

OESTNEWS

THE OEST GROUP INFORMATION MAGAZINE



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Dear readers

These are special times, marked by the far-reaching impact of the coronavirus pandemic which presents society and the economy with enormous challenges.

Once more this has shown how much we can rely on our employees, who immediately supported not only the introduced hygiene concept, but also the necessary preventive process changes in a committed and responsible manner. Once again, I would like to thank everyone for this. I also thank our many customers and partners for the reliable collaboration, even during the phases of restrictions and difficult general conditions.

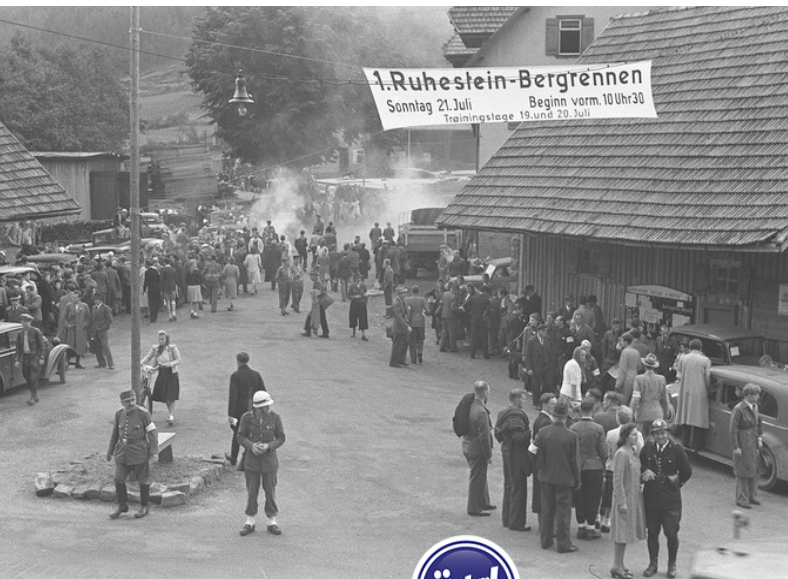
The Oest Group stands for pioneering product innovations and services for many different markets and industries. We will continue to stand by that – with foresight, specialist know-how and more than 100 years of experience. We focus on the highest quality requirements and an active commitment to sustainability, which are also reflected in many projects and topics in this edition of Oest News.

Best regards

Alexander A. Klein
Chairman of the Board



LEGENDARY – THE ÖSTOL RUHESTEIN BERGPREIS



Östol was one of the main sponsors of the legendary first Ruhestein Hill Climb event in 1946. The revival of the historic rally with the Baiersbronn Classic in 2013 was a successful reminiscence of this important event. The oldtimer rally has since been taken place every year and is one of the most important and beautiful in Germany.

Way back in 1946, German motorsports history was written: With the Ruhestein Hill Climb, Baiersbronn brought the first motorsports event to the Black Forest after the war. Despite destroyed roads and fuel and material shortages, over 100 drivers started in the 1st Ruhestein Hill Climb with their cars and motorcycles on Sunday, 21 July 1946 – a true sensation among the hardships of the postwar era.

Over 30,000 racing fans celebrated their first motorsports heroes after World War II. The starting list included many famous motorsports of the time, with race cars and motorcycles from great brands such as BMW, Bugatti, Morgan, Maserati and MG.

Radio Stuttgart reported live from the revival of motorsports in Germany and announced the grand winner of the day: Hermann Lang, who took first place with a 1.6 second advantage in his 1940 Mille Miglia BMW. The BMW, which had been lost during the war, is one of the star exhibits at the BMW Museum today.

ÖSTOL OLDTIMER OILS

Every year in September, more than 150 historic cars and motorcycles start at the original starting location in Obertal for the last stage of the Great Östol Ruhestein Bergpreis trophy. And of course it not speed that is required here, but rather vehicle handling and ability, which have to be proven in various special challenges.



The Great Östol Ruhestein Bergpreis – drawing crowds then and now.



Technik
Museum Sinsheim Speyer

Brutus experimental vehicle.

750 HP AND ÖSTOL UNDER THE BONNET

One of the top attractions at the Technik Museum Sinsheim and Speyer is the unique Brutus experimental vehicle with its 750 HP aeroplane engine. At the Brazzeltag event it can be experienced in action and within an impressive scenery.

