

# NEWS++++

ALL THE LATEST OF THE WORLD OF SCHÜTZ | ISSUE 1 – 2016



## SUPERIOR STIRRING WITH THE SCHÜTZ IMPELLER

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## ECONOMICAL ADVANTAGES AND SIGNIFICANT RISK REDUCTION –

# SUPERIOR STIRRING WITH THE SCHÜTZ IMPELLER

Siegwerk Druckfarben tested our IMPELLER with their highly viscous media. The IMPELLER convinced the testers with a top performance, great stirring results and super-fast stirring times.

Highly viscous products such as paints and coatings require packaging that fulfills very high standards in the supply chain, requirements that go far beyond just good residual drainability. Often, these products need to be stirred in order to ensure easy discharge and optimum processability. With conventional packaging and processes, this step can present a significant contamination risk. The packaging may have to be opened several times. Agitators have to be inserted and removed again during which it is extremely difficult to avoid the outside of the packaging from becoming

soiled and very often the filling product itself is contaminated with particles, which has far more serious implications for product purity and performance. Using the same agitator for different filling products further increases the risk of spoiling the product. Inadequate cleaning or the residues of previous products on multiple-use stirrers can soon result in the following application becoming significantly contaminated.



SCHÜTZ  
**IMPELLER**

In autumn 2015, at FachPack, we presented a revolutionary packaging concept for highly viscous filling products that provides decisive process advantages: the ECOBULK with the IMPELLER – a single-use stirrer developed by SCHÜTZ which allows the packaging to remain closed along the entire supply chain, from filling to discharge, and which still enables the filling product to be stirred with the greatest of ease and very effectively. This new product means that there is no need for conventional stirrers and the danger

of contamination is significantly reduced. The system is available for all 1,000 and 1,250 litre ECOBULK types with DN 150 and DN 225 filling openings. One of SCHÜTZ's long-standing customers agreed to test the IMPELLER in a tough practical trial.

For over ten years, Siegwerk Druckfarben AG & Co. KGaA, a manufacturer of printing inks, has been using a range of our different IBC models to transport and store their products. The origins of

the family-owned company, which has headquarters in Siegen, go back as far as 1824. Originally founded as a goods manufacturer, the business very soon also included a factory which also dyed and printed calico. The company rapidly acquired considerable expertise in a variety of printing processes. Siegwerk is now a leading international manufacturer of printing inks for packaging, labels and catalogues, and employs around 4,900 people in more than 30 subsidiaries worldwide.

### HX + IMPELLER: A DREAM TEAM FOR HIGHLY VISCOUS MEDIA

Siegwerk was seeking solutions that would allow viscous products to be processed with greater efficiency. "At a trade show our attention was drawn to the special design of the ECOBULK HX and SCHÜTZ's newly developed IMPELLER," said Jörg Kortholt, Production Supervisor for Packaging Printing Inks at Siegwerk. The single-use stirrer is connected to the screw cap of the IBC and is pre-inserted in the filling hole during manufacturing. Depending on the filling process and the container configuration, the stirrer is either briefly removed or remains in place. Existing agitator drives can be easily and quickly attached without requiring significant modification or adaptation. The drive is

placed above the cap and is fixed in place on the steel cage with the aid of a frame. The drive shaft locks into the bung of the screw cap which transmits the rotation via fixed rods to the IMPELLER inside the container. "The

### The combination of both products is intended to simplify the handling of this highly viscous product.

combination of both products is intended to simplify the handling of highly viscous media," said Jörg Kortholt. To test the advantages of

the closed packaging system in a practical setting we worked together to set up a stirring test – using one of Siegwerk's most critical products.

