want our customers to have full confidence in the products they select. The introduction of our new Tychem® gloves range makes it much easier to choose the correct glove for the application and match it to the coverall. This level of compatibility gives assurance that the optimum level of protection from chemical hazards is being provided for the hands as well as the body."

The new gloves range features various options in PVC, Nitrile, Neoprene, Butyl & Butyl Viton™. It offers specifiers a concise and high performance range of gloves covering most chemical protection needs and a wide range of applications: such as tasks where solvents are present, laboratory and small parts handling, or working in wet environments.

For example, Tychem® PV 350 gloves are suitable for general-purpose industrial applications where basic protection from chemicals, oil and grease is required. Resistant to a range of solvents and acids, they feature a rugged PVC coating for good abrasion resistance over a cotton/jersey liner for enhanced comfort and flexibility. The rough grip, combined with a 14" gauntlet, provides excellent wet grip for more secure handling.

At the other end of the safety spectrum are Tychem® VB870 gloves for prolonged exposure to highly corrosive acids, and which are suitable for military applications. These unlined gloves are made from fluoroelastomer rubber and feature a Viton™ coating over Butyl that provides a unique level of resistance. They are specifically designed for handling aliphatic and aromatic hydrocarbons - such as Benzene, Toluene, and Xylene - over extended periods.

To help customers find the right glove and coverall combination to meet their protection requirement, DuPont has developed a simple online selection tool called SafeSPEC™. Using information from more than 1000 different scenarios, it gives users access to the most comprehensive combined data set for matching gloves and coveralls to application parameters.

To find the Tychem® Trusted Chemical System™ that best suits your needs, visit: [Tychemgloves.dupont.com](http://Tychemgloves.dupont.com)

DuPont Personal Protection  
2984 Contern  
Luxemburg



# Pharmatag 2019: liquid pharmaceuticals in the digital age

## Inspiration, innovation, and technical highlights

- „Expertise for the perfect flow“ – Pharmatag 2019 from Bosch Packaging Technology
- Expert symposium in times of digital interaction
- New site manager Alexander Giehl introduces himself

Following the motto „Expertise for the perfect flow“, Bosch Packaging Technology Crailsheim hosted its Pharmatag 2019. 300 international participants accepted the invitation to the 9th Pharmatag on May 21 and 22, to find out more about the multifaceted world of liquid pharmaceutical filling. „Our Pharmatag 2019 was again a great success,“ said the new Crailsheim site manager Dr. Alexander Giehl. „We presented our guests with an exciting mixture of classic special machinery and innovative, digital technologies that distinguish Bosch Packaging Technology and the Crailsheim location – and will continue to do so in the future.“

### Plant tour of innovations

During the plant tour on the first day of the event, the participants looked behind the scenes of production in Crailsheim. They were able to experience both established machine concepts and individual customer projects in action. These included an integrated concept of the ALF 5000 filling and closing machine with isolator for the aseptic filling of highly potent products. Bosch also presented a line developed together with a leading pharmaceutical manufacturer, including an integrated robot for the precise and safe filling of biopharmaceuticals. Also on display: the Pharma i 4.0 Starter Edition, which visualizes production data live and in real time. The data collected with the software can be evaluated and provides the basis for process optimization.

„With our broad portfolio, we cover the entire life cycle of pharmaceuticals and machines,“ emphasized Uwe Harbauer, member of the

Board of Management of Robert Bosch Packaging Technology GmbH and head of the Pharma division in his speech at the evening kick-off event. „Our goal is to support our customers in their daily challenges in the best possible way. To this end, we are not only expanding our portfolio in the high-performance range and for the flexible processing of small batches. At this year’s Pharmatag, we also showed that we are moving into the next era with visionary technologies, innovative services and digital solutions together with our customers.“

### Interactive expert symposium

A special highlight of the symposium on May 22 at the new Carmen Würth Forum in Künzelsau was the keynote speech by Ranga Yogeshwar. The renowned graduate physicist, business journalist and television presenter dealt with central topics such as digitization, artificial intelligence and the relationship between man and machine – topics that are also increasingly important to the pharmaceutical world. Accordingly, the symposium was also characterized by digital interaction: the Crailsheim employees watched Ranga Yogeshwar’s presentation on a large screen, while the symposium participants were able to look directly into the machines at the Crailsheim plant via live data transmission.

True to the motto of the event „Expertise for the perfect flow“, the symposium, moderated by Dr. Charlotte Enghave Fruergaard of NNE, once again provided important industry impulses: four current case studies from customers all over the world highlighted aseptic filling



Moving into the next era: „At this year’s Pharmatag, we showed that we are moving into the next era with visionary technologies, innovative services and digital solutions together with our customers,“ said Uwe Harbauer, member of the Board of Management of Robert Bosch Packaging Technology GmbH and head of the Pharma division. (Picture: Bosch)



Plant tour of innovations: During the plant tour, Stefan Schuh, senior project manager at Bosch Packaging Technology, explains the advantages of the ALF 5000 for the aseptic filling of highly potent products. (Picture: Bosch)

## Pharmatag 2019: liquid pharmaceuticals in the digital age

with RABS, new technologies for the production of antibody drug conjugates (ADC) and the successful transfer of a concept study to the production of drugs for children with cancer. The symposium was complemented by 200 square meters of exhibition space, where participants were able to find out about both special topics and visionary future technologies. „The intensive personal exchange among the participants shows how important events such as the Crailsheim Pharmatag are for our industry,“ says Alexander Giehl.



New site manager Alexander Giehl: „Our Pharmatag 2019 was again a complete success,“ said Dr. Alexander Giehl, who took over the position of site manager at Bosch Packaging Technology in Crailsheim on April 1. (Picture: Bosch)

### New site manager Dr. Alexander Giehl

Since April 1, 2019, Dr. Alexander Giehl has been the new site manager of Bosch Packaging Technology in Crailsheim. He succeeds Joachim Brenner, who moved to Königsbrunn after almost eight years in Crailsheim to take over the management of Ampack GmbH and the product group Liquid Food. Alexander Giehl has many years of experience in manufacturing and production optimization. His career at Bosch began in 2003 in machine and process development. After positions in internal consulting and at Bosch Packaging Systems, he headed the Deployment Business Excellence department at Bosch Packaging Technology in Waiblingen from 2016 until his move to Crailsheim. Alexander Giehl is supported by Thomas Raab, who holds the position of commercial manager in Crailsheim since February 1, 2019.



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## Patch-Safe from Schreiner MediPharm Ensures Safe Storage of Used Transdermal Patches

### Reliable Disposal of Opioid Transdermal Patches

**For safe disposal of patches containing active ingredients Schreiner MediPharm developed the Patch-Safe specialty label for PS Marketing & Outsourcing GmbH. The multilayer label is applied to sachets and reliably seals a used transdermal patch between two layers. In the case of patches containing high concentrations of opioids, an accidental transfer of active ingredients to the skin and the resulting health risks, as well as potential abuse, can thus be prevented.**

When properly used, transdermal patches with high concentrations of active ingredients are effective and safe means of drug delivery used in chronic pain management or hormone therapy. However, when patches that contain opioids come into contact with the skin of non-patients, this may lead to serious health problems with deadly consequences—especially for children. In addition, pain patches in particular pose a high risk of abuse by drug addicts or, in some cases, by patients suffering from chronic pain because even used patches still contain large

amounts of active ingredients. Therefore, health authorities in various countries have issued recommendations and requirements for safe disposal of the patches.

With the label that has been newly developed by Schreiner MediPharm patches containing active ingredients can be safely stored and disposed of after they have been used. The specialty label solution for sachets of transdermal patches is applied to the individual packaging unit and consists of several layers. The bottom layer permanently adheres to the sachet while the transparent



With the Patch-Safe specialty label transdermal patches containing active ingredients can be safely stored and disposed of after they have been used.

top layer can be partially opened to insert the patch and to firmly seal it by reclosing the label. For additional safety, Patch-Safe can be provided with a perforation for tamper protection: An attempt to reopen the label with the inserted and sealed patch will cause the label to tear along the perforation—peeling off the top label layer will then only be possible with great force and thus additionally impedes abuse.

