



Close up of Floor Standing Settle Plate Stand
from Cherwell Laboratories.

Cherwell prepared media accessories help reduce risk in EM

EU GMP Annex 1 revision triggers growing requirement to protect agar plates and prevent spoiled samples

Cherwell Laboratories, specialist suppliers of environmental monitoring and process validation solutions for the pharmaceutical and related industries, has increased the breadth of its range of stainless-steel prepared media accessories for use within cleanroom environmental monitoring (EM) programmes, in response to customer demand. This is due to the increasing importance and need for continuous microbial monitoring in line with updated GMP regulations for the manufacture of sterile medicinal products.

The GMP regulatory inspectorate's focus on the revised EU GMP Annex 1 - continuous viable monitoring and data integrity - has elevated the humble agar settle plate and active air sample plate to delivering very high value data points. The agar plate costs only pence, but as soon as it is allocated a time and location its loss or damage can delay batch release of sterile products and require expensive, time-consuming investigations.

Andrew Barrow, Sales Manager, Cherwell Laboratories, explains, "Due to the recent Annex 1 revisions, we

have seen a renewed and growing interest in simple, well designed accessories to reduce the risk of accidents involving agar plates through the whole cycle - from receipt of sterile wrapped agar plates, to the final counting and identification of colonies in the laboratory. So, we have sought to support our customers fully by expanding our prepared media accessories range."

Cherwell's growing range of stainless-steel accessories includes Settle Plate stands offering a defined sample point and reducing the risk of a spoilt sample. Holding either one or two plates, the stainless-steel stand's two-shelf configuration provides a place for both the exposed plate as well as its lid, preventing it from becoming separated or accidentally damaged. The twin plate stand offers a practical solution where two types of agar (usually TSA and SDA for bacteria and fungi separately) are used.

A tall version, for placement near to critical points, has recently been introduced. This floor standing model of the settle plate stand can be placed in an optimal position for environmental monitoring, whilst being sited in

Cherwell prepared media accessories help reduce risk in EM

a non-intrusive location so as not to disturb workflow. Based on the existing design, the settle plate stand is mounted on a single rod, with a robust, circular base for stability, all in stainless-steel. Cherwell now offers the stand at 800mm and 1,000mm heights, but is also able to make the stand to a customer specified height, as well as a twin plate version on request.

Also ensuring crucial agar plate protection and complementing the plate stands, Cherwell manufactures stainless-steel contact plate and petri dish carriers to aid safe handling and transportation and ef-

ficient use of incubator space. Holding up to 20 plates, each carrier is 100% stainless-steel with no fixings or difficult corners to clean, providing a cleanroom compatible finish that is easily cleaned and/or auto-claved. For additional practicality, the units feature a handle for transportation, which moves to enable unobstructed loading of the carrier.

Cherwell initially developed its range of settle plate stands to meet specific environmental monitoring requirements following an approach by a pharmaceutical manufacturer. "We pride ourselves on our ability to offer customers bespoke solutions to meet their specific requirements," adds Andrew Barrow. "We have an on-site Engineering Team and experts that keep up to date with regulatory requirements, such as the latest revision of the EU GMP Annex 1. This means we can work closely with our customers to find the best possible solution to meet their individual environmental monitoring needs; we can also fully understand how our solutions can be used to support all of our customers."

Cherwell's product range has developed over the years to meet changing customer and regulatory requirements. Its Redipor® range of prepared culture media offers a vast selection of contact plates and Petri dishes, plus liquid media in a variety of formats. It also supplies microbial air samplers for a range of environmental monitoring applications, including cleanroom, compressed air/gas and isolator monitoring. Supported by an experienced in-house engineering department, Cherwell's SAS air samplers offer a convenient, robust, and reliable solution to environmental monitoring needs.



Cherwell Laboratories Ltd
OX26 4XB BICESTER
Vereinigtes Königreich



July 2020

Dear subscribers,

in the last two issues of the newsletter, we had still emphasized the webinars at the events. Now it turns out that we might not be allowed to use this word anymore. On March 26, 2003, the term webinar was applied for registration as a word mark; the registration itself took place on July 2, 2003. Since registered trademarks always enjoy protection for 10 years only, the term of protection was extended on April 1, 2013.

Thus, the term webinar - subject to a further extension - is currently protected under trademark law until March 31, 2023.

In order to avoid the risk of a warning, we have therefore decided to use the term „web seminar“ with immediate effect.

In the current newsletter you will find among others the following articles:

- > **Mobile cleanroom workstations with Li-ion/LiFePO₄ batteries**
- > **Manufacturing successfully resumes after shut-down**
- > **Not all masks are created equal**
- > **High-volume production of test swabs to start shortly**
- > ...

Yours sincerely

Reinhold Schuster

Mobile cleanroom workstations with Li-ion/LiFePO4 batteries with service life well over ten years

For the various cleanroom workstations of the TROLLEY series, customers of Systec & Solutions can now choose a Li-ion/ LiFePO4 battery, which offers them extreme durability, more efficiency, lower costs and better environmental compatibility.

The facts at a glance:

- Entire TROLLEY series available with Li-ion/ LiFePO4 batteries
- Service life of Li-ion/LiFePO4 batteries well over 10 years
- No replacement required over TROLLEY usage period
- More environmentally friendly, due to longer service life and no use of lead
- Safety due to internal battery shut off as part of a battery management system (BMS)
- Available in two battery sizes (for usage times of one to two shifts or for two to three shifts)

The new battery technology offers customers numerous benefits. Li-ion/LiFePO4 batteries have a much longer service life. Compared to conventional AGM batteries, for example, six to ten times more charging cycles are possible. If used correctly, the service

life of the Li-ion/LiFePO4 battery is well over ten years. Specifically, this means that even after more than 7,000 cycles with 80 percent DOP (Depth of Discharge) the battery still has 70 percent capacity remaining. As a result, it is not necessary to replace the battery during a TROLLEY's usage period. From a long-term perspective, these batteries are therefore a much more cost-effective option.

Looking at environmental aspects, Li-ion/ LiFePO4 batteries offer further benefits. The significantly longer service life saves valuable resources and results in less special waste to be recycled. In addition, the batteries do not contain lead.

The Li-ion/LiFePO4 batteries are equipped with a battery management system (BMS). This is an integrated electronic system that protects the battery against overheating, for example, and ensures safety through an internal protective shut off. They also offer a constant capacity and efficiency regardless

of the discharge current and temperature.

Li-ion/LiFePO4 batteries are available for all TROLLEY versions. Depending on the intended purpose, batteries of various sizes are available, delivering a power supply for mobile use over one to three shifts. The customer can choose between the 12 V / 50 Ah and the 12 V / 100 Ah version.

More ...



DRIVEN BY INNOVATION

Systec & Solutions GmbH
Emmy-Noether-Straße 17
D 76131 Karlsruhe
Telefon: +49 721 6634 400
Telefax: +49 721 6634 444
E-Mail: talk@systec-solutions.com
http://www.systec-solutions.com



Manufacturing successfully resumes after shut-down

The automotive suppliers Kromberg & Schubert planned to resume production activities with the help of Fraunhofer IPA. Protecting its customers and employees from coronavirus was the company's highest priority right from the very beginning. The measures developed are currently being implemented at all 26 of its sites around the world.

Kromberg & Schubert Automotive GmbH & Co (abbreviation: Kroschu) is one of the world's leading automotive suppliers. The company employs approximately 50,000 staff in 40 locations across 4 continents. Kroschu manufactures wiring systems and special cables, while it also provides plastics engineering for global brands such as Mercedes, VW and BMW. The coronavirus pandemic forced both Kroschu and its main customers around the world to suspend the majority of their manufacturing activities.

While the virus spread rapidly across the globe, Kroschu wasted no time in beginning to devise various scenarios as to how manufacturing could be resumed. Chief Operations Officer at Kromberg & Schubert, Dr. Thomas Lange-Stalinski, and Professor Thomas Bauernhansl, Director of the Fraunhofer Institute for Manufacturing Engineering and Automation IPA exchanged ideas as to how Kroschu could ensure that manufacturing resumed safely so that employees and customers would be protected from the virus. The aim was to leverage the expertise of Fraunhofer IPA in the fields of factory planning, logistics, value stream and automation to ensure that Kroschu could resume operations at all 26 manufacturing plants around the world quickly, efficiently and effectively, all the while providing high-level protection for its employees. For this to be made possible, measures had to be identified, defined and implemented. The aim was to guarantee the safety of both employees and customers while at the same

time safeguarding the production capacity of Kromberg & Schubert and limiting to an absolute minimum the financial repercussions for the company and its employees. Thomas Bauernhansl describes the challenge posed by the task: »It was clear to us that manufacturing would not be able to resume to full capacity straight away. For us, it was crucial that we achieved a responsible balance between the protection of employees and customers and production capacity«.