The Technik Museum and Östol have been working in close cooperation for many years. Classic cars, motorcycles and historic tractors at the museum are supplied with engine and gear oils from the Östol brand. This also includes the Brutus with its 12-cylinder BMW aeroplane engine and 47-litre capacity.

The vehicle was designed between 1998 and 2006 and was built on the chassis of a 1908 fire engine from American La France.

The engine power is transferred to the rear axle by the original gearbox with three gears and a chain transmission. This vehicle impresses not only technology fanatics.



One of the highlights of the Brazzeltag at the Technik Museum Speyer.



Where refuelling is still fun – AVIA retro filling station in Freudenstadt-Kniebis.

CO₂-NEUTRAL FUELS AT THE AVIA RETRO FILLING STATION KNEIBIS

The AVIA retro filling station by Oest in Freudenstadt-Kniebis is not only a special visual experience. The fuels sold there are now also CO₂-neutral through compensation certificates.

Germany's prettiest filling station with 1950s and 1960s styling is a highly popular destination in the northern Black Forest, featuring a shop, bistro and sun deck. But day trippers and regular customers also specifically drive to the filling station to buy fuel. Despite the nostalgic atmosphere and the pumps with historic design, this is still a fully functioning filling station with high-quality fuels. But the AVIA filling station on the Kniebis mountain offers more than just the usual in this regard as well.

"CO₂-neutral fuels are an important issue which we have been focussing on for a long time," emphasises Matthias Pape, Managing Director of Oest Tankstellen GmbH & Co. KG. "Our AVIA filling station Kniebis, in a beautiful natural setting, is of course predestined for this." As of this year, the CO₂ emissions of the fuels sold here are compensated with balancing investments in projects for CO₂ reduction. This is achieved by selling certificates with which Oest supports projects to reduce CO₂ emissions to the same extent. Further measures for CO₂ reduction are in preparation. Oest is already investing a high five-figure sum in these projects, including for the AVIA filling station Kniebis.

NEW AVIA FILLING STATIONS OPENED

Oest is represented in other locations with two new AVIA filling stations – in Jockrim near Karlsruhe and in Hirrlingen in the Tübingen district.

The station in Hirrlingen is an automated 24-hour self service filling station where all standard fuels as well as AdBlue for HGVs and cars can be purchased around the clock. Paying is a quick, easy and convenient process thanks to modern terminals for cashless transactions using a debit, credit or fuel card. The XPress filling station is situated directly adjacent to a self-service car wash facility, which is also new. The new AVIA filling station in Jockrim is a modern full service station, equipped with a car wash, shop and cosy bistro. It offers all standard fuels as well as AdBlue. A special HGV diesel pump and an electric charging station are also available. Both filling stations with their different concepts will be presented in detail in the next Oest News.



AVIA XPress filling station in Hirrlingen.



AVIA filling station Jockrim.

TAKEOVER OF THE TESSOL FILLING STATION NETWORK

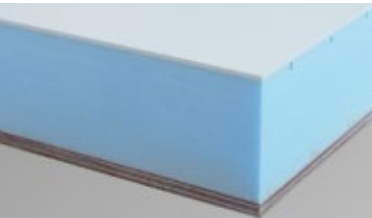
A joint venture of Deutsche AVIA, of which Oest Tankstellen GmbH & Co. KG in Freudenstadt is one of the large partners, has taken over the BayWa subsidiary Tessel.

Tessel Kraftstoffe, Mineralöle und Tankanlagen GmbH with over 150 filling stations in the states of Baden-Württemberg, Bavaria, Hesse, Thuringia and Saxony was also an AVIA partner, so that the filling stations will continue to be run with the AVIA name. Even after the change in ownership, Tessel – with headquarters in Stuttgart – has remained an independent limited liability company.

The separation from the Tessel group company was a strategic decision by the BayWa building materials company from Munich, to allow a stronger focus on the core business fields and intensive capital investments in these areas, as BayWa CEO Klaus Josef Lutz explains.

The takeover, which was approved by the competition authority, allows Oest to further expand its existing AVIA filling station network in southern Germany as a new shareholder of the Tessel filling stations.





INNOVATIVE COMPLETE SOLUTION FOR SANDWICH PANELS

Example for a multi-layer sandwich panel.