Schreiner MediPharm  
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# Connect 2 Cleanrooms and Elis Cleanroom Announce Partnership



Connect 2 Cleanrooms (C2C) and Elis Cleanroom have signed a partnership agreement on 18th May to further strengthen the contamination control solution packages offered to their customers.

C2C will now be representing the cleanroom laundry and rental services of Elis Cleanroom. This complements C2C's existing range of cleanroom consumables and will increase flexibility of service and scope of supply, benefitting the market with faster access to a full portfolio. In return C2C will be supporting one stop supplies to Elis Cleanroom accounts towards a broader range of products from leading manufacturers.

Joe Govier, MD of C2C commented; "This is a great opportunity for our current and future customers to decide on the very best garment rental solutions. Elis are at the forefront of supplying innovative product design using the latest research and materials."

Dennis Smeijer, Sales and Innovation Director Cleanroom of Elis Cleanroom supported the above comments; "Being a Contamination Control partner for our customers we are happy to partner up with a company whom has expertise in the field of constructing, validating and maintaining cleanrooms in order to deliver jointly to the market an increase of contamination control and decrease of total cost in use through our one stop package of service solutions."

Connect 2 Cleanrooms has been supporting the full cleanroom lifecycle with cleanroom design and build, consumables, validation and training services, for over 16 years.

Elis Cleanroom is part of the Elis Group and supplies optimal solutions of cleanroom garments and accessories across Europe and Latin America.

## About Connect 2 Cleanrooms & Cleanroomshop.com

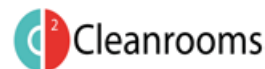
Connect 2 Cleanrooms is an award winning industry leader, supporting the cleanroom lifecycle both in the UK and internationally. Established in 2002, the company designs and manufacture hardwall, softwall and panel system cleanrooms in-house, as well as providing cleanroom validation and cleanroom training services. Its consumables division, Cleanroomshop.com, supplies a full range of consumables, equipment and furniture to the cleanroom industry worldwide.

## Vision Statement

To be internationally recognised as the industry innovator for critical environments. Proudly encouraging our people, clients and suppliers to be bold and enjoy the adventure of collaborative creativity whilst embracing growth, development and values.

## Mission Statement

Protecting critical environments whilst creating a journey of development and innovation for all that we touch.



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# Investments by the Röchling Group 2018 till March 2019

Last year, the Röchling Group again invested more than 150 million euro in its locations. This means that the level remains high, even though it was slightly lower than the previous year. "With courage and a commitment to expanding capacity across the Röchling Group, we have again spent large amounts of money to satisfy increasing customer interest in our products. Besides additional manufacturing capacities, we have also invested in new manufacturing technologies," said the CEO of the Röchling Group, Professor Hanns-Peter Knaebel, at the annual financial press conference at the plastics specialist's headquarters in Mannheim on Thursday, 23 May. Furthermore, last year, two companies were acquired in the Medical division and one in the Industrial division.

## Below is an overview of key projects

### January 2018

- Industrial division: The extrusion hall of Röchling Sustaplast SE & Co. KG in Lahnstein, Germany, was expanded significantly by 2,500 square meters and the expansion of the Logistics Center completed with the commissioning of an additional sheet saw with cutting optimization software, and a grinding machine. This significantly boosted delivery capability, optimized internal processes and improved the level of service for customers.

### February 2018

- Industrial division: Röchling Engineering Plastics in Gloucester, Great Britain, puts an ISO class 7 cleanroom into operation and, in doing so, expands its range of high-precision finished parts made from thermoplastics produced especially for the medical technology, phar-

## Investments by the Röchling Group

pharmaceutical engineering, aerospace and semiconductor industries. Röchling uses modern CNC equipment to machine complex finished parts according to customer drawings. In the new cleanroom, the components are cleaned according to specific procedures, packaged, and labeled according to customer specifications.

### April 2018

- Medical division: Röchling celebrates the inauguration of a new building at its Neuhaus am Rennweg, Germany, site. A new production facility covering a total of 6,900 square meters has been completed; it houses the manufacture of primary packaging for pharmaceutical products under ultra-modern Class GMP C (approx. 1,100 square meters) and Class GMP D (approx. 500 square meters) cleanroom conditions. The investment sum amounts to 35 million euro and marks one of the largest single investments in the history of the Röchling Group in one location. The undertaking also creates around 70 new and modern jobs at the site.

- Industrial division: Röchling Plásticos Técnicos in Bocairent, Spain, expands its location by around 1,500 square meters of hall space. The new building creates space for the expansion and further growth of the location. Customers will benefit primarily from shorter delivery times and even better service. With this investment, Röchling is taking into account the strong growth of the subsidiary in recent years.

### June 2018

- Medical division: Röchling Advent Tool & Mold, Inc. (today Röchling Medical Rochester) acquires the American medical technology specialist Precision Medical Products, Inc., (PMP) based in Denver, Pennsylvania (USA). The Röchling Group is thus consistently expanding the Medical division. PMP now operates under the name Röchling Medical Lancaster and employs 120 people. The products manufactured include: autoinjectors (special syringes for anaphylactic shock), medical products (minimally invasive instruments for eye surgery), bifurcation needles (special needles for vaccinations and allergy testing) and special syringes for bone cement.

- Automotive division: Together with Italian joint venture company Errecinque of the Lovera family and Röchling Precision Components, Röchling Automotive expands its plant in Oarja near Pitești, Romania. In a total area of 16,100 square meters, 182 employees are now responsible for the production of active grille shutters and SCR exhaust after-treatment and filling systems, among other things.

- Industrial division: Röchling Maywo GmbH opens its new logistics hall and expanded production area in Bad Grönenbach, in the All-



Schwartz GmbH Technische Kunststoffe

gäu region. With the investment of 5 million euro, Röchling is strengthening its position as a leading European manufacturer of vacuum formable sheets and foils made from thermoplastics and creating 25 new jobs. The site was expanded by approximately 10,000 square meters. Here a 5,000 square meter warehouse and production hall was built, in addition to a large employee parking lot.

### July 2018

- Medical division: Röchling acquires FRANK plastic AG, a provider of medical and industrial equipment based in Waldachtal in the Black Forest, with 260 employees. With this acquisition, Röchling is continuing to pursue its growth strategy in the medical and industrial segments. FRANK provides medical technology for such segments as cardiology, infusion therapy, angiography (CT/MRI), surgery and ophthalmology. The Industrial division supplies select segments with extrusion profiles, complex injection molding parts as well as valves, flow meters, and fittings.

### August 2018

- Industrial division: Röchling is planning to make substantial investments in the further gradual expansion of Röchling Hydroma GmbH at the Ruppertsweiler site between now and 2021. The groundbreaking ceremony takes place in August, with construction of the new production hall beginning at the start of September. Investments are thus being made above all in the development of punched components and machined drawing parts made of thermoplastics. This is strengthening and expanding the product portfolio in the food industry.

### October 2018

- Medical division: At its location in Brensbach, Germany, Röchling opens a new plant area. A total of 7.2 million euro was spent on this.



FRANK Plastic AG



Röchling Medical Lancaster

## Investments by the Röchling Group 2018 till March 2019

From now on, production in Brensbach will also take place in hygiene-sensitive GMP (Good Manufacturing Practice) class C areas and under smart factory conditions. The existing cleanroom area was expanded to 2,000 square meters and thus almost doubled in size. The existing cleanroom was modernized at the same time. All logistics, production and building technology systems were also connected.

### November 2018

- Industrial division: Röchling Engineering Plastics SE & Co. KG in Haren acquires plastics processing company Schwartz GmbH Technische Kunststoffe in Xanten, Germany, with a total of 240 employees. The company is integrated into the Group as Röchling Industrial Xanten. The new location, which specializes in the production of molded parts made from cast polyamide and, in particular, offers large-volume

and heavy-duty finished parts made from technical plastics for almost all industries, is to be expanded into a Center of Excellence for casting. A six-figure sum is to be invested in this in 2019.