Task force develops online catalogue of measures

A further challenge was posed by the fact that on-site inspections and workshops were not possible. First of all, a task force was set up via videoconference. This contained experts from Fraunhofer IPA, employees from Kroschu HQ and several selected manufacturing plants. Photographic material and video footage helped the members of the task force to visualize the situation. They discussed which measures would be necessary on collaboration platforms. These ideas were then pooled and assessed in weekly online meetings in order to decide which ad-hoc measures were the most important. The IPA scientists had compiled some basic information on the causes, transmission methods and effects of coronavirus, which helped the task force to make the correct decisions. As a result, they were able to approve a standard catalogue of measures within a few days. The hands-on



By selecting and analyzing targeted measures, Fraunhofer IPA has prepared and strengthened resumption of manufacturing at Kromberg & Schubert. (Source: Kromberg & Schubert)

Manufacturing successfully resumes after shut-down

measures implemented during the first days included taking temperatures, managing transportation by bus, workplace design and risk analysis.

Value stream methods modified according to category of risk process. A set of technical solutions was also developed at the same time; these are now being introduced at the plants to support the organizational measures. To this end, Fraunhofer IPA took methodological procedures from the value stream and expertise in factory planning, in terms of supplier management, for example, and applied these to the coronavirus situation.

The IPA experts from the Bayreuth Project Group Process Innovation supplemented the value stream concept, which covers all value-adding and non-value-adding activities in order to eliminate waste during the manufacturing process for a product, to include risk avoidance. Risk process groups were categorized as high, medium, low and zero risk (working from home), with working areas marked as red, yellow or green.

In addition, Fraunhofer-Austria developed measures for external partners such as suppliers, logistics and maintenance. Visitors must complete a self-disclosure and self-assessment before being permitted on site.

Finally, the measures were rolled out and implemented at all 26 plants. A delighted Chief Operations Officer Stalinski said: „The safety of our employees and customers is of the utmost priority. The methods and guidelines developed along with Fraunhofer IPA have given rise to a highly promising concept which we can use to resume manufacturing. Our customers have also confirmed that we acted quickly and with great foresight“.

Project-turned-platform

Following the success of the project with Kroschu, Fraunhofer IPA together with Fraunhofer-Austria has set up a platform via which companies, alongside experts, can discuss and prepare ways in which they can safely resume production. The virtual CoLAB contains a pool of ad-hoc measures which ensure protection against the virus and working capacity. The Stuttgart-based production strategist David Maximilian Dörr summarizes the project: „While working on the ramp-up project with Kromberg & Schubert, we have observed that it is often simple yet well thought-out solutions which are the most helpful during the initial phase of manufacturing resumption.“ The scientists also work with the companies to develop strategies which lead to greater versatility both during and after the crisis. Michael Lickefett, Head of Factory Planning and Production Management at Fraunhofer IPA, highlighted: „In the Virtual CoLAB, we are guided by the question: How can we make companies more robust against events and external influences such as coronavirus?“



More ...

Fraunhofer-Institut für Produktionstechnik und Automatisierung IPA
Nobelstraße 12
D 70569 Stuttgart
Telefon: +49 711 970 1667
E-Mail: joerg-dieter.walz@ipa.fraunhofer.de
Internet: <http://www.ipa.fraunhofer.de>

Not all masks are created equal

New Hohenstein Quality Label for Tested Community Masks

Oronasal (community) masks are mandatory in many communities to help contain the coronavirus. To be effective, community masks must meet legal and functional requirements. Testing services provider and research partner Hohenstein developed the Hohenstein Quality Label for Tested Community Masks to meet and verify these needs.

While not required to guarantee defined protective functions like medical face masks or FFP respirators, disposable and reusable community masks are still subject to functional claims. By providing easily understood product information on labels, Hohenstein supports producers in increasing transparency for community mask users.

Breathing comfort is a key criterion for consumers. To meet quality criteria, standardized test procedures verify whether the material used is too dense and will make breathing difficult for wearers. Further quality parameters include washability, proper fit and compliance with legal requirements.

The quality criteria claimed on the label can be expanded by testing for harmful substances according to STANDARD 100 by OEKO-TEX® as an indicator for skin friendly textiles and a cytotoxicity test based on the testing of medical devices.

Hohenstein Laboratories GmbH & Co. KG
D 74357 Hohenstein



The Hohenstein Quality Label for Tested Community Masks makes product quality and longevity of products visible. (© Hohenstein)

Serialization: Syntegon joins OPEN-SCS Group

- Fighting pharmaceutical counterfeiting together
- Syntegon firmly believes in open platforms
- Long-standing experience brings benefits to working group



Syntegon Technology recently joined the Open Serialization Communication Standard (OPEN-SCS) Group. Joint goals include the fight against pharmaceutical counterfeiting and the establishment of interoperable interfaces for the implementation of adequate serialization solutions.

Open platforms are the future

The OPEN-SCS Group was initiated in 2014 to define, publish and maintain an OPC UA based standard and companion documents for the integration of serialization solutions. Syntegon fully supports the mission statement of the working group, to "allow functional interoperability of serialization solutions in order to seamlessly integrate the operations and business processes across organizations and regulatory bodies, aligning with other industry groups and standards whenever appropriate."

"Apart from the fact that saving lives through anti-counterfeiting measures is an excellent reason to join OPEN-SCS, we also firmly believe in open digital worlds and open platforms", says Jörg Willburger, product manager for Track & Trace systems at Syntegon. "Customers should have no constraints and a high flexibility to choose. Mixed systems with machines and software from different suppliers, combined with common interfaces will become standard. And that's exactly what we want to achieve with our commitment in OPEN-SCS."

Long-standing experience

Syntegon will contribute to the success of OPEN-SCS with long-standing experience in Track & Trace and serialization solutions, as Jörg Willburger explains. "We know that successful serialization projects usually consist of many different applications. In the end, it's all about having the right interfaces to combine them – and to realize the individual solution for each customer", he says.

Syntegon, formerly Bosch Packaging Technology, has a wealth of expertise: the company not only manufactures machines and equipment for serialization. It also offers the corresponding software, Manufacturing Execution Systems (MES), line management and master data solutions, as well as a comprehensive Industry 4.0 portfolio. Based on decades of experience, Syntegon has realized numerous successful serialization projects across the globe.