Sandwich panels are manufactured from a variety of different materials and are used for building caravans and ships and in many other areas. Adhesive application plays a central role in the manufacturing of these panels. Oest Maschinenbau is one of the global technological leaders in this field and continues to impress with sophisticated metering and application technology as well as with its competence as a one-stop supplier for individual application solutions.

two travelling belt tables, allowing two panels to be manufactured at the same time.

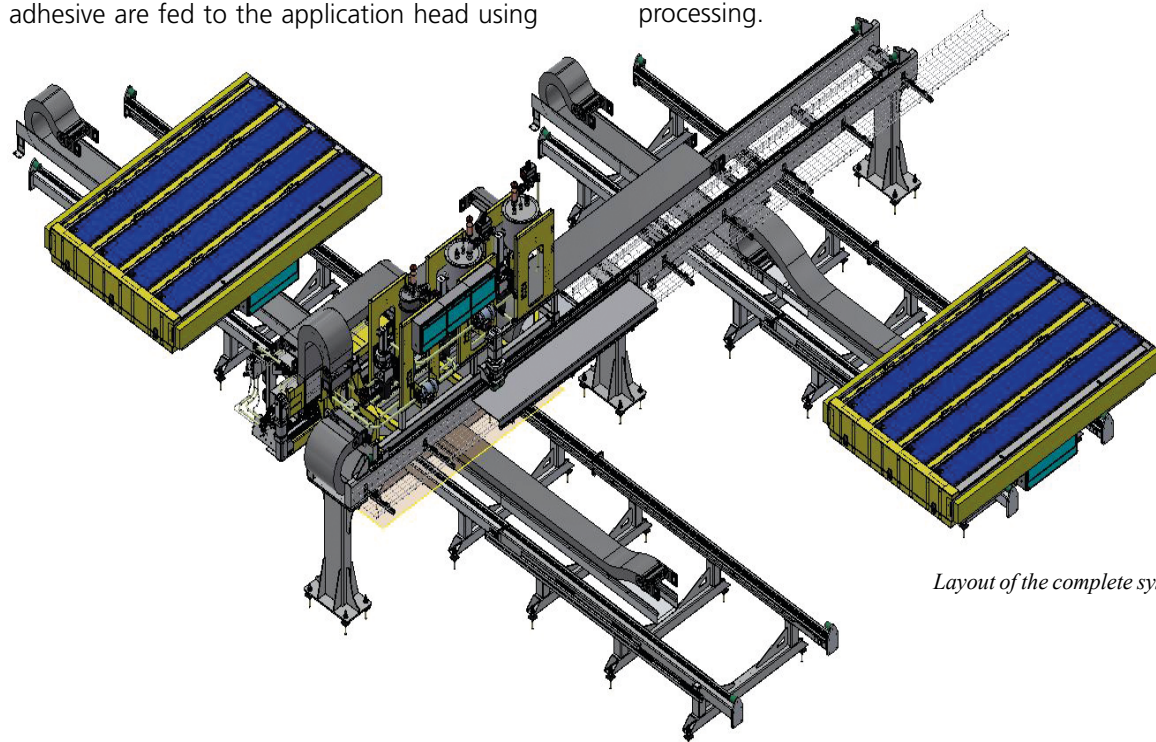
The belt tables are loaded manually by an operator outside of the safety circuit, supported by a laser scanner which projects the component contours onto the belt table. This system allows several components to be placed on the belt table side by side. After the first layer has been placed, the belt table moves underneath the 2-axis gantry. The adhesive is then applied in parallel beads by the reliable KONTIMIX metering and mixing system and the maintenance-