### March 2019

- Industrial division: Röchling Engineering Plastics (India) Pvt. Ltd. inaugurates its second production building in Vadodara. In the 5,000-square-meter new building, in which the company is investing around 2.5 million euro, Röchling is manufacturing sheets made from branded material Polystone® P (polypropylene) in the extrusion process, with a width of up to 2,500 millimeters and in lengths and thicknesses desired by the customer.

Röchling SE & Co. KG D 68165 Mannheim

## New Instrument for Automated Antimicrobial Susceptibility Testing Provides Gold Standard-Level Minimum Inhibitory Concentration (MIC) Accuracy\*

### Instrument utilizes gold standard broth microdilution method to guide more targeted patient therapy and optimize patient outcomes

A new benchtop automated reading and incubation system is now available in Europe for antimicrobial susceptibility testing (AST). The new instrument provides microbiology laboratories with the accurate MIC results that clinicians need to confidently select an effective antibiotic for critically-ill patients while safeguarding future patient care through more successful antimicrobial stewardship.

Backed by a long history of AST accuracy, the Thermo Scientific Sensititre ARIS HiQ AST System relies on broth microdilution, the industry's gold standard, to provide an MIC result that supports the optimization of treatment decisions and ultimately, patient outcomes.

The new system adds value to laboratories that routinely retest invalid AST results or that require additional confirmatory testing prior to releasing results to clinicians. The immediate accuracy of phenotypically-driven MIC values delivers reliable results while minimizing re-tests and can support a reduction in hidden costs associated with reporting delays.

Through close collaboration with leading pharmaceutical companies, the Sensititre System also offers one of the widest, most up-to-date selections of antimicrobials, enabling earlier access to the latest therapies for multidrug-resistant infections. In addition, laboratories can create their own custom AST plates from a selection of over 300 antimicrobials in broad dilution ranges to consolidate and reduce off-line testing.

"The new Sensititre ARIS HiQ AST System provides microbiology laboratories with a unique combination of class-leading broth micro-



dilution technology, for the most accurate AST, and access to cutting-edge antimicrobials," said Bernd Hofmann, vice president of marketing, Thermo Fisher Scientific microbiology. "The availability of an AST device can determine whether or not a particular therapy can be used for a critically-ill patient. As the World Health Organization (WHO) and Centers for Disease Control and Prevention (CDC) continue to report on the increasing threat of antibiotic resistance, the ability to use these newer antimicrobials is more important than ever."

The Sensititre ARIS HiQ AST System has an expanded capacity of up to 100 Sensititre plates in a limited footprint that makes it possible to process more tests at one time while conserving valuable bench space. It also features an intuitive touch-screen user interface for convenient operation; 24/7 access to critical test information; and batch load and unload capability for improved testing workflow.

More information on the Sensititre ARIS HiQ AST System can be found by visiting [www.thermofisher.com/arishiq](http://www.thermofisher.com/arishiq) or by contacting [microbiology@thermofisher.com](mailto:microbiology@thermofisher.com).

\* Gram negative anaerobe susceptibility testing in clinical isolates using Sensititre and Etest methods. C. Hughes, C. Ashhurst-Smith, J.K. Ferguson. Pathology Volume 50, Issue 4, June 2018.





Left to right: Stefan Sonnhalter (Germany North and West), Armin Distler (Sales Director) and Thomas Dirnberger (Germany South)

## Sumitomo (SHI) Demag restructures national sales leadership team in Germany

### Sumitomo (SHI) Demag Plastics Machinery GmbH announces a new sales management in Germany, effective since May 1, 2019.

Sumitomo (SHI) Demag strengthens Germany's sales team and announces Armin Distler as director. Supporting him and managing a team of more than 13 sales colleagues are Thomas Dirnberger in South Germany and Stefan Sonnhalter covering the North and West regions.

According to Germany Trade & Invest, the domestic plastics industry counts as one of the country's most important industry sectors. With sales of EUR 92 billion, industrial clusters and a strong investment in R&D, Germany has set a high benchmark for innovation on the world stage. Sumitomo (SHI) Demag is aligning its business to support the entire medical, precision, automotive and packaging value chains.

Explaining the rationale for the new structure, Armin Distler comments: „Innovation underpins the success of the German plastics market. We intend to help customers leverage future innovation opportunities by drawing upon our respected technical application and automation expertise. Our ambition is to work closer with customers to anticipate and map out their future plastic moulding requirements. This proposition and new sales structure symbolises our core advisory strengths.“

A strong advocate of integrating service support with application development, Armin has been the Sales Manager for Germany South

for over three years. He joined the company in 2006, giving him a deep understanding of customers' evolving requirements. As director, Armin will oversee all sales activities in Germany.

Thomas Dirnberger takes over sales management in Germany South. Thomas, who has strong expertise in automotive, has managed the Stuttgart area for Sumitomo (SHI) Demag since 2004.

Stefan Sonnhalter joins the company to head up sales in North and West Germany. He has more than two decades of experience in sales roles within the plastics sector and brings a fresh perspective to his new appointment.

After more than 15 years at the company, incumbent sales director for Germany, Sebastian Dombos, is leaving by mutual agreement to pursue new opportunities. Thanking Sebastian for his commitment and contribution to the success of the German business, CEO Gerd Liebig comments: “Sebastian has been an excellent steward for the company and has made a lasting impact on Sumitomo (SHI) Demag's image and strong domestic performance in the German marketplace. We thank him for his dedication and achievements.“

# Arburg Thailand has expanded

- Inauguration: New subsidiary building in Samutprakarn
- More space: Largest Arburg showroom in Southeast Asia
- Open house: Two Allrounders demonstrate capabilities for packaging technology

On 17 May 2019, Andrea Carta, Arburg Director of Overseas Sales, together with Ratre Boonsay, Managing Director Arburg Thailand and Dr. Alexander Raubold, Counsellor Economic and Commercial Affairs of the German embassy in Bangkok, officially opened the new premises in Samutprakarn, Thailand. To mark the occasion, the subsidiary led by Ratre Boonsay hosted an open house event. Around 60 customers attended the event. On 10 May 2019, a traditional blessing ceremony with nine Buddhist monks had already taken place, intended to bring luck to Arburg Thailand and its employees.

„We are very proud to have the largest Arburg showroom in Southeast Asia because of the new premises. This enables us to offer our customers in Thailand optimum support and even better service,” said Ratre Boonsay, who has successfully managed the subsidiary since its foundation in 2001.

## Successful presence in Thailand

„The positive development over the past decades confirms that we chose the right path and that our continuous investments in the important Asian market have paid off,” Andrea Carta commented on behalf of the entire parent company, thanking the customers and the Arburg team in Thailand.

Since late 1992, the Thai market had initially been managed by a representative office of Arburg Pte Ltd. Its first employee was Ratre Boonsay, who took over the management of the newly founded subsidiary in 2001 and successfully established and expanded it together with her team. The new premises are located in Samutprakarn, one of Thailand's leading industrial regions.

## Open house event presented products and services

Guests were able to experience the performance of the Allrounder injection moulding machines „live“ with two packaging applications. A hybrid Allrounder 570 H with a clamping force of 2,000 kN produced two 500-millilitre containers in a cycle time of around six seconds. The second exhibit, an electric Allrounder 470 E Golden Electric with a clamping force of 1,000 kN produced two stacking boxes in a cycle time of around 18 seconds. A linear Multilift Select robotic system was used for handling of the moulded parts weighing 63.8 grams each. The customers were impressed by the applications and the possibilities offered by the new Arburg premises. With 705 square metres, it offers ample space for the presentation of machines, customer trials and training courses. The spare parts warehouse has grown as well, this allows even more spare parts to be delivered directly.