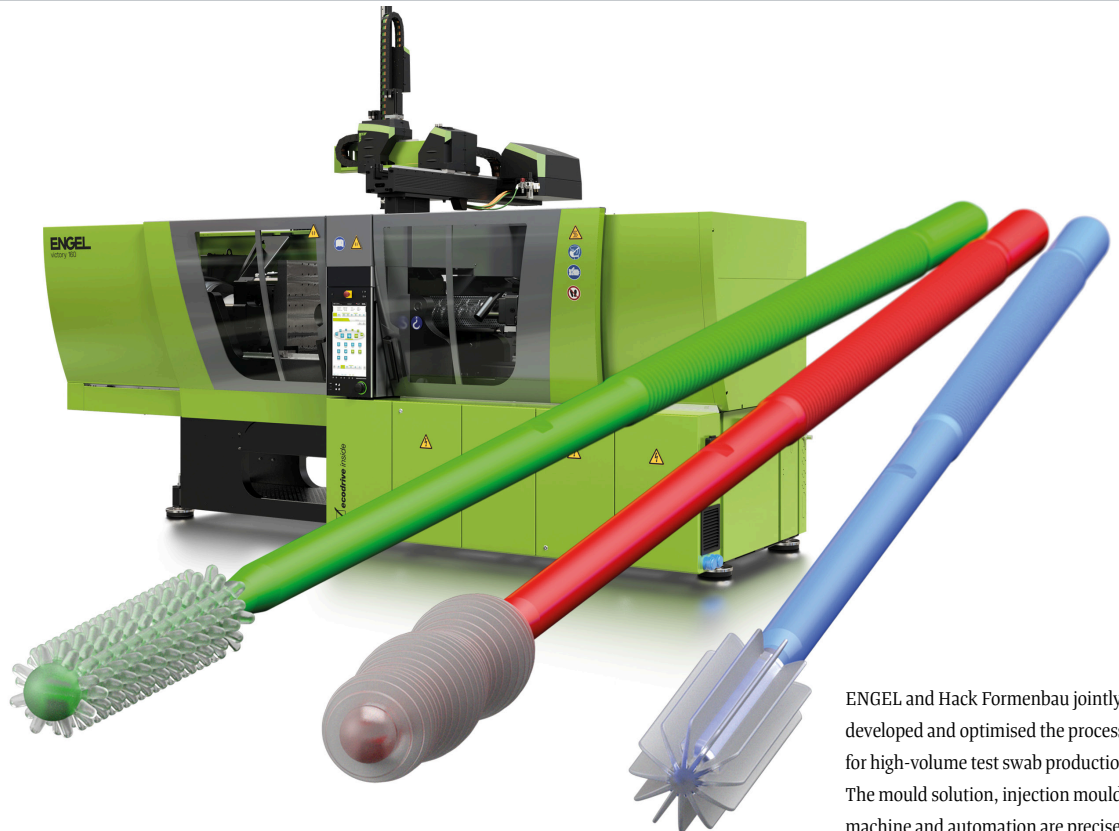
"Win-win for everyone"

At OPEN-SCS, Marketing Director Thomas Halfmann is delighted that Syntegon has joined the working group: "All members are looking forward to working with Syntegon and to realizing our targets together." Apart from suppliers of machines and software solutions, the group also includes consulting and pharmaceutical companies. "It really is a win-win for everyone", Halfmann and Willburger agree.

Syntegon Technology D 71332 Waiblingen



With its long-standing experience in Track & Trace and its comprehensive Industry 4.0 portfolio, Syntegon has realized numerous successful serialization projects across the globe.



ENGEL and Hack Formenbau jointly developed and optimised the process for high-volume test swab production. The mould solution, injection moulding machine and automation are precisely tuned for maximum efficiency and quality. (Picture: ENGEL)

High-volume production of test swabs to start shortly

ENGEL and Hack Formenbau together against Covid-19

The demand for test swabs for nasal and throat swab tests will continue to grow strongly due to Covid 19. Injection moulding machine manufacturer ENGEL AUSTRIA and Hack Formenbau are jointly committed to ensuring the global supply of test swabs. By providing an integrated system solution and process technology consulting, they are helping plastics processors to launch high-volume production of two-component test swabs with a short lead time.

The test swabs have a stable thermoplastic handle and a head made of a thermoplastic elastomer to make the examination less uncomfortable for the patient. Hack Formenbau developed this two-component design, initially with three different head design proposals. „We adapt the handle length and shape, the design of the swab head and the materials individually to suit customer requirements,“ says Gunnar Hack, CEO and owner of Hack Formenbau. The development objective is to combine high product quality with high-volume output and great cost-effectiveness. With a 32-cavity mould and a cycle time of 6 to 8 seconds, processors can achieve an output of up to 320 test swabs per minute and 460,000 test swabs per day with a single production unit.

Highest precision with the shortest cycle times

High efficiency is ensured by the integrated production process, which ENGEL specifically adapts to the mould solution developed by Hack. The process is based on a tie-bar-less, hydraulic, two-component ENGEL victory injection moulding machine with an integrated ENGEL viper linear robot for fully automated removal and depositing of the swabs. The victory machine is equipped with iQ weight control for high process consistency. This smart assistance system from EN-

GEL's inject 4.0 program detects fluctuations in the raw material and ambient conditions, and automatically compensates for them shot by shot by adapting the quality-relevant process parameters.

Sharing many years of experience

ENGEL and Hack Formenbau collaborate closely on many projects, with a focus on high-precision applications for medical technology. „We have had excellent collaboration for many years. And our customers benefit from this“, as Christoph Lhota, Vice President, ENGEL medical emphasises. „Our customers receive a complete system that is precisely tailored to their individual requirements and can get started with series production in the shortest possible time“. Covid-19-relevant orders are processed with the highest priority at both Hack Formenbau and the ENGEL plants worldwide.

In the future, the mould and system solution will not be used exclusively for coronavirus test swabs. ENGEL and Hack Formenbau are also jointly developing highly efficient complete systems for the production of swabs for influenza tests or gynaecological examinations, for example.

Center for Additive Manufacturing

The Röchling Direct Manufacturing Center (RDMC) in Waldachtal was opened officially on 11 May. Complex components and entire series made of plastic or metal are produced using 3D printing on the 500-square-meter site. "We are delighted that with the RDMC, we now have a place where the entire expertise in the area of additive manufacturing from our three divisions is bundled and continuously enhanced," said Prof. Hanns-Peter Knaebel, President & CEO of the Röchling Group.

The RDMC was founded back in August 2019 and is equipped with all commonly used printing technologies for additive series

production. "Despite the current protective measures implemented in the context of the coronavirus pandemic, we completed the construction project on time, thanks to the outstanding commitment of the teams at our location in Waldachtal," emphasized managing director Jens Harmeling.

His colleague on the management team, Dr. Axel Höfter, added: "Our customers will be mainly existing customers of the divisions, and our focus will be on series production. We have already implemented the first projects for this successfully." For the Industrial division, for example, they produce a component known as a trailing edge serration that

helps to reduce the noise of wind turbines; the latest development stage of this is now being manufactured additively. Prototypes for a new active grille shutter model are being produced for the Automotive division, and the RDMC is printing cores for injection molding tools with conformal cooling for the production of a tracheal tube (wind-pipe tube) for the Medical division.

Additive manufacturing is quick to use and can be tailored to individual requirements. During the current coronavirus pandemic, the RDMC is producing an attachment for door handles that allows doors to be opened and closed using the forearm; this is intended for the Röchling locations in order to prevent the virus from spreading within the company. A prototype of a face mask with a visor has also been printed and is now being produced by Röchling Medical.

Five employees currently work for the RDMC. Röchling invested a total of EUR 2.5 million in the 3D printing center.

The planned opening ceremony had to be postponed due to the coronavirus pandemic.

Capabilities at Glance



HP Jet Fusion 4200

- Procedure: Multi Jet Fusion
- Material: PA12
- Build volume: 380 x 284 x 350 mm



Arburg freeformer 300-3X

- Procedure: Arburg Kunststoff Freiformen
- Material: Standard plastic pellets, like ABS, PC, TPE-u, PP, PLLA, etc.
- Build volume: 234 x 134 x 230 mm



Stratasys J750

- Procedure: Multi Jet Printing
- Material: PP, ABS-like material full color
- Build volume: 490 x 390 x 200 mm



Stratasys Fortus 380mc

- Procedure: Fused Deposition Modelling
- Material: ASA, ABS etc.
- Build volume : 355 x 305 x 305 mm



EOS Formiga P110

- Procedure: Selective Laser Sintering
- Material: PA12
- Build volume: 200 x 250 x 330 mm



TRUMPF TruPrint 1000 + 3000

- Procedure: Selective Laser Melting
- Material: Tool steel 1.2709-A and Aluminium AISi10Mg-A
- Build volume: max. Ø 300 x 400 mm

Röchling SE & Co. KG
D 68165 Mannheim

Abrasion-Resistant and Award-Winning: Novel Adrenaline Injector Label

Patients suffering from life-threatening allergies always carry a life-saving companion with them: an adrenaline autoinjector in order to immediately inject themselves in the event of an anaphylactic shock and to thus counter an allergic reaction. For the emergency drug epinephrine from TEVA, Schreiner MediPharm developed an Autoinjector-Label with special protection against abrasion. Thus, the vital user and product information remains perfectly legible over an extended period of time. The label won an award in the 2019 TLMI Competition.