OEST MECHANICAL ENGINEERING

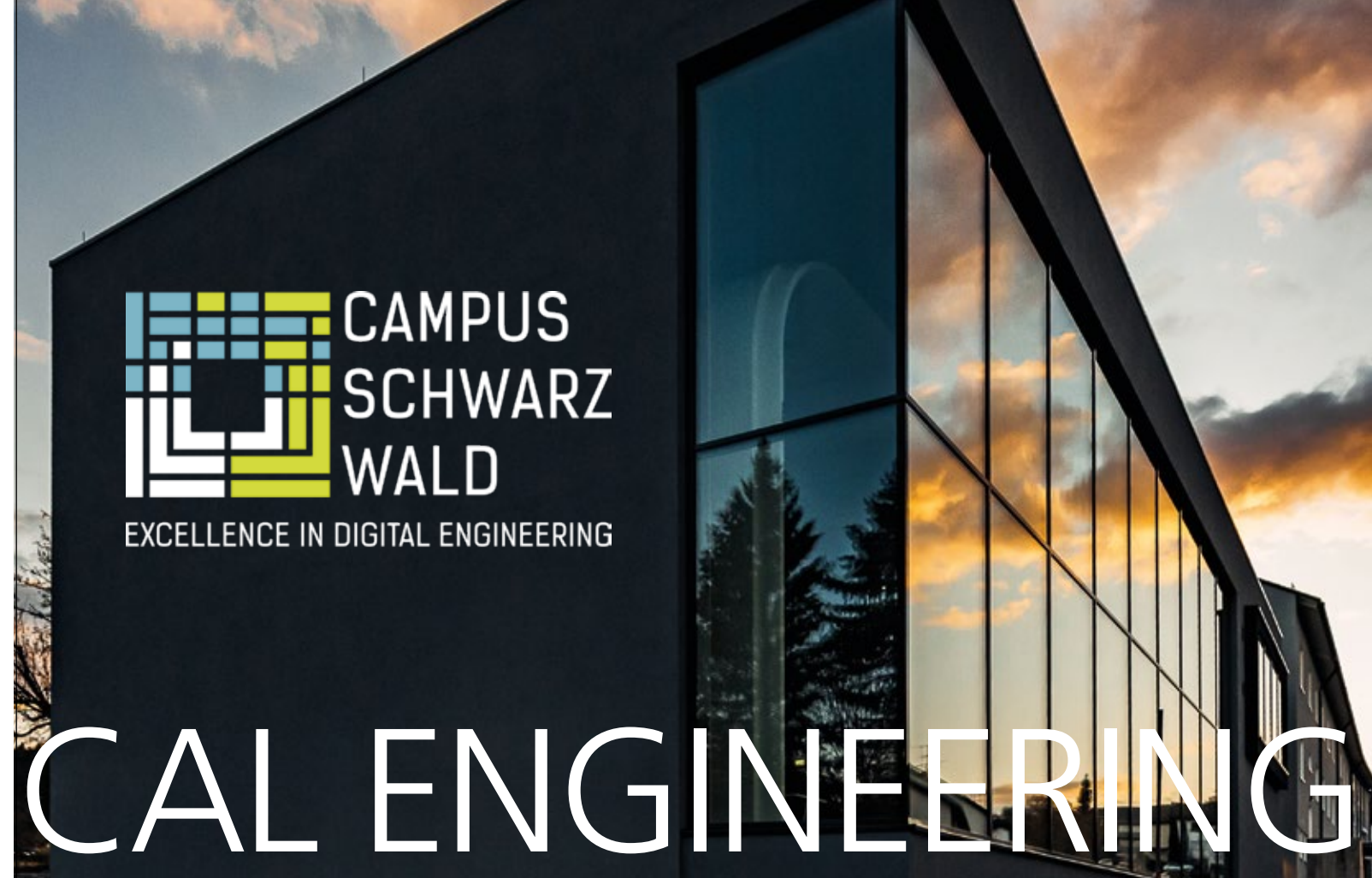
This also applies to the new system for a renowned manufacturer of sandwich panels, who was looking for the optimum adhesive application system to meet the continuously increasing requirements for its products. The very high variance in the component dimensions and the structure of the panels presented a special challenge in this case. Based on a joint requirements analysis with the customer, it was decided to implement a special mechanical system where the workpieces to be coated with adhesive are fed to the application head using

friendly FACETAC application head, with a feed rate of 60 m/min. When the adhesive has been applied to the first layer, the respective belt table moves back to the operator, who places the next layer. After the final adhesive application, the component is transferred to the respective feed belt for the press.

The system also includes the complete adhesive supply system with transfer unit and a climate chamber to ensure constant optimum adhesive processing.



Layout of the complete system.



Campus Schwarzwald in Freudenstadt.

PARTNER OF THE NEW CAMPUS SCHWARZWALD

Campus Schwarzwald in Freudenstadt in the Black Forest is a modern centre for teaching, research and technology transfer in the field of mechanical engineering and manufacturing. Campus Schwarzwald focuses on digitalisation, management and sustainability.