ARBURG GmbH + Co KG  
D 72290 Loßburg



Inauguration of the new Arburg premises in Thailand (from right): Andrea Carta, Director of Overseas Sales, Ratre Boonsay, Managing Director Arburg Thailand, and Dr. Alexander Raubold, Counsellor Economic and Commercial Affairs of the German embassy in Bangkok. (Photo: ARBURG)

# Endress+Hauser invests in sensor technology

## Subsidiary Innovative Sensor Technology IST AG expands its plant in Ebnat-Kappel, Switzerland

**Innovative Sensor Technology IST AG, part of the Endress+Hauser Group, continues its growth path. On 24 May 2019, the sensor specialist officially opened an expansion of its plant in Ebnat-Kappel in eastern Switzerland. The facility, built at a cost of nearly 15 million euros, now offers double the floor space.**

Mirko Lehmann, CEO of Innovative Sensor Technology IST AG; Matthias Altendorf, CEO of the Endress+Hauser Group; and Klaus Endress, President of the Supervisory Board at the Endress+Hauser Group, welcomed numerous customers, partners, representatives from politics and business and employees to the dedication ceremony. "The growing demand for innovative sensors, and the corresponding strong growth at Innovative Sensor Technology IST AG, made it necessary for us to expand the facility. We're confident that we have created the space we need to produce even more innovations," said Matthias Altendorf, CEO of the Endress+Hauser Group.

### Growing demand

The 13,500-square-meter plant includes roughly 3,700 square meters of production space, 1,500 of which is set aside for clean rooms. The office facilities and cafeteria were expanded as well. The expansion was necessitated by the increasing demands on production and the growing space requirements. Since moving to Ebnat-Kappel in

2012, Innovative Sensor Technology IST AG has doubled the number of employees at the location to nearly 200. The employees moved into the new facility after the 18-month construction project was completed in early 2019.

### Innovative Sensor Technology IST AG

Headquartered in Ebnat-Kappel in eastern Switzerland, Innovative Sensor Technology IST AG is one of the leading manufacturers of physical, chemical and biological sensors, specializing in the development and manufacturing of thin- and thick-film platinum and nickel RTD temperature sensors, thermal mass flow sensors, capacitive humidity sensors, conductivity sensors and biosensors. The company, with 400 employees around the world, has been part of the Endress+Hauser Group since 2005.

Endress+Hauser AG  
CH 4153 Reinach BL 1



On a path to growth: Innovative Sensor Technology IST AG – a subsidiary of the Endress+Hauser Group – expanded its facility in Ebnat-Kappel at a cost of around 15 million euros.



Dedication ceremony: Mirko Lehmann (CEO Innovative Sensor Technology IST AG), Peter Anderegg (CFO Innovative Sensor Technology IST AG), Christian Spoerlé (President of the commune of Ebnat-Kappel), Matthias Altendorf (CEO Endress+Hauser Group), Klaus Endress (Supervisory Board President Endress+Hauser Group), Bruno Damann (St Gallen State Councilor), Philipp Buchs (architect) and Jörn Lützen (COO Innovative Sensor Technology IST AG) officially open the expansion of the facilities of Innovative Sensor Technology IST AG.

# Allrounder anniversary at Scholz

- Handover of the one-hundredth Allrounder during a ceremony at Arburg
- Long-standing close collaboration, also during development
- Management of Scholz values possibilities of individual machine configuration

On 23 May 2019, Scholz GmbH & Co. KG from Kronach, Germany, received its one-hundredth Allrounder in a ceremony. For this special occasion, Gertrud Ebert, Managing Director and limited partner, as well as Karl-Herbert Ebert, Head of Technology and Development and authorized signatory of Scholz, travelled to the Arburg parent factory in Lossburg. The anniversary machine represents a milestone in the close cooperation between the two companies, which began in November 1974 with the purchase of the first Allrounder 221E/150.

Scholz is an SME with a staff of 200 and supplies technical precision plastic parts. The company focuses on products for gearing technology, as well as for the automotive, lifestyle products, medical technology, the electrical, IT data technology and microtechnology industry. Currently, these parts are being produced on 80 injection moulding machines with clamping forces of 50 to 3,200 kN; of these, 56 are Allrounders.

## On the path to success with Arburg for the past 45 years

Karl-Herbert Ebert is wholly satisfied with the decades-long cooperation: "With Arburg, we can count on always having the up-to-date high-end injection moulding technology at our disposal. Reliability and repetition accuracy is of decisive importance to us. We were also able to implement joint ideas in the development of new technology, for example the micro injection unit." The range of optional equipment for the Allrounders is almost unlimited. Scholz intensively used this benefit to ensure that the company always stays a step ahead by individualizing the equipment to a great extent. The company also values the direct and highly competent contact persons at Arburg, who always have a sympathetic ear for the Scholz specialists.

## Gratitude for the successful cooperation

The anniversary machine, a hybrid Allrounder 470 H with a clamping force of 1,000 kN and a size 290 injection unit, is automated with a Multilift robot system. It will be used to produce technical precision

parts, components for gearing technology, and micro switches.

"The one-hundredth Allrounder is a pleasant opportunity to say thank you for the decades of trust-based and inspiring cooperation," emphasized Oliver Giesen, Director Sales Germany, during handover of the anniversary machine to Gertrud and Karl-Herbert Ebert. "According to his own statement, Scholz pushes beyond technical boundaries, requiring suppliers that go down the same path. We are proud of being able to meet these high requirements", explains Oliver Giesen, who attended the celebration with Dr. Eberhard Duffner, Director Research & Development, Andreas Koch, Area Sales Manager, Jochen Seeger, Turnkey Department, and Iris Zinsser, Sales Germany.

## With a reliable partner towards the future

Karl-Herbert Ebert in turn highlighted the fact that Scholz does not only value Arburg's technology, but also the holistic approach in the partnership: "In the course of our cooperation, Arburg has always been by our side, true to its brand promise of 'Wir sind da.' And we know that we can continue to count on that in the future."

Oliver Giesen also emphasized the importance of this aspect: "Handing over the anniversary machine is a milestone, and we are looking forward to further joint projects and developments in which, as before, all wheels mesh successfully."

ARBURG GmbH + Co KG D 72290 Lossburg



The happy attendees of the celebratory handover of the one-hundredth Allrounder: Scholz representatives Gertrud Ebert (3rd from the left), Managing Director and limited partner, as well as Karl-Herbert Ebert (centre), Head of Technology and Development and authorized signatory, together with their Arburg contacts (from left) Oliver Giesen, Director Sales Germany, Andreas Koch, Area Sales Manager, Iris Zinsser, Sales Germany, Dr. Eberhard Duffner, Director Research & Development, and Jochen Seeger, Turnkey Department. (Photo: ARBURG)

# Cleanzone trade fair experience enriched by numerous events



Be it the compact presentation programme at the Cleanzone Conference, the DRRI Research Award or the Cleanroom Future Award – Cleanzone is once again offering a wide range of events in 2019 that enrich the trade fair experience, promote knowledge transfer and support innovations and new talent.

19th - 20th November 2019: CLEANZONE 2019, Frankfurt am Main (D)

In addition to the exhibitors' new products and services, the international Cleanzone trade fair for contamination control and cleanroom technology will yet again be featuring an extensive supporting programme when it takes place on 19 and 20 November 2019. The Cleanzone Conference – the heart of the event programme – boasts an entirely new format this year. With a compact presentation programme, it shines a spotlight on the topics that are important to the industry's future and comprises the central presentation area at the trade fair. For the first time, the German Cleanroom Institute (DRRI) and the VDI Association of German Engineers will be content partners of the event, whose key topics include updates to the VDI 2083 cleanroom guidelines. These involve new rules and regulations for dealing with nanoparticles, filter applications and the purity of medical products. The conference will also be venturing a look ahead, illuminating such topics as new technologies, modern climatecontrol technology, innovative lighting and cleanroom planning. A highlight: Timo Krebsbach, Managing Director of HHAC Labor Dr. Heusler GmbH, is presenting his new book. The full programme of the Cleanzone Conference, for which a separate ticket must be purchased, will be available from summer 2019.