ECOBULK  
**HX**



**OPTIMUM  
PROCESS SUPPORT**



**COMPREHENSIVE  
QUALITY PROTECTION**



**SUPERIOR  
COST-EFFECTIVENESS**



**NO ADMINISTRATION  
REQUIRED**

## TESTING THE SYSTEM WITH A HIGHLY VISCOUS FILLING PRODUCT

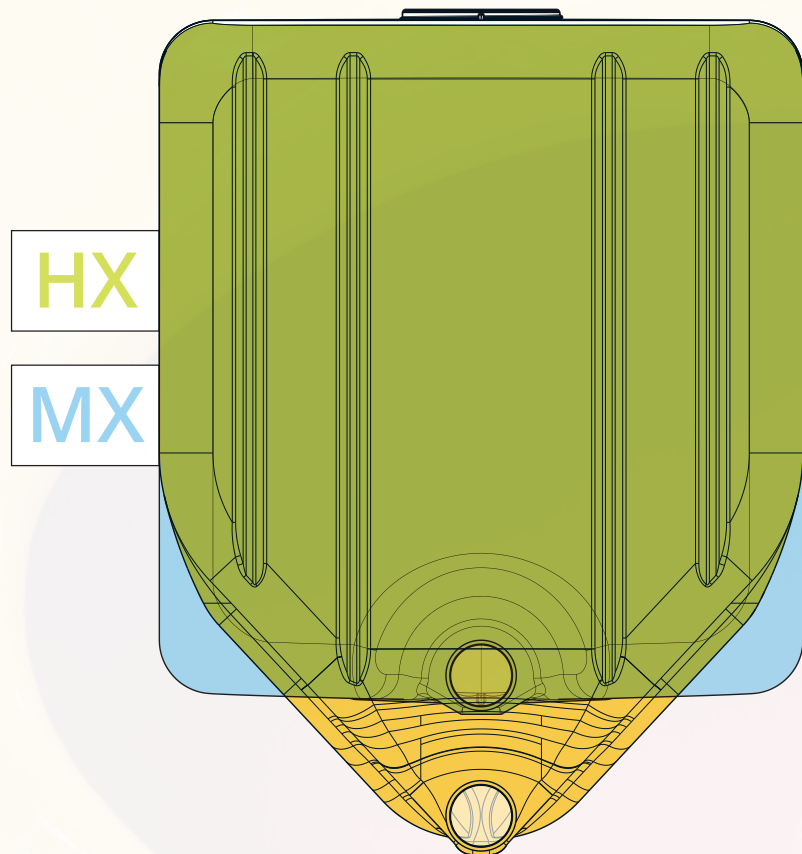
The experts started by filling one of our HX containers two-thirds with a total of 650 kilograms of a very viscous intermediate product. The contents were left for roughly two days to settle, which resulted in a substantial change in the material consistency and a significant increase in viscosity. The viscosity exceeded 10,000 mPas, which made it impossible to discharge the product through the outlet valve. Stirring allows the viscosity to be reduced to around 2,000 mPas. Products with this property are called thixotropic. Our IMPELLER was used to stir the product: its rotation speed was set to 140 revolutions per minute. After ten minutes of stirring the test supervisor opened the tap again: within 30 seconds around 60 kilograms of product flowed out of the valve. After stirring for 30 minutes the filling product was liquid and flowed out of the container at a speed of 186 kilograms per minute. At this point, the surface of the product in the container was still very thick.

As the product was discharged from the container the filling level gradually sank, and after a short time the surface could also be stirred and became fluid. When the filling level sank to the top edge of the IMPELLER wings, the speed was reduced. This allows the position of the IMPELLER wings to be adapted according to how much product remains inside the container, thus ensuring consistently good stirring results whatever the filling level. Heinz-Peter Martin, Sales Manager IBC at SCHÜTZ, was highly satisfied: "Continuing the stirring process with

residual contents of 80 kilograms until the container was almost completely empty also gave very satisfactory results."

After the last drops had dripped out, a residual quantity of around five kilograms collected in the bottom of the IBC. "This residual product had collected here from the walls and corners. As the conical shape of the HX inner bottle supports this process it was easy to complete emptying within a short period of time," explained Martin.

## THE TWO SCHÜTZ IBC INNER BOTTLES IN COMPARISON







## DOWN TO THE VERY LAST DROP

Conclusion: using the SCHÜTZ IMPELLER, even a highly thixotropic product such as the test material can be made fluid again inside the IBC at low filling levels after only a short stirring period, thus allowing the product to discharge freely through the outlet tap. The IMPELLER took roughly 35 minutes to completely liquefy the entire contents of 650 kg with an energy application of 1.8 kilowatts at 200 revolutions per minute. The new container geometry of the ECOBULK HX with a sloping bottle, a closed, stable supporting cushion, optimised outlet geometry and a low-lying discharge tap enables excellent residual emptying, even for viscous filling products. "This system is very attractive for us. With these positive initial results we intend to test several other product groups, too," said Stefan Rzymann, Project Manager Local Engineering at Siegwerk.

### During stirring inside the ECOBULK HX the container's geometry ensures optimum residual emptying.

As well as efficiency, the new system also generates considerable cost savings. According to the industry association VdL, the total annual production in the medium-sized coating and printing ink sector in Germany is 2.5 million tons. This volume makes it instantly clear that unused residues in containers translate directly into economic losses, as the high-quality product that remains in the container cannot be used. In direct comparison with stainless steel systems, which until now have been used almost exclusively in this application, the ECOBULK HX offers numerous advantages: as well as a lower cost of acquisition, there are no other expenses, for example for cleaning, repairs, collection logistics and the legally required intermediate inspections for stainless steel IBCs. The HX is simply collected and reconditioned using the SCHÜTZ TICKET SERVICE. Another cost factor is the time that is saved by using the IMPELLER: the faster the filling product is liquefied by stirring, the quicker it can be used.



#### CONTAMINATION-FREE STIRRING

IBCs with an IMPELLER are a closed packaging system. After filling, the IBC can remain closed and sealed during the entire supply chain until the product is used – including during the stirring process. The single-use IMPELLER completely eliminates the risk of contamination due to product residues on the agitator and hence significantly increases process safety.

There is also no need for time-consuming cleaning, which generates further savings. The entire component is made of HDPE, so that the filling product does not come into contact with steel, a further advantage that ensures full product hygiene. Empty IBCs including the impeller are collected by the SCHÜTZ TICKET SERVICE; as part of the reconditioning process, the inner bottle and impeller are recycled into HDPE granulate. The recycled material is used again in our products, for instance as plastic pallets, thus helping to protect the environment.