The facility in Freudenstadt was made possible by a cooperation between leading industrial companies in the region, Stuttgart University, the Chamber of Industry and Commerce (IHK), the district administration and Freudenstadt city council. The close links between Stuttgart University and the companies involved allow for a particularly high level of practical relevance.

Oest Maschinenbau is one of the 21 companies in the cooperation. The idea of Campus Schwarzwald was met with great enthusiasm at Oest from the outset. One of the benefits is

that this can occasionally provide an opportunity to recruit future specialist and management staff. The collaboration with the Campus also facilitates access to university research and further expands the interdisciplinary exchange of experiences.

Future-oriented topics which drive companies forward can be developed more quickly in cooperation. This includes the question of how to digitalise processes and products and which methods and efficiency-increasing measures can be derived from this. At Oest Maschinenbau, for example, virtual commissioning of complex adhesive application machines will become increasingly important in the future. A virtual digital twin of the system can be used to run simulations in the early phases, allowing for faster commissioning of the finished machine at the customer site later on.



Customer dialogue – an important element for success.

FORMING LUBRICANTS

OPTIMUM PERFORMANCE FOR COMPLEX FORMING AND PRESS BENDING PROCESSES

Whether automotive manufacturing, energy generation, mechanical engineering or traffic engineering – most industries today use electronics and electrical connection technology. Many innovations in this field come from the successful family-run company Weidmüller with headquarters in Detmold. The company has been working with lubricant specialist Oest for many years, after more than 50 lubricants were tested for the metalworking processes at Weidmüller in a comprehensive series of tests.

“Oest Platinol V 2704-4 forming lubricant produced by far the best results back then,” remembers Hartmut Köstler, Production Planner at Weidmüller. After the successful tests, all production machines were changed over to the new forming lubricant on a specified date. The Platinol forming lubricant from Oest has since been used for progressive punching, thread forming and thread cutting as well as for complex press bending processes, also with different materials.



The large-scale series of tests with over 50 lubricants from all renowned manufacturers had become necessary because the supplier had discontinued the lubricants used at the time. “Most of the lubricants produced problems with insufficient demulsification behaviour when the metal parts were cleaned in our washing system. Some of the lubricants we tested resulted in premature tool wear, while others failed when it came to compatibility with non-ferrous metals,” says Hartmut Köstler. “Skin irritation reported by some of our employees was another problem back then, which our company took very seriously.”

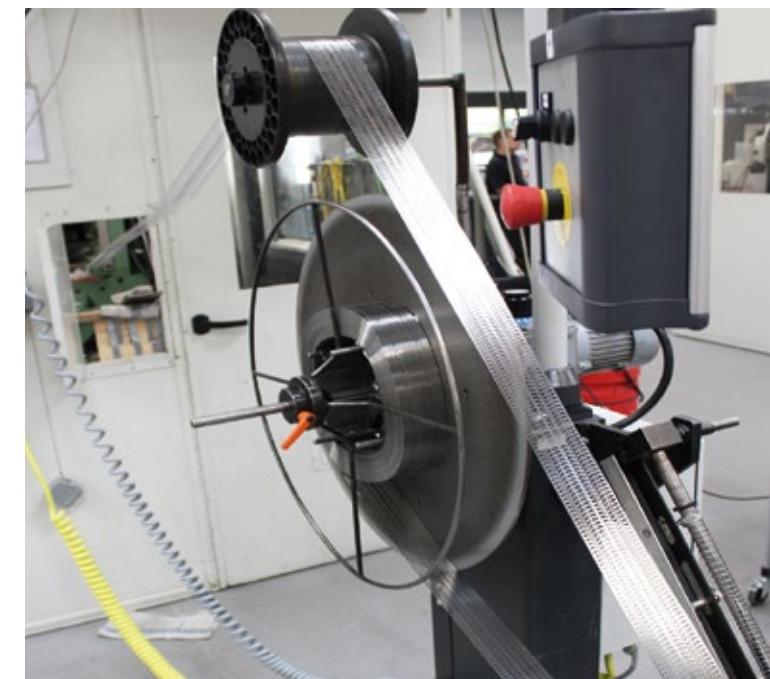
Oest Platinol V 2704-4 showed very good results in all respects. In the meantime, the company has changed to an evolved product innovation from the Platinol range, which even allowed for further optimisation of the process stability.