## DRRI Research Award: Honouring an outstanding master's thesis

This year, the German Cleanroom Institute (DRRI) is for the first time presenting a Research Award worth 2,000 euros for an outstanding master's thesis submitted to a German university. The winning thesis must deal with innovative themes in the field of cleanroom technology that allow for practical implementation, and which are either currently of major practical or

scientific interest, or may be in future. All thesis submissions must be supported by sound science and must have received a mark of no less than 'good' from the university.

Professors and department heads may themselves recommend outstanding works to the offices of the DRRI by sending in a copy of such theses by no later than 20 September 2019. A panel of experts drawn from DRRI members will be charged with evaluating the theses that are submitted.

## Cleanroom Future Award: Ideas for the future

The Cleanroom Future Award will be presented at Cleanzone once again this year. The prize, which is sponsored by Cleanroom Future AG and overseen by Frank Duvernell, is open to companies, organisations, scientific foundations and individuals worldwide. The award honours pioneering advances in the field of cleanroom technology for their innovation, sustainability and efficiency. An international panel drawn from the fields of research, instruction and actual practice will be responsible for selecting the five most pioneering concepts. The winner will then be chosen at Cleanzone following voting by the trade fair public. Registration for the Cleanroom Future Award closes on 31 August. More information is available at [www.cleanroomfuture.com/page/cleanroom-future-award](http://www.cleanroomfuture.com/page/cleanroom-future-award).



(Messe Frankfurt/Sandra Gätke)

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# In Vogue: Digital Transformation and Circular Economy

## Fakuma 2020 with Focus on Advancing Networking

**13th - 17th October 2020: FAKUMA, Friedrichshafen (D)**

The Fakuma international trade fair for plastics processing, which is recognized as an industry and technology barometer, is verifying – in time-lapse mode – how quickly the plastics industry is evolving. The technical event with an emphasis on injection moulding continuously presents solutions offered by manufacturers, distributors and system integrators for mastering current and future challenges. Based on the great success of the event held in 2018 (1933 exhibitors from 40 countries gathered on Lake Constance for the first time ever), trade fair promoters P.E. Schall GmbH & Co. KG are already planning for increased internationalism on all available floor space in 2020. “For years now we’ve been occupying all available exhibition floor space at the modern Friedrichshafen Exhibition Centre, which is unfortunately only able to offer 85,000 square metres,” explains Bettina Schall, qualified business administrator and managing director of the event promoters.

### “Persistently Great Demand” for Injection Moulding Machines

The fact that the manufacturers of plastics processing machines anticipate further growth for the eighth year in a row is impressively underscored by the technological know-how of the manufacturers and distributors. The injection moulders unexcitedly reported on a certain amount of stabilisation with regard to order receipts at their business press conferences, but in light of longer lead-times due to bottlenecks for purchased parts, lack of personnel and insufficient production capacity, the current market slowdown is not at all inopportune for many companies. Within this context, Dr. Christoph Steger, CSO of the Engel Group in Schwertberg, Austria, and member of the Fakuma exhibitor advisory committee, spoke of a certain lateral motion which is taking place at a thus far unparalleled level. Accordingly, the somewhat cooled-down demand didn’t spoil the good mood of any of the participating companies during the course of Fakuma 2018 – especially in light of the fact that the plastics industry is still booming despite gloomy Brexit and stock market predictions, and even though the automobile industry is pushing back numerous projects due to the diesel crisis.

### Fakuma: the Most Important Trade Fair for Practitioners

Roughly 47,650 expert visitors from 126 countries travelled to Lake Constance in 2018. Although the figures fell just short of the record-breaking visitor numbers achieved at the anniversary event, the

promoter and the exhibitors were nevertheless quite satisfied because visitor quality was very good. Numerous exhibitors praised Fakuma as a “genuine working event”, and as the technical trade fair for established practitioners that’s consistently aligned to the process sequence in the field of plastics processing. “Nowhere else is it possible to explore conceptions, projects and visions with customers in a more concrete fashion, which is why the industry meet clearly has the status of an order placing trade fair for us as exhibitors,” explained an exhibiting injection moulder in order to put things in a nutshell. Beyond this, digitalisation and interconnectivity, as well as ongoing process integration and system solutions for machines and peripherals, necessitate a continuous dialogue between machine manufacturers and plastic processors. As a logical consequence, globalisation, digitalisation and circular economy were the predominating issues at Fakuma.

### Advancing Interconnectivity for Plastics Processors

Sensibly interlacing products and services in the field of production technology with IT in order to conserve resources, become more transparent and flexible, and to work more efficiently, was once the targeted goal of the Industry 4.0 strategy. The fact that manufacturers of plastics processing machines have meanwhile evolved significantly in this respect and now offer far-reaching digitalisation and networking of their machines was consistently apparent at Fakuma. Thanks to intelligent assistance systems and wide-ranging vertical integration – from ERP all the way down to the inner workings of the machine – self-optimising solutions are more than just a vision in the meantime. For certain tasks they’ve already become reality and visitors marvelled at them during Fakuma 2018, or expressed in the other way round: networking has arrived for plastics processors. “But there’s still a lot of ground to cover until wide-spread networking has been implemented,” says an insider, “and the direction things will actually take with Industry 4.0, IoT and the digital transformation will probably first become apparent at Fakuma 2020.

### Circular Economy has Arrived for Machinery Manufacturing

The fact that the currently rather poor image of plastics shared by the general public – which has resulted from the discussion of the contamination of the world’s oceans with plastic waste – is resulting in a sensitisation of the industry sector, is seen by Bettina Schall as an opportunity. Thorsten Ratzmann, CEO at Pöppelmann, expressed it even

## In Vogue: Digital Transformation and Circular Economy

more bluntly in his statement: "As a material which can be processed in numerous ways, plastic has fallen into disrepute in the meantime and the plastics industry has a serious reputation problem." For many people – so it would appear at first glance – plastic is "evil" and its use must be reduced in the future! This may indeed be an enticing goal, but in reality it contradicts the truth – a fact which was demonstrated at Fakuma 2018. Plastic must and will always be made use of for a more sustainable future. The term circular economy has thus long since established itself in the plastics industry. And the question is no longer "whether or not," but rather "how". The fact that circular economy has arrived in the field of plastics machinery manufacturing was more apparent than ever on Lake Constance. Especially since higher recycling quotas and improved efficiency for waste management can only be dealt with at the global level by means of an open dialogue. Plastics processors will only use recyclates for the production of plas-

tic products to an ever greater extent if reliable material quality is available in adequate quantities. However, this is only possible if enough recyclable waste plastic is collected. It became apparent at Fakuma in Friedrichshafen that the plastics industry will have to do much more itself in the future: "If we ever want to achieve the goal of closed-loop systems, we'll need to unite the forces of all partners involved in the value creation chain – including the final consumer. We have to work mutually and resolutely on all of the decisive steps within the loop including production and use of the products, as well as disposal," explained a recycling expert in Friedrichshafen. There's really nothing to add to this, because the mega-topic will remain on the agenda in any case.

P. E. Schall GmbH & Co. KG  
D 72636 Frickenhausen

## New Managing Director in France

- Frédéric Vandecandelaere at helm of French subsidiary since 1 April 2019
- Sound experience in mechanical engineering and plastics processing
- Local customer support since 1985

**On 1 April 2019, Frédéric Vandecandelaere became head of Arburg's French subsidiary. Arburg SAS, based in Aulnay-sous-Bois near Paris, was founded 1985 and thus was the first international subsidiary of Arburg. It has been successfully built up and expanded over the past decades and offers comprehensive technical consulting and services in the field of plastics processing.**



Frédéric Vandecandelaere has been at the helm of the Arburg subsidiary in France since 1 April 2019. (Photo: ARBURG)

"Our brand promise, 'Wir sind da' formulates the values for which Arburg has always stood: we are uncompromisingly committed to the interests of our customers at all times," emphasizes Gerhard Boehm, Arburg's Managing Director Sales. With this high standard in mind, the company looked for a new manager for the French subsidiary and found him in Frédéric Vandecandelaere.