The IBC can remain closed and sealed during the entire supply chain until the product is used.



**SCHÜTZ**  
PACKAGING SYSTEMS

## LATEST NEWS 2016

**MALAYSIA INTERNATIONAL FOOD & BEVERAGE  
KUALA LUMPUR (MY)  
JUNE 27 – 29, 2016  
HALL/BOOTH 1-2/A022**

**FACHPACK  
NUREMBERG (D)  
SEPTEMBER 27 – 29, 2016  
HALL/BOOTH 6/357**



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# OPTIMISED LOGISTICS PROCESSES IN BENELUX

Our factory in Moerdijk is expanding by adding a 7,500-square-metre area on the factory grounds as a storage site for new swap bodies.

SCHÜTZ Benelux is located very conveniently between the region's two major cities, which are also Europe's biggest harbours: Rotterdam and Antwerp. From here, we supply the Benelux countries with the entire range of SCHÜTZ products – from drums to IBCs.

Linking up this site allows us to increase the logistics and production capacity of the entire facility. The priority of the project was to optimise the integration of the swap bodies/trailers into production, and to further increase working safety. The wide parking positions mean that the 50 trailers or 100 swap bodies have more room to manoeuvre. Additionally, loaded and empty swap bodies are kept in separate areas of the new site. This makes the trucks much faster and

more efficient, with the added advantage that shorter routes mean lower CO<sub>2</sub> emissions.

The convincing logistical advantages of the new site have led to plans to widen the existing parking positions over the course of the year and integrate them in the new transport system.





# NO WORRIES WITH AIRCONOMY®: SYSTEM AND SERVICE COMPE- TENCE FROM A SINGLE SOURCE

Cosy heating, controlled ventilation and cooling as needed – our AIRCONOMY® system fulfils a wide range of needs in modern buildings with a single, innovative system. Now, we have responded to the rising demand for the system by launching a new AIRCONOMY® Installation Team, which allows us to cover the entire range of services from planning to commissioning and maintenance.

Today's building projects are becoming increasingly more complex and all the different trades involved need to be included in planning process as early as possible and carefully coordinated as the project progresses. At the same time, the standards set for energy efficiency, noise protection and hygiene in buildings are rising. It follows that many clients want a full solution from a single source. Our ability to offer heat, ventilation and cooling in a complete service package has always been warmly welcomed and greatly appreciated. Now, we are further complementing this system package with our AIRCONOMY®

**We are further complementing this system package with our AIRCONOMY® installation teams.**

installation teams. This new service gives planners and builders the peace of mind of knowing that the installation experts will be there exactly when they're needed. We can rely on seasoned, coordinated teams whose high degree of installation competence provides efficiency and quality. Last, but certainly not least, the engineers wear AIRCONOMY® team colours, thus adding to the brand recognition and positive image of AIRCONOMY®.



# OUR AIRCONOMY® SYSTEM PACKAGE



## 1 Installation briefing

The **proven AIRCONOMY® modular system allows swift and easy installation.** The AIRCONOMY® team is on hand to support the engineers during the initial projects if required.

## 4 Technical advice

Highly qualified engineers are on hand to provide **individual technical advice**, and will provide on-site support as required. **Developing special solutions** is one of our great strengths.

## 2 Commissioning

The system is set up and commissioned by the **AIRCONOMY® service team.** The air volumes are set and **all functions are checked** in the final stage of the service package.

## 5 Delivery to the site

AIRCONOMY® is also a strong partner when it comes to construction site logistics: from **loaded swap bodies** at the site all the way through to an **express delivery service** direct to the site for essential spare parts – you can depend on us to ensure everything runs smoothly.

## 3 Installation teams

To complete our services we have also offered an installation service since 2015. Our specially trained, expert **AIRCONOMY® installation teams** handle on-site installation for us. Their high level of expertise enhances the efficiency and quality of the installation.

## 6 Maintenance

After the installation has been completed and the system is up and running we can provide on-going **system maintenance:** from filter changing, inspections, cleaning the ventilation units and heat exchangers to all repairs, customers benefit from getting everything from a single source – **AIRCONOMY®.**





Left: A clean installation: the finished air distribution system provides hygienic air inside each room.

Right: Sitting tidy: the floor structure with a fixed heating pipe, integrated AIRCONOMY® system module and the installation ducts form the basis for fresh, temperature-regulated air in all rooms.