“We can also rely on optimum results with respect to cleaning and degreasing of our metal parts, which is very important to us. Early malfunctions from blocked filters have become a thing of the past since we started using Platinol. Process stability is not just about optimum lubrication. Application and filtration properties, corrosion protection and temperature resistance as well as compatibility with coatings and permanently reliable biostability are very important characteristics of a high-performance forming lubricant,” explains Hartmut Köstler.

and copper alloys are processed every month. An immense quantity, considering that the small parts often measure only a few millimetres. All conceivable dies and small parts for electrical engineering are manufactured with the modern machinery at Weidmüller – from simple cutting dies to complex components for which press bending processes with high-precision thread forming are carried out in a single machine. The batch sizes are immense. Up to 100 million units are manufactured of some parts.

“Of course, responsible continuous monitoring of the lubricant is an important factor for success in this regard,” adds Markus Berger, Regional Sales Manager at Oest, who is in regular contact with Hartmut Köstler and his team. At Weidmüller, specially trained employees ensure continuous monitoring of all important quality parameters on the machines. The high-tech laboratory of Oest Application Technology in Freudenstadt can also offer support if required. “I can fully rely on this cooperation,” emphasises Hartmut Köstler. “Whenever we have any questions about the application of lubricants, we receive fast, flexible and competent support. That is really important to us. This also applies to the proactive participation in continuous optimisation processes for our lubricant applications. To achieve long-term process reliability and continuous optimisation of production processes, we need an experienced partner like Oest with strong customer service, who will accompany us on the path of continuing further development.”

The metal parts manufactured at Weidmüller in Detmold are made of a variety of different materials such as steel, stainless steel or non-ferrous metals, with a thickness between 0.2 and 4.0 mm. Around 300 t of steel and 350 t of copper



Machines for punched parts run with up to 900 strokes per minute.

“The lubricant used has a crucial influence on productivity and efficiency. Oest Platinol has allowed us to further optimise service life while reducing costs and effort to a minimum,” Hartmut Köster reports with satisfaction. “In conjunction with the competent and flexible service from Oest, we are ideally positioned for any future technological and process innovations.”



Participation in the Automechanika Shanghai.

OEST SUBSIDIARY IN SHANGHAI

Based on the increasing export business with lubricants “Made in Germany” in Asia, the Oest Trading (Shanghai) Company Limited was founded in China as a full subsidiary of the Oest Group.

New markets in the fields of mechanical engineering and metalworking as well as the important automotive industry in China have prompted a continuous rise in demand for high-quality industrial and automotive lubricants in China. Having its own representation locally, headed up by General Manager Frank Shen, is an important step for Oest in expanding its market position in Asia in the next years.

The “Made in Germany” label is still highly respected in China. This applies in particular to traditional, yet future-oriented companies such as Oest. The foundation of the subsidiary in Shanghai also created new sales and logistics structures and conditions for increasing the market presence and generating new sales markets.

From left to right: Michael Kreft, Director Oest International Sales and Alexander A. Klein, Chairman of the Board of the Oest Group with Jason Xu, General Manager Recheng Automotive and Technology Company Ltd. and Frank Shen, General Manager of Oest Trading Company Limited.



NEW OEST METALWORKING FLUIDS IN DEMAND WORLDWIDE

High-performance metalworking fluids made in Germany are in demand all over the world. The new fully synthetic HD cooling lubricants from Oest are as successful internationally as they are in Germany. These lubricants are ecologically sustainable and offer optimum performance, while also significantly reducing costs.

The high level of safety for users is another important point. The formula avoids components which pose a risk for humans and the environment. Oest Colometa SHD-A is odourless, has a mild pH-value < 8 and a verified very low potential for skin irritation. A special anti-mist additive prevents formation of aerosols and mist.

INTERNATIONAL

SUCCESSFUL USE OF COLOMETA SHD-A

Oest Colometa SHD-A has a high material compatibility and is suitable for all types of materials: steel, stainless steel, nickel and titanium alloys, non-ferrous metals, plastics and composite materials. The cooling lubricant offers excellent lubricity. Different metal machining processes can be covered with the same cooling lubricant – from simple to highly complex machining and grinding processes.