### Experienced expert

The new Managing Director of Arburg SAS has a degree in economics and additionally completed a Master of International Business at the Ecole de Management in Strasbourg. In his previous positions, Frédéric Vandecandelaere gained many years of experience in mechanical engineering and plastics processing, for example as head of the French sales subsidiary of a thermo-plastic component manufacturer. During his familiarization period at Arburg, he will alternately work at the headquarters in Lossburg and the subsidiary in Aulnay-sous-Bois to prepare in-depth for his new task.

### Established team

Frédéric Vandecandelaere is taking over a well-established team consisting of 26 employees, most of whom have been working for Arburg for many years. They provide competent and comprehensive support in the fields of mechanical engineering, application technology and automation solutions to customers in France and the Maghreb countries Algeria, Morocco and Tunisia. The French market is divided into five sales area that are individually handled by the respective sales employees. Eight service technicians provide fast and competent help on-site. Additionally the customers can call the hotline to get expert assistance. The 1,360 square meters of the subsidiary's building has adequate space for a showroom with four Allrounder injection moulding machines, training rooms and a well-equipped spare part warehouse.

ARBURG GmbH + Co KG  
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# MEDICA 2019: Clear focus on future topics and growth markets



## Exhibitors use the new hall structure to re-organise their presence

As a result of the final phase of exhibitor registrations for the world's leading medical trade fair MEDICA 2019 in Düsseldorf (running between 18 and 21 November), one thing is already apparent: Exhibitors have a positive view of the updated allocation of subjects to the trade fair halls and are aligning their participation to the new structure with regard to target group orientation and placement and are also, in part, expanding their presence. Despite a market environment that is becoming increasingly demanding, Messe Düsseldorf once more expects participation of over 5,000 exhibitors from more than 60 countries.

**18th - 21st November 2019: MEDICA, Duesseldorf (D)**

"Increasing trade restrictions, higher margin pressure and Brexit – conditions on the market demand that our exhibitors pool their strengths, as must MEDICA, as well. There is a clear focus on future topics and growth markets," explains Wolfram Diener, Managing Director at Messe Düsseldorf. Digitalization clearly sets the pace for market development and MEDICA takes this into account, which is reflected in the new hall structure and the programs of the accompanying conferences and forums, says Diener. "In future, the healthcare industry and medical technology will only remain competitive if they keep up with digital change consequently and strategically."

Based on this development and the increasing convergence of software and hardware, especially in the fields of medical technology and electromedicine, the MEDICA information and communication technology segment will be moved from Hall 15 to Hall 13, where it has a direct connection to the halls for medical technology and electromedicine (Halls 9 to 14). The communication and information platforms MEDICA CONNECTED HEALTHCARE FORUM and the MEDICA HEALTH IT FORUM will also be located in Hall 13 in the future. These forums both attract a lot of attention, drawing in at least 10,000 visitors at the last trade fair, and are established audience magnets with sessions and presentations on all of the relevant digital healthcare trends. The same applies to the MEDICA START-UP PARK, the platform for the digitally-driven start-up scene, as well as the large joint stand for the wearables technology show.



Manufacturers of surgical instruments, on the other hand, will leave Hall 13 to move thematically closer to providers of imaging technology (e.g. endoscopy) as well as complete solutions for modern hybrid operating rooms in Halls 10 and 11. "With regard to performance and cost aspects, the operating room segment is possibly the most relevant interface of every treatment workflow and therefore particularly important for a clinic's success. At MEDICA, we show top decision makers state-of-the-art technology and operating room organisation with short distances in concentrated spaces," says Wolfram Diener, emphasising the clear benefits the new hall structure offers visitors.

### Digital change as an opportunity – MEDICA is the right platform

KUKA and HUR are among the companies that view digital change in a competitive environment as a particular opportunity and see MEDICA as the right platform for international businesses. Computer-assisted training devices, for example, are at the core of HUR's activities. For the Finnish company, taking part in MEDICA is a tradition – and for good reason, as Lena Karjaluo, Executive Vice President at HUR, explains. "Here, we present our innovations, meet customers from around the world, train distributors and regularly make new contacts."

KUKA is also active around the world. The company specialises in automation and robotics and at MEDICA 2018 presented the LBR Med, a sensitive lightweight robot with various fields of application in medical technology. Subsequently, KUKA now plans an especially grand performance. As part of MEDICA 2019, they will present the „KUKA Innovation Award 2019“. "Healthy Living" is the motto of this year's award, which is endowed with 20,000 Euros. KUKA consequently will be awarding the prize as part of the No. 1 international medical trade fair. The prize is addressed to developers, graduates and research teams in companies and at universities and aims to accelerate the speed of innovation in the field of robot-based automation and strengthen the technological transfer from research to the industry. The five finalists have already been chosen. They will present their concepts live at MEDICA 2019. The scope of their topics ranges from robot-assisted intestinal cancer diagnostics and robotic support in neurosurgery to robot-assisted treatment of microfractures in the spine.

### Expanding presences and renowned returnees

Mindray and Zimmer MedizinSystems are among the exhibitors that are flying their flags and further expanding their presence at MEDICA. To address the target groups of different disciplines selectively and optimally, medical technology company Mindray will present



## MEDICA 2019: Clear focus on future topics and growth markets

their broad range of products at two booths: the familiar booth in Hall 9 as well as in the new Hall 1. The latter focuses on applications for laboratory medicine.

Good experiences with MEDICA are the reason why Zimmer MedizinSystems, as a full-range supplier for diagnostics, therapy and aesthetic medicine, is expanding its stand space. For the company, which achieved record sales in the seven-digit range in 2018, the success of the trade fair is no accident: last year, 20,000 doctors and therapists received admission ticket vouchers in advance. „Our stand was correspondingly well attended. MEDICA has been with us for years and here we are achieving all our goals,“ says Armin Zimmer, CEO International of the Zimmer Group.

The list of the most renowned returnees among the exhibitors is enriched by Abbott and Euroimmun. Together with every exhibitor in MEDICA's area for laboratory technology and diagnostics, they will benefit from the upcoming completion of the new South entrance and the new Hall 1, where they will be presenting their innovative solutions.

The main focal points at MEDICA 2019 are: Laboratory technology / diagnostics (Halls 1 and 3), physiotherapy / orthopaedic technology (Halls 3 to 5), commodities and consumables (Halls 5 to 7 and 7a), electromedicine / medical technology, information and communication technology, medical furniture and specialist furnishings for hospitals and practices (Halls 9 to 17).

### The schedule for the conferences has been set

In addition to the trade fair, the conference programme is also one of the main pillars of MEDICA. The schedule for these has now been set for 2019. To name a few, DiMiMED, the conference for disaster and military medicine will take place in the Congress Center Düsseldorf (CCD Süd) on 18 and 19 November and the MEDICA MEDICINE + SPORTS CONFERENCE (20 and 21 November) will focus on aspects of prevention and sports medicine treatment concepts.

The 42nd German Hospital Conference, a leading communication platform for decision makers from hospitals, primarily addresses a German-speaking specialist audience (18 to 21 November / CCD Ost) as does the MEDICA PHYSIO CONFERENCE. With its treatment-oriented presentations, it is directed towards the professional scene of physiotherapists, sports medicine specialists and orthopaedists (20 and 21 November 2019 / CCD Süd).

COMPAMED 2019 will also take place alongside MEDICA 2019, on all four days (18 to 21 November) in Halls 8a and 8b. With around 800 exhibitors, COMPAMED is the leading international market platform for suppliers of the medical technology industry.

Last year's MEDICA and COMPAMED counted a total of 120,116 trade visitors from 155 countries.