Epinephrine is a prescription drug for the treatment of life-threatening allergic emergencies. TEVA, a worldwide leader in generic drugs and specialty medicines, offers the adrenaline in single-dose, prefilled disposable autoinjectors. The label developed by Schreiner MediPharm for this injector is provided with abrasion- and scratch-resistant reverse printing. As a result, it is particularly resistant against chemical and mechanical impacts it is exposed to while the autoinjector is being carried in a purse or backpack, for instance. Due to its special material construction and design that is precisely adapted to the so-



phisticated shape of the autoinjector, the marking label securely adheres to the device. Thus, the vital information about the product and its use is reliably legible and readily available at all times. An additional cover protecting the label against abrasion or separation is not necessary, which reduces waste and

the environmental footprint. For product and patient safety, the label features a perforation that clearly and irreversibly indicates any first opening of the cap and thus any potential tampering attempt.

The TEVA Autoinjector-Label won recognition in the yearly North American Tag and Label Manufacturers Institute (TLMI) Competition that awarded Schreiner MediPharm's product development with second place in the "Multi-Process" category in 2019.

Schreiner MediPharm
D 85764 Oberschleissheim

Leading pharma packaging companies commit to supply for Covid-19 fight

Stevanato Group, SCHOTT, and Gerresheimer confirm the readiness to support future Covid-19 Vaccine with pharmaceutical containers

The CEOs of Gerresheimer, Stevanato Group, and SCHOTT are committed to ensuring ample supply of pharmaceutical containers for any Covid-19 vaccine and treatment that is developed, and that no patient shall be left behind, no matter what region of the world they live in. Also, the companies will make every effort to support the pharma industry's' priorities for overall medication supply in addition to Covid-19 drugs.

Each of the three companies manufactures billions of type-1 borosilicate glass vials, the most proven and most widely available material used to store and deliver vaccines around the world. They are making the statement to provide confidence in the global pharmaceutical supply chain in times of uncertainty.

"We stand ready to support the pharmaceutical companies in the fight against the pandemic," said Dr. Frank Heinrich, Chairman of SCHOTT's Management Board. "We will do our utmost to provide the required containers in the best quality. The fact that 50 billion borosilicate glass containers are already deployed each year for a wide variety of vaccines and treatments, and that we have made significant investments to expand capacity makes us optimistic this can be achieved."

"Since the outbreak of the coronavirus pandemic, we implemented all safety measures to protect our employees and deployed all available assets to secure our supplies to pharma companies," said Franco Stevanato, CEO of the Stevanato Group. "To support the mass vaccination campaign and the ramp-up industrialization needs, we invested in increasing the manufacturing capacity of vials from bo-

rosilicate glass. Conscious of the role we play, we are committed to ensuring all patients around the world have access to the vaccines and treatments."

"Facing the very challenging situation of a global pandemic we will do everything to support any upcoming Covid-19 vaccine campaigns in close cooperation with our customers. In 2019 and 2020 we are investing more than ever to deliver the highest quality products with additional capacity. We are fully prepared to support the global market demand for potential Covid-19 vaccines with our vials and syringes being produced in our large production facilities in the US, Mexico, Europe and Asia," said Dietmar Siemssen, CEO Gerresheimer AG.

Gerresheimer AG D 40468 Düsseldorf



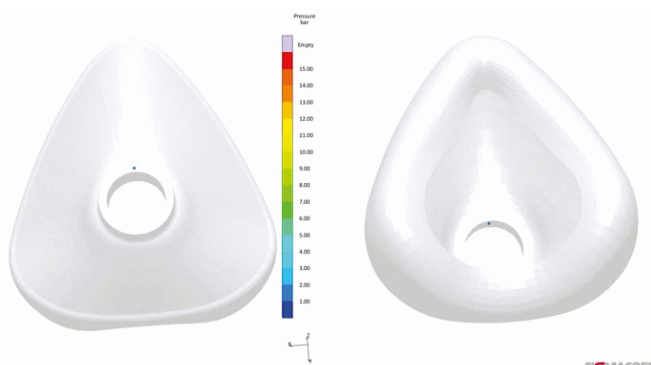
Precise and Quick Face Mask Production With Virtual Molding

Shorter Development, Faster Process - SIGMASOFT Optimizes Production of Face Masks

Starting in April, SIGMA Engineering, Arburg and many other partners joint forces to work on a new project against the spread of the coronavirus. Now the production of injection molded masks made of LSR (Liquid Silicone Rubber) is running at full speed. SIGMASOFT® Virtual Molding was used to determine and optimize injection points, pressure requirements, temperature distribution, air entrapment, and the crosslinking of the LSR material.

SIGMA Engineering GmbH („SIGMA“) based in Aachen, Germany, joined a cross-company project for a multifunctional face mask to help preventing the spread of the coronavirus.

„We noticed a high demand for protective masks from the public as well as from our own employees, which made this project-cooperation highly welcome“ says Thomas Klein, Managing Director of SIGMA about the current situation. „Due to the successful and focused cooperation with partners such as Arburg and Polar-Form we were able to simulate the layout of the complete LSR mold within shortest time and optimized the mold design for process-efficiency and robustness“.



More Than Just a Feasibility Study

For a smooth production of the masks, Tobias Sonntag, project engineer at SIGMA, used SIGMASOFT® Virtual Molding to evaluate the position of the injection point, the venting system, and the thermal design even before the mold was cut. The prediction of the process parameters and required curing time was also an important result of the simulation.

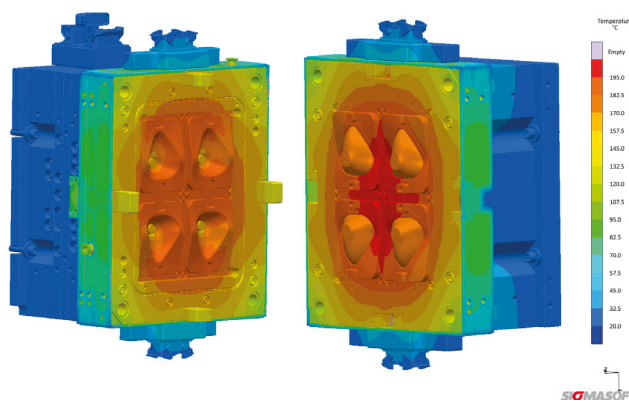
„We examined a lot of different factors. But the focus was on component quality, optical properties and, of course, the safety of the user that comes with a perfect component free of air entrapments or other defects. But also, a fast and resource-saving process design was very important to us,“ says Sonntag about the requirements for the project and part.

Energy-Efficient and Resource-Saving Through Simulation

There is no need to guess how the mold reaches its thermal steady state. Since SIGMASOFT® Virtual Molding will precisely calculate the required number of cycles - the reliability of mass-production is secured. For an exact control of the temperature distribution, the number of temperature sensors in the mold was increased to six and their positions were optimized based on the simulation results. This allowed a focused regulation of the heating cartridges. In addition, an optimal insulation of the mold reduced the required energy to a minimum - energy waste was avoided.

SIGMA completed the project within 24 hours, from the mold set-up to the filling calculations and the thermal layout. A total of four parts per cycle are injection molded at 180 °C from the non-postcure LSR Elastosil LR 5040 supplied by Wacker. The required symmetrical temperature pattern of the four cavities was first created and optimized in a simulation using optimal insulation, six temperature sensors and regulatable heating cartridges, and then realized by Polar-Form in the mold construction.

„To design a mold under pressure without component and process references is the strength of SIGMASOFT® Virtual Molding“ summarizes Thomas Klein. „The partners were under enormous pressure because everything had to run smoothly right away. We are highly pleased that the mold ran in the computer first and mistakes were avoided. This way, an efficient process was created very swiftly. Thanks to all partners for the joint success.“



The fixed (left) and the moving platen (right) at 180 °C after stabilization within ten cycles.

Vetter wins Axia Best Managed Company Award

A jury of experts are convinced: Vetter a symbol for the future of Germany as a business location.

Vetter has been awarded the Axia Best Managed Companies Award for its outstanding corporate management. The coveted seal of approval is awarded once a year by the consulting firm Deloitte, WirtschaftsWoche, Credit Suisse and the Bundesverband der Deutschen Industrie (BDI) to medium-sized companies that stand out for their clear vision, innovative approaches, sustainable leadership culture and solid financial management.