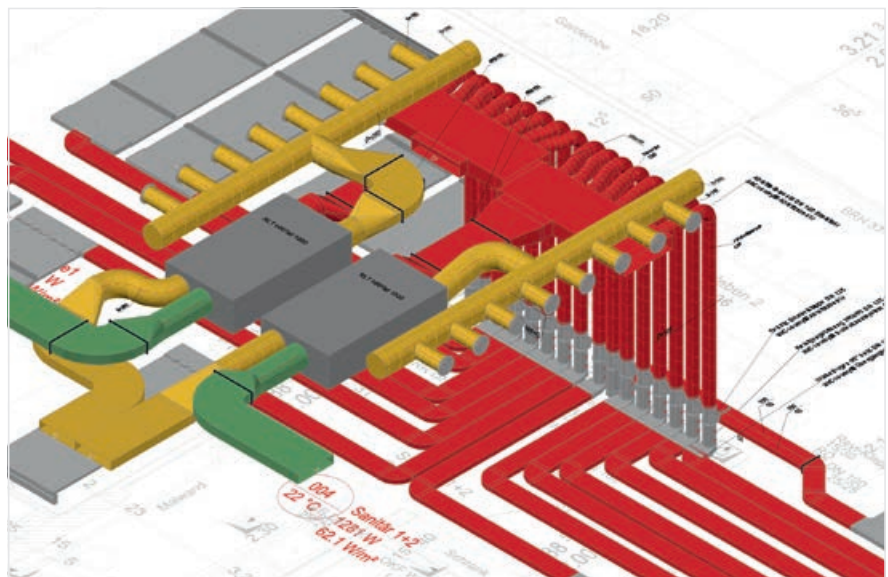
What's more, we are now providing more after-care: once the system has been installed and commissioned, we can now also handle on-going maintenance: customers benefit from filter changing, inspections, cleaning the ventilation units and heat exchangers and all repairs from a single source – AIRCONOMY®.

Naturally, our system continues to win over clients with its proven multiple benefits: it offers far more than just a classic underfloor heating and ventilation system that also combines warm water underfloor heating with controlled air exchange and heat recovery. The system also ideally complies with today's heightened awareness of allergies and the importance of hygiene. It's reassuring to know that the Ruhr Valley Center for Environmental Hygiene certified that AIRCONOMY® provides "A1 room air". The experts at the Fraunhofer Institute for Buildings Physics IBP in Stuttgart also praised the noise absorption of the system. We have continually refined the AIRCONOMY® system since it was first launched: today the system components are ideally coordinated, and thanks to the special design of the floor units can be easily and swiftly installed. All system components, including the outside and exhaust air pipes are brought to the site and installed by one team and are integrated in the structural work so that no technology impacts on the effect of the architecture after completion. Even the air vents, which are available in a choice of different designs, can be harmoniously integrated in a range of floor coverings.

**Once the system  
has been installed  
and commissioned,  
we can now also handle  
on-going maintenance.**

Updated information, including new brochures, comprehensive technical documentation and a brand new website, make it even easier for experts and prospective clients to understand the options that AIRCONOMY® offers. On top of this, there is a new software, specially developed for the needs of planners: this provides individual 3D plans and allows pressure losses to be precisely calculated. The inherent benefits of the noise absorbing effect and a noise absorption of 42 dB as well as compliance with the hygiene standards in accordance with VDI 6622 round off the specifications of our modern, energy-efficient and service-oriented full package.

At a glance: sample 3D plans for a nursery school.





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# AIRCRAFT CONVERSIONS WITH CORMASTER

It isn't just the big airlines that are doing everything they can to save fuel and reduce their CO<sub>2</sub> emissions. Owners of private jets also want to cut back on their kerosene expenditure. 'The lighter, the better' is the new mantra in the aviation industry.

Our innovative, high-tech lightweight composite is also used when serially produced aircraft are converted into private VIP planes, i.e. when aircraft series made by the major aircraft manufacturers, for example the Airbus A319 or A320, or the Boeing 737, are redesigned and refitted according to individual specifications. The engineered panels we manufacture and supply are used for

a range of applications, for instance to build cabins or exclusive interior panels. Depending on the design, size and complexity of the project, our standard sandwich panels can also be used. In collaboration with the customer SCHÜTZ designs a new material layout. Our optimised sandwich panels help to make the aircraft even lighter.



# HIGH TECH FOR THE SKIES

Collaboration with renowned OEMs and aviation suppliers for interiors: CORMASTER is being used to build the new Airbus programmes A350 and A330 Neo.

In January 2015, the Airbus A350 took off on its first international scheduled flight. The modern long-haul aircraft produces 30 percent less noise energy and consumes 25 percent less fuel than comparable models. Currently, 15 aircraft of this type have been delivered of a total of 777 ordered, meaning that production is in full swing. The production of the new Airbus A330 Neo only started in autumn 2015.

## ENERGY EFFICIENCY UP IN THE SKIES

**CORMASTER**  
is a robust lightweight  
composite material  
with an exceptional  
mechanical stability –  
and a very low weight.

To enable these colossal planes to take off as energy-efficiently as possible demands exceptional expertise and technical skill. We make a contribution with CORMASTER. This robust lightweight composite material has an exceptional mechanical stability – and a very low weight. Even extreme heat and humidity do not pose a problem. It is also resistant to corrosion caused by water, oils and kerosene.

Thanks to all of these characteristics, it is ideal for use as a composite material in lightweight structures in the aviation industry. The material, which is produced at our main factory in Selters, is made of aramid paper in a hexagonal honeycomb



# WATER HEAT HUMIDITY

# OIL

# KEROSENE

structure printed with a special adhesive. The papers are superimposed and pressed, before being expanded, opening them up in the characteristic hexagonal honeycomb shape. After being coated in resin, the block is cured in an oven to give it its final density and stability. These honeycomb blocks are used to make a wide range of interior components for the two Airbus models.