Messe Düsseldorf GmbH D 40001 Düsseldorf

## COMPAMED 2019: Top bookings at the top event for medical technology suppliers



### Getting into the high-tech fast lane: Companies defy economic predictions with the power of innovation

The registration process for COMPAMED 2019 in Düsseldorf has proved how important it is as the international leading market and information platform for suppliers in the medical technology industry. COMPAMED, the perennial partner to the world's biggest medical trade fair MEDICA, has once again packed out both halls for COMPAMED 2019, with 800 exhibitors from almost 40 different countries heading to Düsseldorf from 18 - 21 November. „Companies are showing up at COMPAMED to prove that they are innovative forces to be reckoned with and to stand their ground in this market environment, which is becoming increasingly demanding,“ says Wolfram Diener, CEO of Messe Düsseldorf.

Although economic growth is generally predicted to slow both globally and in most European countries, the market for medical technology and medical products remains stubbornly robust and growth-oriented. German medical technology companies have just broken an annual turnover totalling over 30 billion Euros for the first time ever, produced with an annual growth rate of 5%. The suppliers also stand to benefit from this. However, despite this positive initial

outlook, there are still many challenges that the industry needs to master.

„More stringent trade restrictions, time-consuming approval procedures, increased pressure on margins and Brexit all mean that the market situation is forcing us to consolidate our power. Future-oriented solutions and close cooperation between suppliers, medical technology and users are the biggest elements required here. COMPAMED and MEDICA, who have come together to create the only union of this kind in the world, have produced an ideal platform for creating partnerships and developing business together“, highlights Wolfram Diener, stating the biggest factors that contributed to the high booking numbers.

### Expertise and skills from small companies and big groups alike

The registered exhibitors comprise both small and middle-sized companies as well as renowned groups such as Covestro, Evonik, Mit-

18th - 21st November 2019: COMPAMED, Duesseldorf (D)

## COMPAMED 2019: Top bookings at the top event for medical technology suppliers

Mitsubishi Chemical and Panasonic. "COMPAMED provides the perfect opportunity to link up with all of the significant stakeholders in medical technology personally. It's our opportunity to speak to a lot of decision makers throughout the entire value chain in a relatively short time. For us, COMPAMED is therefore a very efficient way to build up new business relationships and strengthen existing customer contacts", states Dr. Philip Engel, a Business Development Manager in the Medical Devices & Systems Segment at Evonik. Visitors can look forward to seeing a multitude of innovations, according to Dr. Engel: "As a speciality chemical company, we offer a broad palette of high-performance plastics for medical technology. At this year's COMPAMED, we're most excited about presenting the world's first implant-grade PEEK filament for use in 3D printers. We will also present resorbable materials and specialist plastics for short-term or long-term body contact. PEEK, a high-performance material, can be used in fused filament fabrication technology and is intended to enable additive manufacturing of 3D plastic parts for human implants."

Mitsubishi Chemical is also looking forward to COMPAMED 2019. "We offer products, services and solutions with high added value. Medical and healthcare is a focal topic here. We think COMPAMED is perfect for presenting our diverse product portfolio from a variety of affiliated companies in order to reach the correct target groups for these elements", says Dick C. Hoogerdijk, the Director of Marketing & New Business Development at Mitsubishi Chemical Europe.

### Power play in microtechnology

Exhibitors from the microtechnology sector will put their best foot forward once again at COMPAMED 2019. According to a current industry survey from the IVAM Microtechnology Network, over half of all European microtechnology companies are working in the market for medical technology and the health industry. One in five companies believes that this is their most important target market.

Based on this, it's no surprise that the "High Tech for Medical Devices" product market from the IVAM Microtechnology Network, located in hall 8a, is the biggest joint stand at COMPAMED at 700 square metres and with over 50 participating parties. It looks at innovations in the microtechnology, nanotechnology, photonic and new material key sectors.

The microtechnology sector is definitely benefitting from the cur-

rent trends of miniaturisation and digitalisation. Medical technology devices, instruments and products are becoming smaller and lighter to use while retaining their high performance and including technical data networking options. Medical technology suppliers therefore demand high-tech components in the smallest formats possible from their suppliers. These include actuators, chips, cameras, sensors, wireless modules and the batteries and data storage to keep them running. Examples of applications for these include micro endoscopes, lab-on-a-chip applications for fast diagnosis and various implants.

### Huge range and an attractive supporting program

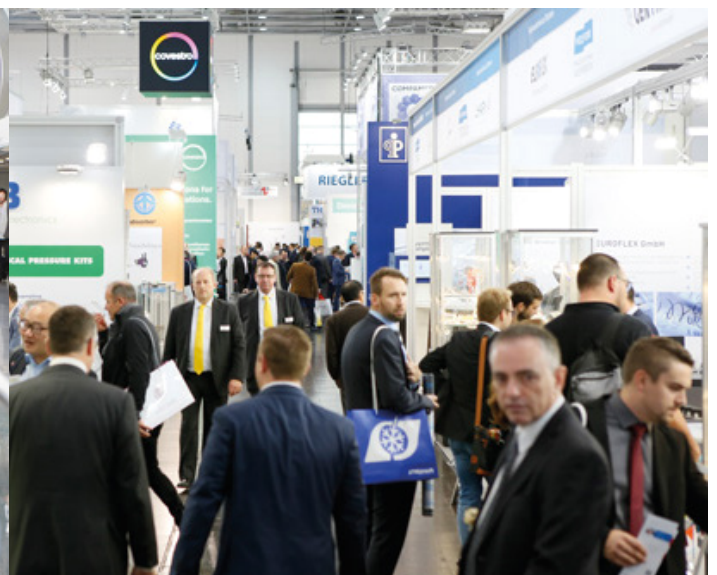
The diverse range of products and events on offer at COMPAMED 2019 in Halls 8a and 8b of the Düsseldorf trade fair centre centres around: Components for medical technology (electronics, components, hoses, filters, pumps, and valves, among other items), materials/substances, micro- and nanotechnology, made-to-order manufacturing, electronic manufacturing services (EMS), complex manufacturing and equipment partnerships (e.g. OEM – Original Equipment Manufacturers) as well as packaging and services.

The attractive supporting program is packed with expert knowledge. The COMPAMED SUPPLIERS FORUM brought to you by the DeviceMed journal (in Hall 8b) looks at trending topics throughout the entire medical technology manufacturing process chain. Mechanical and electronic components will also be a topic dealt with during the expert lectures on topics such as innovative materials and all types of made-to-order production.

The COMPAMED HIGH-TECH FORUM (Hall 8a) presented by the IVAM Microtechnology Network places great emphasis on microsystem technology, nanotechnology and production technology and process control.

The main target groups at COMPAMED are predominantly technical buyers, specialists in research, development and packaging, production managers, construction engineers and process engineers. Of last year's total of over 120,000 professional visitors to MEDICA and COMPAMED, almost 20,000 were specifically interested in the topics addressed at COMPAMED.

Messe Düsseldorf GmbH  
D 40001 Düsseldorf



# Innovative, safe, and secure packaging for drugs

## Gerresheimer at CPhI China

Gerresheimer is presenting various new products for safe and secure drug packaging and administration at CPhI China in Shanghai from June 18 to 20, 2019 (SNIEC, booth N5P21). At the beginning of the year, the company strengthened its presence on the Asian market by opening a new plant in Changzhou, dedicated to producing CDFA-registered plastic containers.

Gerresheimer is showcasing a series of regional and international products for safe and secure drug packaging and administration at CPhI China. The company's comprehensive product portfolio includes insulin pens, inhalers, micropumps, prefillable syringes, injection vials, ampoules, bottles, and containers for liquid and solid medicines with closure and safety systems.

### Polymer syringes

This year, Gerresheimer is presenting a broad range of prefillable polymer syringes for highly sensitive bioengineered drugs. The benefits of prefillable syringes include the low risk of the syringe interacting with the drug, safety and reliable functionality for the end user, and outstanding compatibility with medical products.