„With the Axia Best Managed Companies Award, we honor companies that are managed in an exemplary manner - as an incentive and role model for others,” says Lutz Meyer, partner and head of the SME program at Deloitte. In an extremely demanding, three-stage application process, the areas of strategy, innovative strength, corporate culture and finance are analyzed. The family-owned company Vetter was able to impress the jury with its strategic vision and innovative approaches in all award areas: starting with the systematic strategy process Vetter Excellence 2025, the clear customer focus and innovation management. The jury was also impressed by the anchoring of strategic initiatives in everyday work. For example, Vetter 4.0, with the aim of simulating optimal man-machine processes in the „factory of the future“ and then putting them into practice. Or the digitization program Vetter Phoenix, which bundles comprehensive projects such as electronic batch documentation under the title „Working in a digitized pharmaceutical value chain“.

„Vetter has convinced with its first-class corporate management, its high innovative power, a strategy based on a long-term perspective, strong governance structures and sustainable corporate culture, making it a benchmark for excellently managed medium-sized companies and at the same time a symbol for the future of Germany as a business location,” said Lutz about the decision of the expert jury.

For the two managing directors Thomas Otto and Peter Soelkner, winning the award is both confirmation and motivation at the same time: „Time and again in the past we have taken advantage of new opportunities. The award motivates us to continue to do so“.

A glance at the figures also showed the jury that the globally active pharmaceutical service provider is very successful due to its excellent corporate management: In the past ten years, annual sales have more than doubled to around 670 million euros and grown to 5,000 employees. „This success story is based on long-term corporate planning and strategy over decades,” says Senator h.c. Udo J. Vetter, Chairman of the Advisory Board and member of the founding family, sees his work confirmed. „This award is for our Employees“

The Axia Best Managed Companies Award was presented to Vetter in May at a festive, socially distanced, awards ceremony at the pharmaceutical service provider's headquarters in Ravensburg.

Vetter Pharma International GmbH D 88212 Ravensburg



Ein Ansporn, auch in Zukunft das Unternehmen mit strategischem Weitblick und innovativen Ansätzen zu führen: Senator h.c. Udo J. Vetter, Beiratsvorsitzender und Mitglied der Inhaberfamilie (vorne rechts), Vetter-Geschäftsführer Thomas Otto (vorne links) zusammen mit den Deloitte-Vertretern Christian Himmelsbach (hinten links) und Markus Seiz (hinten rechts) bei der Übergabe des Axia Best Managed Companies Awards in Ravensburg. (Bildquelle: Vetter Pharma International GmbH)

Digital service offering proves its worth in the coronavirus crisis

Endress+Hauser has launched Visual Support to assist maintenance personnel remotely

Extraordinary times require extraordinary measures: For this reason, Endress+Hauser has released the Visual Support service application ahead of schedule during the coronavirus crisis. In the acute phase of the pandemic, customers were able to take advantage of the remote audiovisual support free of charge – and were enthusiastic about the possibilities of this innovation in the Endress+Hauser service portfolio.

Endress+Hauser has been driving digitization forward for years – in the product and service area, in customer interaction and in external and internal collaboration. In the coronavirus crisis, the development of powerful digital platforms and offerings has now proven its worth for customers and the company. “We can bridge the physical distance forced upon us by the coronavirus through digital and emotional proximity,” says Matthias Altendorf, CEO of the Endress+Hauser Group.

Service organization uses digital platform

This also applies to the service area. Travel restrictions and protective measures due to the coronavirus pandemic have made it impossible to use external service providers in many cases in recent weeks. In order to carry out critical service work related to instrumentation in a timely and appropriate manner, Endress+Hauser has taken the latest innovation in this area, Visual Support, from the pilot project phase to global rollout.

The Endress+Hauser service organization has been using the possibilities of a cloud-based platform based on the Salesforce customer relationship management system for some time. The Salesforce Service Cloud module enables completely new ways of serving the customer base. Now Endress+Hauser has integrated Visual Support

into its support services portfolio, giving customers access to in-depth technology and product knowledge, including the guaranteed availability and response time from Endress+Hauser’s global network of technical experts.

250 service calls from a distance

The use of this technology for remote support enables audio-visual support for diagnosis and troubleshooting, commissioning and regular maintenance of field devices. With the help of live video transmission and screen casting, Endress+Hauser’s technical support team can work almost as if they were on site, helping customers in a reliable and flexible manner with their service tasks via remote access.

For ten weeks the service was free of charge for customers. During this time, more than 250 Visual Support sessions were conducted worldwide. “Customers have given us a lot of positive feedback,” says Franck Perrin, who heads the Endress+Hauser Group’s service organization. “They are enthusiastic about this new form of support and have experienced how Visual Support can save time and money.”

Endress+Hauser AG
CH 4153 Reinach BL 1



Digital service offering: Endress+Hauser Visual Support helps customers remotely with service tasks.

With the help of live video transmission and screen casting, Endress+Hauser’s technical support team supports customers in a reliable and flexible manner with their service tasks via remote access.

Reine Räume

Reine Prozesse

Digitalisierung

Künstliche Intelligenz

Nachhaltigkeit im Bau

Industrie 4.0

Kritische Infrastruktur

19.-22. Oktober 2020 Dresden und Hamburg

LOUNGES CLEANROOM
PROCESSES

19.-22. Oktober 2020

Digital Days Das interaktive
Online-Live-Event

9.-11. Februar 2021 Karlsruhe

LOUNGES CLEANROOM
PROCESSES

Oktober 2021 Wien

LOUNGES CLEANROOM
PROCESSES

365 Tage im Jahr

 **News Update**

 News Update

inside

Digital Days

LOUNGES
CLEANROOM PROCESSES
HAMBURG-DRESDEN

LOUNGES
CLEANROOM PROCESSES
KARLSRUHE

LOUNGES
CLEANROOM PROCESSES
WIEN

Infos zu allen Veranstaltungen unter

www.expo-lounges.de

MEDICA 2020: The Coronavirus has grabbed the world's attention and increased the focus on good healthcare and modern equipment

16th - 19th November 2020: MEDICA + COMPAMED 2020, Duesseldorf (D)

Globally, no sector has been placed under the magnifying glass more than the healthcare sector due to the Corona pandemic. Hospitals, outpatient clinics, practice-based physicians and care facilities have experienced a sudden increased demand for medical and laboratory technology, a wide variety of medical products, digital health applications and, most of all, personal protective equipment. Under these conditions, the plans for the world's biggest medical trade fair MEDICA 2020 and the number one trade fair for suppliers of the medical technology industry, COMPAMED 2020, held in parallel, are revving up to full throttle. Both events will take place from 16 to 19 November in Düsseldorf – closely interlinked with extensive digital offers and services.

"Despite the planning challenges for both ourselves and our customers, we are still expecting huge participation in MEDICA and COMPAMED. This underscores the urgent need for a strong market platform to steer supply and demand internationally", explains Wolfram Diener, Operative Managing Director at Messe Düsseldorf. "The stimulus that these events elicit is massively important for the industry. A stage has been created so that the companies can present their latest products and services. Professional visitors from all areas of the healthcare industry need direction and a comprehensive overview of reliable, quickly available supplier options and business partner alternatives; this is the case now more than ever," continues Wolfram Diener.

No other event in the world looks at the complete needs of the outpatient and inpatient care sectors with as much differentiation as

ours. MEDICA and its focal segments aren't afraid to take on this challenge: Medical technology and electromedicine, commodities and consumables, laboratory technology and diagnostics, physiotherapy and orthopaedic technology and Health IT/information and communication technology.

The right formats for matchmaking service providers

The programme plan for MEDICA 2020 and COMPAMED 2020 has created a space to accommodate the increased demand for an effective matchmaking service from service providers, who specifically want to match with other manufacturers and service providers across different countries, throughout the entire value-added chain and including the supplier sector.

In particular, we can expect cooperations between start-ups and bigger market players to become more and more significant in the future. This applies, for example, to the mobile digital healthcare solutions that are trending at the moment, which have been cornerstones for providing quick and contactless (as far as possible) care during the Corona pandemic and will surely continue to grow in significance. "When a creative product idea from a start-up is combined with expertise in how to procure approvals and marketing power of a large supplier, we have a win-win situation for both sides. This is why the MEDICA START-UP PARK and the pitching formats of our theme forums integrated into the trade fair halls have met with resounding appro-



Wolfram Diener

MEDICA 2020

val. This is the place that brings business partners together and gets joint projects off the ground", states Dr. Claudio Bucchi, Senior Project Manager and Trend Scout for the MEDICA Team at Messe Düsseldorf.