In a process developed by SCHÜTZ, the CORMASTER honeycomb is combined with one of several layers of Prepreg (short for "preimpregnated fibres") in multi-layer presses to make sandwich panels. The core of these panels is ultra-stable Kevlar, a material that is also used for bulletproof vests or alternatively, extremely heat-resistant Nomex, a fibre that is also used in fire protection suits. The top layer consists of glass fibre or carbon mesh.

These panels can be supplied as Engineered Panels, which can be manufactured to the customer's specifications by being locally reinforced and milled in a 5-axis milling machine to produce finished components. Sandwich and Engineered Panels made by SCHÜTZ are employed in the interiors of both Airbus aircraft, for example in toilets, cupboards and kitchens.

## AN INVESTMENT IN THE FUTURE

Like all Airbus aircraft, the individual components are produced decentrally, and final assembly takes place in Toulouse, France. Our CORMASTER components are made in our main factory in Selters, where SCHÜTZ's in-house tool-making unit is also located. Thanks to new orders resulting from the increased number of aircraft ordered from Airbus, we have yet again increased our production capacity and now have added another mill to our production line.



**SCHÜTZ**  
COMPOSITES

**LATEST  
NEWS 2016**

**WINDENERGY  
HAMBURG (D)  
SEPTEMBER 27 – 30, 2016  
HALL/BOOTH B5/205**

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# SUSTAINABILITY IS A TOP PRIORITY

In 2014, SCHÜTZ successfully completed the certification audit for an energy management system in compliance with DIN EN ISO 50001 in the sites at Selters, Ransbach-Baumbach, Siershahn and Simbach.

Sustainability as a key component in the corporate philosophy, steadily rising energy costs and stringent legal requirements were the factors that made our British subsidiary decide to adopt this globally recognised DIN standard. At the end of 2015, SCHÜTZ UK was the first of our international sites to obtain the Lloyd's Register certificate.

In 2007, the EU member states agreed to reduce primary energy costs by 20 percent by 2020. On 4 December 2012, the relevant EU Energy Efficiency Directive (EED) came into effect. This directive covers a broad spectrum of measures and specifies energy efficiency-boosting activities which the member states are to implement. The British government launched the Energy Savings Opportunity Scheme Regulations 2014. This scheme applies to around 9,000 businesses in the UK. Certification according to ISO 50001 is an officially accepted method of demonstrating compliance with the new scheme. As such, taking part in the audit was a logical step for SCHÜTZ UK. In compliance with the new act, our site in England successfully completed the project before the deadline on 5 December 2015.

Our site in Selters, which already holds certification, helped our colleagues in the British Isles to introduce the energy management system in accordance with DIN EN ISO 50001. Thanks to this expertise the framework conditions were set up in only six months.



ENERGY SAVINGS OPPORTUNITY SCHEME REGULATIONS 2014



EU ENERGY EFFICIENCY DIRECTIVE (EED)

UK CLIMATE CHANGE AGREEMENT



ISO 50001

The certification audit was conducted by LRQA Business Assurance, which is authorised by the British Environmental Agency to perform legal conformity assessments.

An additional incentive was the fact that corporate efforts to save energy by members of the UK Climate Change Agreement are rewarded with financial incentives. At the same time, production costs can also be reduced. Our factory in Worksop has set a target of reducing energy consumption by 16 percent by 2020, a goal it is pursuing sustainably – and current forecasts show that we will achieve this goal on time.

# STUDENTS FROM THE NETHERLANDS VISIT SCHÜTZ



In February, sixty students from the Avans Hogeschool in 's-Hertogenbosch visited our main factory in Selters.

Kitted out in high-visibility vests and divided into six groups, they were given a tour of the premises by experienced SCHÜTZ employees, and were shown the IBC assembly line, the production of our PE drums and our lightweight composite material CORMASTER. After the interesting excursion, the group was treated to lunch at the company headquarters to prepare them for a busy afternoon: the industrial engineering students had two other companies in the ICC Koblenz region to visit.

These regular excursions by the Dutch college are organised to give the students an insight into the practical work involved in international industry as well as the theory taught in the classroom. "These visits are a great opportunity to present our globally operating company as

**These visits are a great opportunity to present our globally operating company as an attractive employer.**

an attractive employer," says Marcel Schweitzer, personnel officer for Training/Qualification SCHÜTZ. Frowin Endres, plant manager at SCHÜTZ Benelux, who had come with colleague Conny Elst from Moerdijk specially for the students' visit, was delighted at how successful it was: "Until now, we have not worked with universities in the Netherlands. That is definitely going to change, as we made some very valuable contacts during this visit."



# LONDON CALLING



Helping to build the skills of young people has always been a priority at SCHÜTZ. The latest project initiated by the training department at the main site in Selters: commercial apprentices who have qualified by displaying exceptional commitment are being given the opportunity to complete a three-week Professional Development Programme (PDP) at the European College of Business and Management (ECBM) in London.