Colometa SHD-A improves productivity through longer tool life and efficient cutting parameters (high speed/high feed rate). At the same time, the optimised wetting properties significantly reduce drag-out rates. In combination with minimised aerosol formation, this results in extremely low consumption.

The unique formula makes Colometa SHD-A resistant to bacteria and fungi, allowing for a significantly longer useful life of the cooling lubricant.



Maximum performance with reduced process costs.

Colometa SHD-A also offers excellent opportunities for significantly lowering process costs. Customers have confirmed savings of up to 88% compared to their previously used cooling lubricants. In addition to this, tool costs can be reduced by around 40%. This is further augmented by cost savings for disposal, reduced machine downtime and lower costs for changing the lubricants.

All this results in enthusiastic customers and successful applications in many different industries, e.g. in aerospace, the automotive industry, medical technology and many other areas of the metalworking industry.



FUEL

UP TO 90% REDUCED GREENHOUSE EMISSIONS

Producing fuel from renewable natural resources is nothing new. Early technologies and solutions such as classic biodiesel, however, have less beneficial side effects. The main one is that these are in competition with food production, which means they are not truly sustainable. The 100% renewable Oecopower D® diesel fuel is a completely different product which is attracting more and more attention because it is made from biogenic waste, which previously went into landfill.

The varied product portfolio of Georg Oest Mineralölwerk also includes pioneering fuels. The special fuels range for two-stroke and four-stroke engines with Oecomix 2T® and Oecokraft 4T® has been tried and tested for years and is primarily used in forestry, construction and agriculture. Around two years ago, Oest

launched Oecopower D® as a sustainable special fuel for diesel engines which sets new standards with respect to life cycle assessment and reduction of pollutants. It combines all the benefits of a fuel that has been developed from renewable raw materials without accepting the disadvantages of a conventional biodiesel.

Fuel based on biogenic waste

Oecopower D® contains processed waste grease, residual waste materials and vegetable oils and is classified as a hydrotreated vegetable oil. The significant reduction in emissions and ease of use without the need to change equipment are just two of the many positive features of the premium fuel, which is being used successfully in diesel vehicles and machines by more and more companies. Changing to the renewable diesel is very easy, as it is compatible with conventional fossil diesel and requires no preparation.

Focus on reduced air pollution

Given the high cetane number, Oecopower D® burns more cleanly, delivers more power to the engine and reduces consumption. It keeps combustion chambers and injection nozzles clean and protects the entire fuel system against corrosion. Primarily, though, it minimises the emission of pollutants. Scientific studies prove the significant reduction of environmentally relevant emissions with the following average values:

- 33% less particulate matter
- 9% less nitric oxide (NOx)
- 30% less hydrocarbons (HC)
- 24% less carbon monoxide (CO)

The product can reduce greenhouse gas emissions over the entire product life cycle by up to 90% compared to fossil diesel fuel.

emphasises Georg Dorn from Möslle Bau. "If the fuel then also optimises engine cleanliness and performance, the decision becomes easy. In addition, the extreme resistance to low temperatures and the ageing stability make the diesel pest a thing of the past – also for seasonal use of our machines and longer storage times, especially in winter."

The special properties of Oecopower D® make the environmentally friendly diesel fuel interesting for many other areas of application, e.g. for boat engines and of course also for cars and HGVs in daily use. Naturally, Oest uses Oecopower D® for its company vehicles. While the fuel is not (yet) available at public filling stations due to complex approval processes, closed user groups such as councils, associations or companies can obtain

INNOVATION

The fuel with this formula is certified as a sustainable, climate-friendly biomass/bioenergy as per the ISCC system recognised by the German Federal Government and corresponds to DIN EN 15940 Class A.

In addition to scientific studies, there are a number of empirical studies on the action and properties of the new special fuel for diesel engines, including by the commercial vehicle manufacturers IVECO and Scania. The fuel is also used successfully in TDI engines in motorsports. Even the German airline Lufthansa has already used the basic substance HVO from Oecopower D® during a six-month test phase with a positive assessment.

Large construction companies, such as Möslle Bau in Leutkirch, are also using Oecopower D® very successfully in diesel-powered machines and equipment. "The issue of reducing pollutants for humans and nature plays a very important role for us. In particular with respect to protecting our employees, who work with these machines and equipment every day,"

the renewable diesel fuel from specially equipped filling systems with a special customer card, e.g. at the AVIA XPress station in Freudenstadt.