Further forums integrated into the theme segments of the trade fair are the MEDICA HEALTH IT FORUM, the MEDICA TECH FORUM, the MEDICA LABMED FORUM as well as the MEDICA ECON FORUM.

The MEDICA conference programme is oriented towards the interests of important target groups within the healthcare industry and will also reflect the trending themes in the market in terms of its content, taking the impact of the relevant Covid-19 developments into consideration. The 43rd German Hospital Conference, as the leading event for the directors and management teams of German hospitals, and, in addition, two English-speaking conferences which address an international audience should be mentioned here: DIMIMED, the Conference on Disaster and Military Medicine, and the MEDICA MEDICINE + SPORTS CONFERENCE for the who's who of sports medicine and science.

An optimistic mood among suppliers at COMPAMED

Within the scope of COMPAMED 2020, suppliers of the medical technology industry are showcasing themselves along with their

development and manufacturing expertise. Despite the significant ramifications that Covid-19 has had on the global economy, on the whole they believe that the future is bright. According to a member survey carried out by the IVAM Association for Microtechnology, 90% of the companies believe that there will be opportunities for new applications of their technology in medical technology and the healthcare industry following the pandemic. This is because in critical situations such as the one we're currently in, sensors for ventilation equipment and medical measuring technology are needed, to give two examples, in addition to miniaturised and mobile systems for fast diagnostics, according to the IVAM. Miniaturised components and procedures in digitalisation are also trending currently. They are the key to ultra-precision manufacturing and also build the foundations for the lightweight, wearable and linked devices that are experiencing even greater demand than before during the Corona period.

MEDICA and COMPAMED brought in a total of 121,369 visitors and over 6,000 exhibitors in 2019.

Messe Düsseldorf GmbH
D 40001 Düsseldorf

PaintExpo 2020 will Take Place

8th World's Leading Trade Fair for Industrial Coating Technologies in Karlsruhe (Germany) from 12 to 15 October 2020

All signs indicate that PaintExpo will take place this year. The world's leading trade fair for industrial coating technologies will be held at the Karlsruhe Exhibition Centre with more than 500 national and international exhibitors from the 12th through the 15th of October, 2020. A comprehensive hygiene concept will ensure best possible safety for exhibitors and visitors. PaintExpo's exhibition portfolio presents the world's most extensive range of solutions for adapting wet painting, powder coating and coil coating processes to current requirements and aligning them to the future.

Thanks to the relaxation of corona restrictions and positive developments in recent weeks, the trade fair organisers are now firmly planning to hold PaintExpo from 12 to 15 October 2020. "Some of the exhibitors have had to cancel due to scheduling conflicts arising as a result of the postponement from April to October, but more than 500 exhibiting companies from Germany and abroad will be represented in Karlsruhe," reports Jürgen Haußmann, managing director of private trade fair promoters FairFair GmbH. "We're very pleased that planning security has once again been established for exhibitors and visitors, as well as for our business partners."

The trade fair organiser and his team are confident that they're well prepared for the event. Together with Messe Karlsruhe, as well as the relevant state and local authorities, a comprehensive hygiene and safety concept is being developed in order to provide exhibitors and visitors with best possible health protection, which can be updated to accommodate current conditions at any time. "Amongst other things, the concept ensures that even on busy days at least four square metres of floor space are available per visitor," adds Jürgen Haußmann. Further aspects include strictly online ticket sales, as well as online redemption and registration of admission coupons. "In accordance

with the security concept, box office ticket sales will not be offered," comments the event organiser.

Complete Range of Solutions for Future-Oriented Painting

The range of products and services offered by the exhibitors covers the entire process chain for liquid painting, powder coating and coil coating. Focal topics include, to mention just a few, the digital transformation, automation solutions and simplified robot programming, more efficient use of energy and resources, as well as the metallization of surfaces. And thus the globally leading trade fair makes it possible for job-shop coaters and companies with in-house coating operations from all industry sectors to gather targeted information about new developments, trends and technologies for coating components and substrates made of any material. At the same time, the world's leading trade fair is the ideal opportunity for exchanging information and networking – for example in order to firm up fragile supply chains and make them more sustainable.

FairFair GmbH D 72644 Oberboihingen

Fakuma 2020: Implementation of the Digital Transformation

Expert visitors will gain an overview of all modern plastics technologies from 13 to 17 October 2020 when roughly 2000 exhibitors present their companies in Friedrichshafen at the 27th Fakuma international trade fair for plastics processing. From injection moulding – a field in which Fakuma occupies a leading position worldwide – right on up to extrusion technology, thermoforming and 3D printing, expert visitors will be provided with current information on processes, technologies and tooling covering all aspects of plastics processing.

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

As an industry and technology barometer for injection moulding, Fakuma is the first port of call where innovations involving materials, machines, peripherals, processes and simulation are concerned. Visitors are provided with a comprehensive overview of all plastics technologies: injection moulding, extrusion technology, thermoforming and 3D printing. As a working event for established practitioners, Fakuma is consistently aligned to the process sequence in the field of plastics processing. Exhibitors and expert visitors are able to discuss concrete projects directly with each other on an equal footing.

International and Networked

Fakuma will occupy all available hall space in the modern exhibition centre on Lake Constance. 1933 exhibitors from 40 countries and nearly 48,000 expert visitors from 126 nations came to Lake Constance in 2018. Trade fair promoters P. E. Schall GmbH &

Co. KG have announced that the world's leading technical event for injection moulding will be even more international in 2020. All leading companies in the field of industrial plastics processing will meet here for an exchange of technical ideas and experience.

Digitalisation, connectivity, extended process integration and system solutions for equipment and peripherals have arrived at the plastics processing machines as well: to an ever greater extent, numerous options which up until recently were still in the planning stages, or only existed as visions or in theory with regard to the digital transformation, will be implemented and rendered tangible as factual reality at Fakuma 2020.

Continuous Improvement of Trade Fair Waste Disposal Concept

Fakuma's waste disposal concept is relentlessly evolving into the future as well. "We're constantly developing our waste dis-

posal concept in order to achieve the highest possible recycling rate," says Gebhard Witt, head of Logistics & Service at Messe Friedrichshafen. At Fakuma, attention is focused above all on recycling the granulates and moulded parts produced at the event. "We were able to achieve a recycling quota of over 90% at the last Fakuma," according to Witt. Due to the fact that best possible pre-fractionation takes place on site when trade fair waste is collected, the requirements specified by the Recycling Management Act can be easily met. Messe Friedrichshafen examines sustainability potential on an ongoing basis too, for example by monitoring and controlling water and energy consumption.

Efficient Use of Resources, Sustainability, Environmental Protection

Of course Fakuma also deals with the issues of environmental protection, sustainability, efficient use of resources and circular economy. Climate concerns, difficult plastic waste situations and the negative image of plastics are promoting the need to implement economical and gentle production processes and to implement effective, broad-ranging recycling management. It will only be possible to master the plastic waste problem at the global level by means of higher recycling rates and improved efficiency in waste management. Factual clarification and a differentiated discussion with all parties involved in the value chain is necessary in this regard. Fakuma 2020 will be a highly interesting and indispensable platform which provides information concerning technology trends for environmentally compatible production, the use of recyclates and more efficient injection moulding processes.



POWTECH launches as special edition in Nuremberg in 2020

In the light of the global impacts of the COVID-19 crisis and following close consultation with exhibitors and visitors, POWTECH has set the stage for the leading event for the powder, bulk solids and mechanical engineering sector. The concept for the "POWTECH Special Edition" that will now take place in Nuremberg from 30 September to 1 October this year provides a compact yet attractive alternative event format adapted to the current circumstances. The organiser NürnbergMesse is resolutely implementing the outcomes of its exhibitor and visitor survey by enabling the industry to access a dialogue and business platform before the end of the year.

30th September - 01st October 2020: POWTECH 2020, Special Edition in Nuremberg (D)

"POWTECH visitors and exhibitors wanted to have a platform for dialogue this year, despite or precisely because of all the upheavals," says Beate Fischer, Director of POWTECH at NürnbergMesse, summing up the results of a survey of all registered exhibitors and visitors from POWTECH 2019. "At the same time it was clear that the basis for conducting POWTECH as a major international trade fair this year was lacking. Our concept for the POWTECH Special Edition takes both these aspects into account. We are creating a compact event with a distinct focus on technical presentations and targeted dialogue. The POWTECH Special Edition will bring the necessary safety and required utility value under one roof."