In October 2015, the first four SCHÜTZ apprentices travelled to the city on the Thames to take part in the PDP. This scheme is supported by the Chamber of Industry and Commerce in Koblenz, in cooperation with the German-British Chamber of Industry and Commerce (AHK). The specially tailored intensive course, "Doing Business in the English Speaking World", was developed by ECBM specifically for apprentices to allow them to expand their experience of the business world and build their language skills. The lessons at the college are all held in English. Depending on the branch of industry, the coursework can be individually adapted to the needs of the students. The topics of the programme: What makes London so attractive as a business location? How does successful marketing work in English-speaking countries? What factors need to be taken into consideration in an intercultural team? What role does the United Kingdom play in the European Union? What counts in business ethics?

During the three-week stay, the apprentices lived with host families. This helped them to use the language as well as giving them insight into everyday life on the island and British culture. Susanne Schneider, training manager for the commercial apprentices at SCHÜTZ, is enthusiastic about the programme:

"This trip is a reward for our apprentices' successful work. It not only helps them to build their English skills, it also lets them look beyond their own cultural horizon, collect international experience and acquire intercultural skills. This promotes their self-reliance and prepares them to meet the challenges they face after completing their training. This is very important, particularly in a globally operating company like SCHÜTZ."

At the end of the course the apprentices received a certificate from ECBM and the

AHK. After successfully completing their apprenticeship in Selters the AHK will, on request, issue them with a certificate stating that they are a "International Commercial Management Assistant".

**All the apprentices have now returned home and are back at work at the Selters site. They can immediately apply their newly acquired skills as they have to write a paper about a business topic and send it the ECBM in London. We wish them the best of luck and great results!**







# NEW APPRENTICE- SHIPS AT SCHÜTZ

In order to show school students what a wide range of occupations we offer at SCHÜTZ we regularly attend education fairs and recruitment events. Our apprentices speak about their experiences with the company and describe the work typically associated with their profession. At our information stand we also present SCHÜTZ as an international training company which offers great potential. Wind energy and our composite material CORMASTER are always highly attractive subjects for the young visitors to these shows.

Students are always fascinated by the development and application of pioneering new technologies in wind power plants and in the aviation industry. At SCHÜTZ, we're helping to train tomorrow's experts in these fields: from 2016, we'll be offering two new apprenticeships in our SCHÜTZ COMPOSITES division.

As one of the biggest employers in northern Rhineland-Palatinate, we offer 30 apprenticeships every year. These include 20 different technical and commercial occupations and five specialisations in the combined vocational training and degree program.

**SCHÜTZ**  
COMPOSITES

New additions this year are an apprenticeship to become a process technician in plastics and rubber in fibre composite technology and an apprenticeship as a construction mechanic in welding technology.



## PROCESS TECHNICIAN FOR PLASTIC AND RUBBER IN FIBRE COMPOSITE TECHNOLOGY

### FORM-IDABLE EXPERTISE

Process technicians for plastic and rubber in fibre composite technology at SCHÜTZ are responsible, amongst other things, for testing and monitoring measuring equipment, measurement methods and control equipment, particularly those used for taking temperature, pressure, time, flow volume, mass and electronic unit readings. Their tasks include calculating mixing proportions based on resin type and the fibre volume content.

The training takes place at either **Siershahn, where the focus is on wind energy**, or at **Selters for CORMASTER**.

Those opting for Siershahn will study research and development, building master forms, form tools and prototypes as well as the inhouse production of rotor blades for wind turbines. At the main factory in Selters the process technician apprentices learn all about our innovative high-tech lightweight composite material CORMASTER. This material combines exceptional mechanical stability with a very low weight, and is widely used in many different aviation applications.

The duration of the training course at both sites is three years, and the minimum requirement is a good general certificate of secondary education. Our apprentices attend the vocational college in Montabaur in blocks of one or two days a week. The curriculum also includes four hours of manual instruction. The apprentices also have one hour per week of English – an

essential subject in an international company. Our aim is to enable the newly qualified skilled workers to express their expertise in a foreign language. It also qualifies them to spend a period abroad at one of our international subsidiaries.

The curriculum for the first two years: measuring, controlling, regulating, maintaining and repairing equipment.

The apprentices also learn how to

work with polymers and how to differentiate and classify additives and auxiliary materials. In their third year our apprentices learn process techniques to produce fibre composite components and how to machine and process assemblies made of fibre composite materials.

#### CURRICULUM FOR THE APPRENTICESHIP

- Measuring, controlling
- Calculating mixing proportions
- Maintenance & Repairs
- Handling materials
- Process techniques
- Processing assemblies



## CONSTRUCTION MECHANIC IN WELDING TECHNOLOGY



### A HEATED PASSION FOR THE JOB

The apprenticeship to become a construction mechanic in welding technology takes 3.5 years. Candidates are also expected to have a good general certificate of secondary education. The theoretical part of the training at the vocational college in Montabaur is accompanied by practical training at the factory which is taught for four hours a week. During this time the skills that the apprentices have learned are repeated and applied, and they are taught how to work independently to complete practical tasks. The apprentices are also prepared individually for their final exams. In the first and second year they learn about the different welding techniques, such as oxyacetylene, electrical and gas-shielded welding. They then move on to welding together steel components, parts and units. We also teach the apprentices how to quality check weld seams using ultrasonic techniques or x-rays.