### Gx Elite Vials – top quality for even greater patient safety

With its Gx Elite vials for injectables made from type I borosilicate glass, Gerresheimer is unveiling the result of a careful product development process spanning several years. Glass-to-glass contact is avoided throughout production, ensuring that the vials are extremely shatterproof, highly robust, and free from cosmetic defects. They boast extremely accurate dimensions, while their resistance to delamination protects the drug inside. Simple handling and a range of packaging options ensure that Gx Elite vials can be supplied for end-to-end use on various filling lines. This cuts costs while improving quality, as countless past and ongoing tests by notable customers have shown.

### Vials for injectables from Shuangfeng in China

Gerresheimer's Shuangfeng site has been supplying many well-known pharmaceutical companies with tubular glass bottles for decades now. The range includes 1 ml to 50 ml bottles, 1 ml to 30 ml ampoules in various designs, and dental and insulin cartridges. The site is also home to a professional laboratory for complete glass analysis and test projects where extraction and leaching experiments can be conducted.

### Gerresheimer in China and India – glass and plastic primary packaging for drugs

The product portfolio of the new plastics plant in Changzhou comprises containers with closures, dropper bottles for ophthalmological applications, and monolayer COP bottles. Duma's famous Twist-Off container models are also included in the range, as are the Triveni containers with an induction seal. All containers are provided with various closure options, for example, to protect the original contents or make them child-resistant and/or user-friendly for the elderly, and are available with different integrated or assembled forms of desiccant and an absorbing agent. Gerresheimer's Shuangfeng site in China manufactures vials, ampoules, cartridges, and other specialty products made from clear and amber glass.

In India, the company produces vials and ampoules for local and international customers across three sites. The Neutral Glass plant in Kosamba makes pharmaceutical primary packaging from moulded glass, while Gerresheimer's Kosamba factory next door produces vials and ampoules from tubular glass. The Triveni Polymers plant in Kundli makes plastic containers bearing the Triveni Round and Square brand name.

### Global ties

Gerresheimer's factories in Asia, Europe, and the Americas work closely together as part of a global network. They apply current good manufacturing practice (CGMP) principles rigorously and are certified to ISO 9001. Some plants also have ISO 15378 certification or even higher. All Gerresheimer products comply with the relevant pharmacopeias (Ph. Eur., USP, and JP).

Gerresheimer AG  
D 40468 Düsseldorf



# upakovka Partners up with Several Drinks Associations



## Exhibitor registration for this leading Russian trade fair now open

Beverages take precedence at the next upakovka, which will take place at the AO Expocentre Krasnaja Presnja in Moscow from 28 to 31 January 2020. upakovka showed that it was a standard bearer at the WaterShow2019 - 18th international Forum of Bottled Water and Soft Drinks Manufacturers in Moscow in March and is now the official partner of the Russian Bottled Water Producers' Union (BWPU), who has organized the event. The core themes of the industry within the Russian market environment, including its neighbouring states, will be discussed at the conference. Along with the industry associations Russian Union of Juice Producers (RSPS) and the Union of Soft Drinks and Mineral Water Producers, Messe Düsseldorf Moscow has agreed upon a partnership as the organizer of the event.

At the last upakovka held in January this year, it was evident that Russian consumers are placing high value on bottled water and functional beverages alongside the usual breakfast cereals, ready meals and sweet pastries. New flavours, low-sugar drinks, smoothies and ready-to-drink teas were all trending for the urban population segment, who are becoming increasingly health-conscious.

This is why upakovka 2020 covers this range of themes extensively. It has become a longstanding tradition that our regular exhibitors include the big stakeholders in the industry, such as KHS, Kronen, Sidel,

SMI, Sacmi Beverages, IMACO and SIPA and talk slots are planned in the special theme forum, innovationparc. These will be moderated by Maxim Novikov, the Director of the Union of Soft Drinks and Mineral Water Producers. innovationparc has already doubled in capacity this year, thanks to the astounding resonance that the previous events have had. In 2020, talks on the trending topics in the packaging industry and the related processing industry will once again take place in parallel on two stages.

You can register as an exhibitor for upakovka 2020 online right now at [www.upakovka-tradefair.com](http://www.upakovka-tradefair.com). The trade fair is oriented towards eight core target groups, which consist of vendors of packaging material, packaging technology and the relevant process technology for various fields of application. These include food, confectionary and bakery, pharmaceuticals, cosmetics, non-food consumer goods and industrial goods, in addition to beverages.

**28th - 31st January 2020: upakovka, Moskau (R)**

Messe Düsseldorf GmbH  
D 40001 Düsseldorf

# Added value for the leading Swiss technology platform



## SINDEX 2020

**The date has been set for the fifth edition of SINDEX: the flagship Swiss exhibition for industrial automation will open its doors on the BERNEXPO site from 22 to 24 September 2020, thus taking place for the first time in parallel with Com-Ex, the communication infrastructure trade fair.**

From 22-24 September 2020, Bern will once again be the main venue for the latest industrial and technological developments in Switzerland: that is when the fifth edition of SINDEX will be held at the BERNEXPO site. The flagship Swiss exhibition for industrial automation brings together the main producers in automation, electrotechnology, fluid technology and robotics. They will present their latest inventions, trends, innovations and key technologies at SINDEX.

BERNEXPO is scheduled to have over 400 exhibitors in four halls and about 15,000 visitors are expected. The addition of an interesting supporting programme to the exhibition will again make SINDEX Switzerland's leading technology platform in 2020.

It will take place later in the year than the previous instalments, thus occurring in parallel with Com-Ex for the first time. The communication infrastructure trade fair is an established fixture in Bern and it will be held for the third time in September 2020.

"Holding SINDEX and Com-Ex at the same time allows us to achieve organisational and content-based synergies, thus adding value for both exhibitors and visitors," says Pascal Blanc, Head of the Industrial and Technological trade fairs at BERNEXPO AG. "At the same time we are using this closer cooperation to strengthen Bern as a central hub for industrial and technological events," says Blanc.

Detailed information on SINDEX 2020 plus the supporting programme will be announced in July 2019.

**22nd - 24th September 2020: SINDEX, Bern (CH)**

BERNEXPO AG  
CH 3000 Bern 22

# Hygiena announces new EnSURE™ Touch Monitoring System

## Instrument provides easier controls, improved data handling, links to intuitive software

Hygiena, a Warburg Pincus portfolio company specializing in rapid microbial detection, monitoring, and identification solutions, introduced the new EnSURE™ Touch Monitoring System. The EnSURE Touch is a next-generation monitoring system that collects, analyzes and reports data from multiple quality tests such as ATP, microorganisms, and enzymes, providing necessary data for audit and risk management.

The EnSURE Touch features the superior chemistry, sensitivity, and reliability enjoyed by Hygiena customers and incorporates innovative design and functionality upgrades including:

- Responsive 5" shatter-proof touch screen that works while wearing gloves.
- Re-designed user interface that functions like a smartphone and configures to fit any facility or network of facilities.
- Wi-Fi capabilities and wireless sync technology for secure data transfer to new cloud-based software.
- Collection and storage of important testing data such as room number, line name, cleaner used, and more.
- Training remote teams with built-in screen sharing technology.

„We are excited about introducing the next generation of convenient, accurate testing for possible contamination,” said Steven Nason, CEO of Hygiena. „The EnSURE Touch is the result of new, advanced research and engineering, and incorporates the superior chemistry and ability of our previous instruments with today’s data management and hand-held technology.”

The EnSURE Touch is designed with its users in mind. Incorporating key design features and customization options, it is easily setup for industries like food and beverage manufacturing, healthcare, food service, hospitality, and many more. The EnSURE Touch is accompanied by the latest version of Hygiena’s SureTrend Data Analysis Software, SureTrend Cloud. The updated software is available in cloud-based or desktop formats and enables users to monitor, track, and trend testing results across one or multiple facilities, schedule automatic reports, and easily configure one or hundreds of monitoring systems from a single SureTrend account.

Hygiena, LLC  
Camarillo, Kalifornien Vereinigte Staaten



Hygiena's EnSURE™ Touch Monitoring System.

### Impressum:

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