POWTECH Special Edition: specialist forums and exhibition

The centrepiece of the POWTECH Special

Edition will be the expert forums that will take place in two exhibition halls in compliance with all safety regulations. For visitors from the pharmaceutical and food industries, the Life Sciences Forum is the first port of call. In partnership with the APV (International Association for Pharmaceutical Technology), the forum offers high-calibre presentations on process engineering innovations relevant to pharmaceutical and food production. Another forum will address questions and solutions from POWTECH sectors like chemicals, recycling, building and non-metallic minerals, and will also explore overarching trends. The presentations will be recorded for an online audience and international speakers can be live-streamed into the exhibition halls.

The accompanying exhibition gives all exhibitors the chance to present their innovations efficiently and attractively. If you want to do this we have a standard fixed exhibition stand concept that already takes account

of all the necessary and hygiene and safety standards and can be booked "ready to use" at attractive rates. In addition, the POWTECH Special Edition provides sufficient space and meeting points for professional discussions under ideal safety conditions.

POWTECH Special Edition accompanied by online content

To also build a bridge to its expert international audience in these times of travel restrictions, the POWTECH organisers are increasing the online content of the exhibition alongside their preparations for the event in Nuremberg. The webinar series POWTECH Virtual Talks has already been running since April and some of the supporting programme for POWTECH Special Edition will also be available online. "With the POWTECH Special Edition, our online content on www.powtech.de and last but not least, our international POWTECH World events, we are providing a service as the "No. 1 dialogue platform" for the powder and bulk solids community even in these difficult times, as we continue to bring together knowledge, technology and experts worldwide," says Beate Fischer.

Registration and save the date 2022

Interested exhibitors can register immediately for the POWTECH Special Edition at www.powtech.de/en/special-edition. The next POWTECH in combination with the particle technology congress PARTEC 2022 will take place as scheduled at Exhibition Centre Nuremberg from 26 to 28 April 2022.



Chillventa will resume in Nuremberg in 2022, with a virtual event in 2020

In view of the ongoing coronavirus pandemic and its effects on the global economy, NürnbergMesse has decided in agreement with the Exhibition Advisory Board not to hold Chillventa 2020. "This wasn't an easy decision," says Petra Wolf, Member of the Management Board of NürnbergMesse. "To gauge the mood of the industry, we carried out an extensive survey of the more than 800 exhibitors from around the world who registered for 2020 and all the visitors who attended Chillventa 2018. The results informed our decision to cancel Chillventa for this year," she adds.

11th - 13th October 2020: CHILLVENTA 2020, Nuremberg (D)

The organizers also advise that they are exploring options for digitalizing parts of Chillventa, using the original date this coming autumn. "The many discussions we have had in recent weeks have shown us that, given the unusual circumstances this year, our customers would still like the opportunity to interact, and they need to learn about new products, even if they can't attend in person," Petra Wolf, Member of the Management Board of NürnbergMesse, observes. "We are therefore pulling out all the stops to offer a platform we can use to hold the Chillventa CONGRESS, for example, or the trade forums or the product presentations in a virtual format, so we can satisfy the need to share knowledge and provide a dialogue with experts for experts. Be sure to keep the original dates open in your diary. It will be worth while, since this will be the first time the refrigeration, AC, ventilation and heat pump community has met on the web," Wolf adds.

Surveys on Chillventa reveal strong commitment

The strong level of commitment and participation in the Chillventa surveys was extraordinary. As the leading international

exhibition for refrigeration technology, Chillventa enjoys huge support from exhibitors and trade visitors alike. But the survey also revealed that concerns about holding the event this year were too great. Reasons include the current global uncertainty, which also affects the refrigeration, AC, ventilation and heat pump industry, and is dampening investor enthusiasm, causing revenue losses and interrupting production. At the same time, limited business activities due to government regulations and international travel restrictions are making it more difficult for trade fair participants in many locations to plan and prepare their attendance at events such as this.

"We are very grateful for the many candid and constructive conversations we have had with our exhibitors, professional associations and the Exhibition Advisory Board in recent weeks, all of which have helped us with our decision-making process. The most important consideration for us is not to hold any event against the wishes of the industry. Chillventa is the cornerstone of the international refrigeration, air-conditioning, ventilation and heat pump community, and that's how we want it to continue. We believe it is important for it to maintain its character as the world's leading exhibition for refrige-

ration technology. In the context of the Covid-19 pandemic, travel restrictions and the current international economic situation, we assume that if we held Chillventa this year, it would not be the success our customers would prefer. Even if, as could be expected, the situation is different in October, now is the right time for us to cancel and enable our customers to plan with more certainty," Wolf continues.

In times of crisis, in particular, it is increasingly clear that being able to meet in person, to learn and to interact are basic human needs. In the future, leading international exhibitions like Chillventa will again be there to provide guidance for all industry players, and will remain platforms for business success. "From the outset, Chillventa has enjoyed an extremely high level of international participation – about 70 percent in the case of exhibitors and about 60 percent for its visitors. This year, we would be unlikely to achieve the level of international participation that's important to both our exhibitors and trade visitors, considering the current international travel restrictions and the economic situation as a whole. So by deciding not to hold the exhibition again for a further two years, we are lining up for a successful Chillventa at the Nuremberg exhibition venue in 2022. But before then, we will meet in a virtual space at the usual time this year. We're looking forward to seeing you," comments Daniela Heinkel, Exhibition Director Chillventa.

Save the date

Chillventa will resume its normal sequence on 11-13 October 2022. The Chillventa CONGRESS will begin the day before, on 10 October.



Wolf, Petra, NuernbergMesse



Heinkel, Daniela, NuernbergMesse

A+A 2021: Together into the Future of Work

- Leading trade fair with congress for health and safety at work
- Registrations open for exhibitors
- 26 to 29 October in Düsseldorf

The starting pistol has been fired – exhibitors can apply for A+A 2021 as of now. The leading international Trade Fair and Congress for Safety, Security and Health at Work will be held in Düsseldorf from 26 to 29 October 2021.

26th - 29th October 2021: A+A 2021, Duesseldorf (D)

New technologies, rising flexibility and requirements: changes in the working world are moving both employers and employees. How can companies protect their staff while keeping production up and running in times of crises? How can we also be healthy and efficient when teleworking? "Safe and healthy working environments can save lives but they also decisively contribute to competitiveness and productivity," explains Birgit Horn, Director of A+A and adds: "The Corona pandemic has once again clearly demonstrated that employers benefit from investment in occupational health and safety."

Innovative products, solutions and concepts revolving around safe and healthy workplaces are presented by the exhibitors at the leading international trade fair A+A in Düsseldorf every two years – from personal protective equipment and concepts for company fire protection, environmental protection and disaster relief to exhibits for ergonomic and healthy workplace design. With immediate effect exhibitors will be able to apply online for the next edition 2021 at aplusa.de. The allocation of hall space will start in early October and follow the three focal themes of "Personal Protection", "Security at Work" and "Health at Work".

Science and Current Trends in one Place

The industry has started preparing for the event and is full of anticipation for face-to-face exchange. "If the Corona pandemic has changed one thing for sure, then it is the way the live-saving products of PPE manufacturers are seen today. During the crisis these long-es-

tablished companies have given, and still give proof, of their high operational excellence and flexibility. A sector of industry previously not used to being in the limelight, has rightly gained more attention. The demand for high-quality equipment has gone up enormously. Needless to say, the industry is therefore all the more looking forward to showcasing its products and new developments, to having personal exchange and serving newly found customers at A+A," says Thomas Lange, Deputy Chairman and Managing Director of the Interessenverband persönliche Schutzausrüstung e.V. (Interest Group for Personal Protective Equipment IVPS).

Held in parallel with the trade fair will be the 37th International Congress for Occupational Health and Occupational Medicine – organised by Basi, Bundesgemeinschaft für Sicherheit und Gesundheit bei der Arbeit (the German Federal Association for Occupational Safety and Health). Germany's leading expert event on health & safety provides a comprehensive overview of scientific findings as well as ample room for dialogue between experts and policy makers and business. "The safe and healthy design of mobility, mobile working and teleworking, will be our themes as much as sustainable occupational safety in supply chains. Inclusion and demographic change in the working world are other important aspects," explains Dr. Christian Felten, Director of Basi. "In doing so we will also particularly target those who always have to be on site and cannot exchange their workplace for teleworking." Dr. Felten also considers it crucial how the many possibilities offered by digitalization and artificial intelligence are used for innovative protection concepts for all employees at work.