Further subjects include soldering, plasma and flame cutting, cutting and shaping sheets, pipes and profiles. In the third and fourth year they are taught more complex tasks, such as drawing up welding and assembly plans, preparing assembly sketches, workflows in assembly and dismantling large-scale metal structures, safety precautions and technical measures required when transporting metal structures.

#### CURRICULUM FOR THE APPRENTICESHIP

- Welding techniques
- Welding components together
- Quality control
- Soldering, plasma and flame cutting
- Cutting and shaping
- Welding and assembly plans
- Assembly and dismantling



### FROM WESTERWALD OUT INTO THE WORLD

SCHÜTZ continues to support the new skilled workers after they qualify by providing training courses and further education. This investment in the future ensures we continue to produce innovative developments that are used all around the world in wind power plants and lightweight composites for the automotive, ship-building and aviation industries.

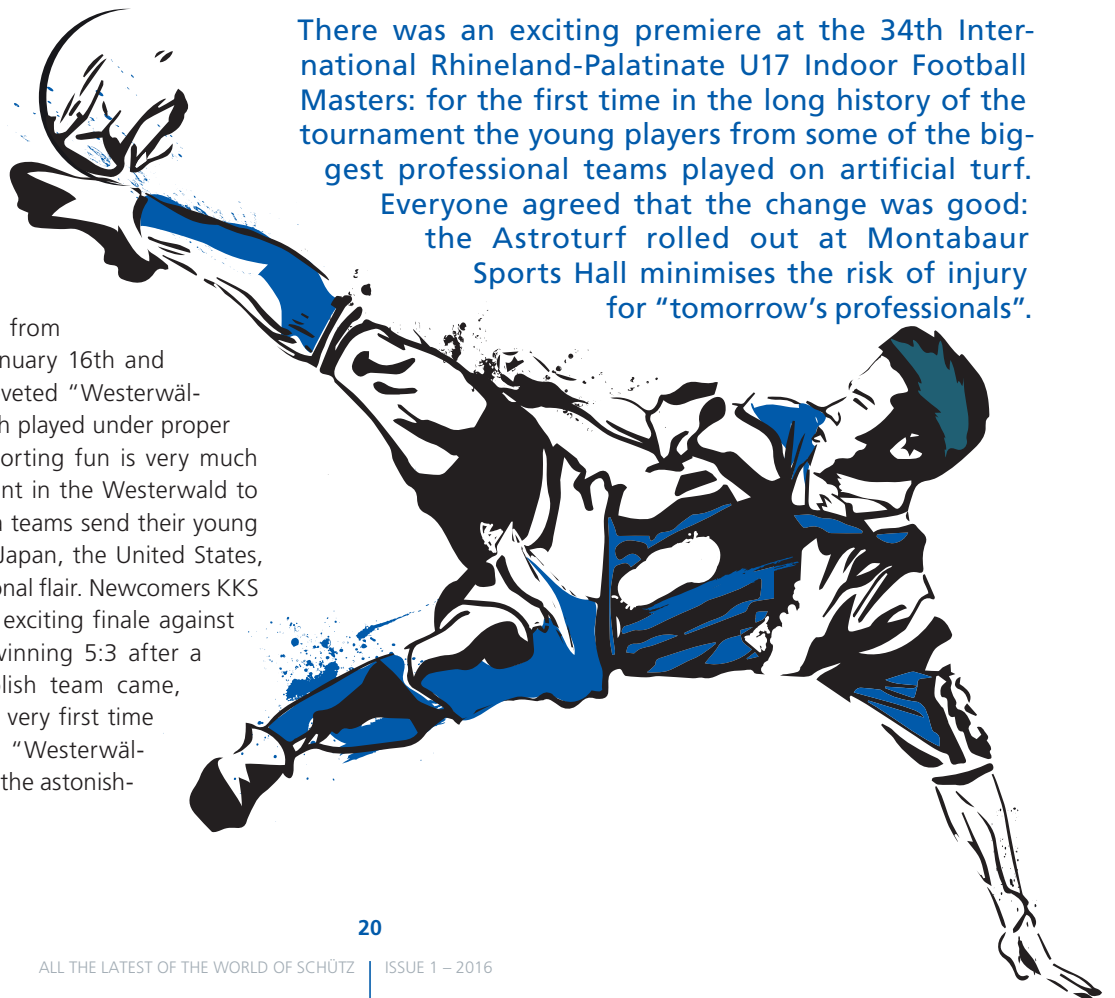


# SCHÜTZ AGAIN THE TEAM SPONSOR FOR BAYER 04 LEVERKUSEN

There was an exciting premiere at the 34th International Rhineland-Palatinate U17 Indoor Football Masters: for the first time in the long history of the tournament the young players from some of the biggest professional teams played on artificial turf.

Everyone agreed that the change was good: the Astroturf rolled out at Montabaur Sports Hall minimises the risk of injury for "tomorrow's professionals".