On top of this, forums, special shows and live presentations will enhance the programme of A+A. "We will focus on learning through experiencing in 2021, too. Alongside the trending themes of digitalisation and sustainability our focus will also be on company-specific corporate fashion in this context," says Birgit Horn and continues: "With matching apparel companies can strengthen the "community feel" internally and bring it to bear externally."

A+A is held in Düsseldorf every two years. For years the number of exhibitors and visitors at this leading international trade fair for Safety and Health at Work has been rising constantly. The event in 2019 registered more than 73,000 visitors, over 2,100 exhibitors from 63 countries. In excess of 90% of the exhibitors were satisfied with their trade fair participation, 82% are planning to repeat their participation in 2021. And exhibitor registrations for the coming A+A are, in fact, already coming in fast.



Le SINDEX est reporté et se déroulera du 31 août au 2 septembre 2021

En raison de la précarité de la situation actuelle, le GROUPE BERNEXPO reporte le SINDEX 2020 à l'automne 2021. Avec cette décision, le GROUPE BERNEXPO donne la priorité à la santé ainsi qu'aux intérêts et besoins économiques des exposants, des visiteurs, des partenaires et des collaborateurs.

31st August - 02nd September 2021: SINDEX, Bern (CH)

Avec le SINDEX, le GROUPE BERNEXPO reporte un nouveau salon professionnel qui devait avoir lieu en septembre à l'année prochaine. La situation actuelle et les prévisions à court et à moyen terme représentent un défi pour une grande partie des marchés et l'ensemble de l'industrie. Dans ces conditions, il est impossible de remplir les attentes des exposants, des visiteurs et des autres partenaires envers le SINDEX en termes de qualité, de professionnalisme et d'attractivité ainsi que les exigences du GROUPE BERNEXPO en tant qu'organisateur.

Au cours des derniers mois, l'équipe du SINDEX a travaillé sur plusieurs scénarios en collaboration avec les partenaires ainsi qu'avec les membres du board stratégique. Les enquêtes menées auprès des exposants, des personnes intéressées et des partenaires ont mis en lumière le grand intérêt, l'importance et la nécessité de reporter le SINDEX. Indépendamment des directives des autorités liées au COVID-19,

le GROUPE BERNEXPO a décidé de reporter le SINDEX du 31 août au 2 septembre 2021. Le rythme biennal est conservé, mais il est décalé sur les années impaires (2021, 2023, 2025). Cette décision apporte de la clarté et permet à toutes les parties prenantes de planifier en sécurité.

Le salon Com-Ex pour les infrastructures de communication, prévu en même temps que le SINDEX en 2020, sera également reporté en septembre 2021. Ce déroulement parallèle en 2021 créera des synergies en matière d'organisation et de contenu, qui offriront une valeur ajoutée attrayante tant pour les exposants que pour les visiteurs.

Le GROUPE BERNEXPO est convaincu que le SINDEX sortira finalement plus fort de la crise actuelle et qu'il présentera une performance réussie en 2021.

BERNEXPO AG CH 3000 Bern 22



The ASM 306 S helium and hydrogen sniffer leak detector for easy and accurate full-time sniffing operations

- Ultra-fast and accurate helium and hydrogen sniffer leak detector
- Designed for continuous use on production lines requiring high performance and rugged, reliable operation
- Features an ergonomic, high-flow sniffer probe

Pfeiffer Vacuum is one of the world's leading providers of vacuum and leak testing solutions. To complete the leak detection product portfolio, Pfeiffer Vacuum presents a breakthrough unit, ASM 306 S, addressing any industrial sniffing applications, especially refrigeration and air conditioning. This new product stands for high sensitivity (10⁻⁷ mbar l/s) as well as precise and accurate measurements.

Leakage control using sniffing measurements before the final refrigerant gas charge, is one of the last steps of the production process. This requires the highest testing reliability to increase productivity and quality levels. The ASM 306 S helps to meet those challenges. The product combines the advantages of a proven technology regarding sensitivity, accuracy and repeatability. The ASM 306 S has been designed to offer fast and repeatable measurements, whether helium or hydrogen is used as tracer gas. This unit offers the fastest recovery in case of big leaks to maximize uptime.

Co-designed with the user in mind, the ergonomics of the sniffer

probe has been a major focus allowing the operator to be able to hold the sniffer probe during their entire working shift. The high flow probe will help to pinpoint leaks easily without missing any of them. The probe is available with various hose lengths to easily adapt to any application and cables can be exchanged independently from the probe itself. Specific attention has been placed on the robustness of the complete ASM 306 S, including the probe and its cable, to provide a full-time sniffing unit with low cost of ownership. The main display of the ASM 306 S offers easy readability with its 7-inch size, fully tactile and high-resolution screen. With the test information visible directly on the probe for easy visual management, thanks to color LEDs lighting up in real time in accordance to the display, operators can focus on test parts.

Pfeiffer Vacuum GmbH
D 35614 Asslar



Safe installation and commissioning of diaphragm valves with GEMÜ PPF multifunction adapters

GEMÜ PPF (Pressure, Passivation, Flushing) multifunction adapters can be used to prevent the penetration of foreign particles when installing diaphragm valves, resulting in enormous cost savings.

It is a basic fact that all installation work involving piping, such as the installation of valves, poses a risk of contamination. The entry of foreign matter or contaminants into piping systems can lead to the need to discard an entire batch of medicine, which can have a sub-

stantial impact on business. Even more serious, however, is the risk of contamination not being detected in time which could lead to patients being harmed.

Apart from the human risk, there is the added economic risk that foreign matter can cause plant components such as pumps and heat exchangers to become blocked or even damaged, resulting in interruptions to the process and impacting scheduling.

With static GEMÜ PPF (Pressure, Passivation, Flushing) multifunction adapters in 1.4435 stainless steel, the penetration of foreign particles during the installation of diaphragm valves is prevented. Immediately following disassembly of the actuator and diaphragm, the adapter is mounted on the valve body, thereby offering protection for the seat. The GEMÜ PPF must be removed after installation is complete but before sterilization of the plant. The sealing over the weir and to the outside is created by an EPDM seal, which is approved according to FDA and USP Class VI. The fixing method, as we know from diaphragm valves, uses four screws, or for a diaphragm size 100, eight screws. After the multifunction adapter has been mounted on the valve body, this can be used as a weld gas pipeline for welding the body. The subsequent introduction or conveying of the passivation media to protect the surface against corrosion can also be performed via an adapter.

For an endoscopic examination, a camera can be introduced into the piping system via the GEMÜ PPF connections, just as a tube can be connected for flushing. Because the adapter is constructed using the full spigot diameter, this design enables an optimal rinsing process. This can take place in both flow directions. A final pressure test can be performed with GEMÜ PPF up to an operating pressure of 16 bar.

The reusable multifunction adapters have been designed for various membrane sizes and are available from diaphragm sizes MG 8 to MG 100. This enables GEMÜ to offer a safe, convenient solution to prevent contamination or the penetration of foreign matter when installing valves in piping.



Multifunktionsadapter GEMÜ PPF

GEMÜ GmbH
CH 6343 Rotkreuz

Impressum:

cleanroom online / W.A. Schuster GmbH · Mozartstrasse 45 · D 70180 Stuttgart · Tel. +49 711 9 64 03 50 · Fax +49 711 9 64 03 66
info@reinraum.de · www.cleanroom-online.de · GF Dipl.-Designer Reinhold Schuster · Stgt, HRB 14111 · VAT DE 147811997

Original texts and images

The contributions mentioned by name are the responsibility of the particular author. Reprinting, also of extracts, are permitted only with the approval of the editor and with reference to the source. The publisher does not accept any responsibility for unsolicited manuscripts and illustrations. The publisher is granted the exclusive, spatial, temporal and contentual limited right to freely use the article in unchanged or edited form for all purposes as often as desired or to transfer it to third parties for use. This right of use relates to print and electric media (Internet, databases, data carriers of all kinds).