A total of 14 youth teams from four nations met up on January 16th and 17th to compete for the coveted "Westerwälder Keramik-Cup". Although played under proper competition conditions, sporting fun is very much an aspect at this tournament in the Westerwald to which big-name Bundesliga teams send their young ball acrobats. Teams from Japan, the United States, and Poland added international flair. Newcomers KKS Lech Posen battled out an exciting finale against VfB Stuttgart, ultimately winning 5:3 after a penalty shootout. The Polish team came, saw and conquered on the very first time they had taken part in the "Westerwälder Keramik-Cup", much to the astonishment and admiration of all.







Following VfB Stuttgart in third place came Bayer 04 Leverkusen – which in 2016 was again the team sponsored by SCHÜTZ. Another success for the Leverkusen team was their goalkeeper, Emre Öztürk, being named the best keeper of the tournament! We again supported the local team, EGC Wirges: the home team competed in shirts with "GO! SCHÜTZ" on them. Unfortunately, the difference in class was just too great and the highly motivated regional team lost their first match against Bayer 04 Leverkusen, the winner of the previous year's tournament. However, the lads from EGC Wirges accepted their place at the bottom of the table with good humour.

As not every young talent will succeed in making a profession career out of football we also use this attractive sporting event to provide information about alternative careers at SCHÜTZ.

The young players and their parents were given brochures at our information stand.

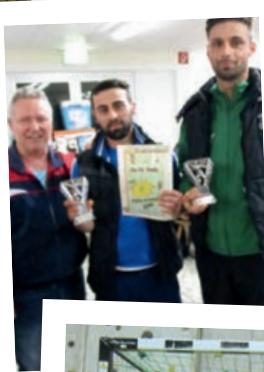


For more information:  
[www.go-schuetz.net](http://www.go-schuetz.net)



# GOALS ALL ROUND – AND PLENTY FOR SCHÜTZ

For the 12th time, the annual SCHÜTZ BR Cup took place at the beginning of this year.



## SCHÜTZ BR-CUP

### RESULTS

#### THE TABLE AFTER A TOUGH BUT FAIR TOURNAMENT:

**1st place: PS Profis**  
**2nd place: Warehouse United**  
**3rd place: Rep United**

4th place: Elektrowerkstatt  
5th place: Werkzeugbau  
6th place: FC Verladung United  
7th place: Maschinenbau  
8th place: KSW-Rangers  
9th place: Windplayer

Nine teams competed in this private indoor football tournament, which is organised by the works council, at Selters, all with high hopes of taking home the cup. Colleagues and friends watched the event and cheered on their teams – creating a jubilant stadium atmosphere. As well as the fun of the game, ultimately, this tournament was all about enjoying sporting fun with colleagues.

**At the end of the day and after an exciting tournament, the PS Profis (Injection Moulding) were able to secure the coveted BR Cup.**

PRESENTED BY THE SCHÜTZ WORKS COUNCIL





Photographers: Pim Ras and Luka de Kruijf

# SCHÜTZ BENELUX TOOK PART IN THE ROTTERDAM MARATHON 2016

On 10th April 2016 the world-famous Rotterdam Marathon took place for the 36th time. The street marathon is the biggest single-day event in the Netherlands, and some of the world's top athletes join thousands of runners at the starting line on the lively Coolsingel, at the heart of Rotterdam. The course is one of the fastest in the world, and three world records have been set here over the past decades.

The 40,000 runners and 1,150 teams also included two teams from our Dutch subsidiary, SCHÜTZ Benelux. Competing in the race for the second time, the SCHÜTZ team was comprised of representatives from the corporate divisions Logistics, IBC, Steel and Reconditioning.

Full of enthusiasm, our teams set off from the factory at Moerdijk very early on a brilliant spring morning to tackle this challenging race – a feat they pulled off with great success! One team completed the 42 kilometres of the “Duo Marathon” course in a very respectable 4 hours and 5 minutes; the second team ran the 42-kilometre “Estafette Marathon” course in 4 hours and ten minutes.



The SCHÜTZ Benelux runners celebrated their athletic success at the After-Run-Party, which was also a welcome opportunity to catch up with colleagues from the various production departments.

**Our congratulations to the Moerdijk contestants on their sporting success!**



# THANK YOU

## FOR MANY YEARS OF LOYALTY TO THE COMPANY

As an expression of gratitude for their loyalty and commitment, SCHÜTZ invites long-standing employees and retired staff to the company headquarters in Selters for an annual party. On 11 December of last year, Udo Schütz and the board of management organised an event which was attended by 47 long-standing employees. At the joint celebration Udo Schütz and CEO Roland Strassburger presented certificates of honour from the International Chamber of Commerce to these members of staff in recognition of their loyalty and dedication to the company.

Of the 47 employees, 43 have been with the SCHÜTZ Group for 25 years, and four have worked for the company for an impressive 40 years.



#### IMPRINT:

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 Sage & Schreibe Public Relations GmbH (Christoph Jutz, Stephan Hanken)  
 Design: Bauch & Müller Werbeagentur GmbH, Rheinstraße 103, 56179 Vallendar  
 Print: Druckerei Corzilius e.K., Industriegebiet, D-56242 Selters / Westerwald  
 Picture copyright: Shutterstock.com