"As Oecopower D® is compatible with conventional diesel and can be mixed with it, there are no problems if our vehicles are filled with Oecopower D® in Freudenstadt and then have to be topped up with normal diesel at filling stations during longer journeys," emphasises Gerals Wölfel, Sales Manager at Oest. "But most customers currently buy our Oecopower D® in tanks, barrels or small 20-litre containers."



MORE SERVICE – LOWER COSTS

There is great optimisation potential in the supply of fuel, energy and heating fuel for commercial companies. The focus here is not only on individually tailored prices for grid-bound energy, but also on process-optimised procurement and logistics solutions in the field of fuel supply.

Customers of the Oest Energy team in Freudenstadt benefit from the service-oriented collaboration, ideally networked logistics and a competent team which strives for maximum customer satisfaction with great commitment, experience and an overall view.

Saskia Weegels has been heading up this division of Oest for many years and attaches great importance to long-term, lasting cooperation with her customers. Her business philosophy does not include attracting electricity and gas customers with extremely low “lost leader” offers and then balancing this with gradual or hidden price increases, as some competitors do. “Instead, we focus on fair, transparent prices on which our customers can rely in the long term,” emphasises Saskia Weegels, and continues: “This also applies to fuels. Our terms are very attractive, but they are not dumping offers below the market prices. The cost advantages for our customers arise

from purchasing advantages for Oest as an AVIA partner and from a sophisticated service and logistics concept that has been developed over many years. With an eye on the daily fluctuations of the worldwide crude oil markets and price developments, it is our procurement and delivery structures in particular that allow us to directly supply customers with high-quality refinery products – with attractive terms.”



Market monitoring – basic for good purchasing terms.

Albert Kiefer from Gebr. Kaltenbach GmbH & Co. KG in Dornstetten appreciates this and enjoys the reliable cooperation with Saskia Weegels and her team. “We have been buying fuels from Oest for many years. The close contact, transparency and good flow of information as well as the smooth service provided by the Oest Energy team make me feel that I am well looked after and that I can always rely on very good purchasing terms. Because of course we do always look at the price as well. After all, any company depends on economical purchasing. Having a reliable, trustworthy partner means less work for daily research and price comparisons. This really reduces my workload, especially as I can always rely on the availability and punctual delivery of Oest products – even if the market is turbulent or for urgent deliveries at short notice.”



Reliable logistics ensure good prices and availabilities.

OEST ENERGY



FUELS AND HEATING FUELS FOR COMMERCIAL CUSTOMERS

Oest offers all standard fuel and heating fuel types. AVIA heating oils and diesel are climate-neutral thanks to CO₂ compensation – without additional costs for customers.

The range of heating oils offers low-sulphur and sulphur-free qualities as well as premium and bio heating fuels. The fuel range includes not only classic diesel and petrol types but also pioneering renewable fuel alternatives. This includes, in particular, highly developed

synthetic diesel fuels, such as AVIA GTL fuel (Gas To Liquid), R33 Blue Diesel and Oest Oecopower D®.

R33 contains one third renewable components. GTL fuel is produced from natural gas and impresses with its extremely clean combustion – including the 100% renewable Oest Oecopower D®. This diesel fuel is based on vegetable waste which would otherwise go to landfill. More on this in the article on page 14.



GAS & ELECTRICITY – ALSO FOR PRIVATE HOUSEHOLDS

Private households can also purchase natural gas, electricity and green electricity directly from Oest. And it is very much worth it – not just because of the attractive terms. Many satisfied customers particularly appreciate the good customer service throughout and the reliable personal contact.

This also includes Oest taking care of all formalities when a customer changes to Oest. The Energy team in Freudenstadt handles the entire process for the customer – uncomplicated, reliable and convenient, without any risk.



Three apprentices from the Oest Group lecture on topics from their apprenticeship.

APPRENTICES LEARN FROM APPRENTICES

AlbA stands for “Auszubildende lernen bei Auszubildenden” [German for “apprentices learn from apprentices”] and has been a successful cooperation project between the Eduard Spranger school in Freudenstadt and regional companies for several years. Apprentices in their second year present their company to fellow students and lecture on different topics from their apprenticeship.

The AlbA project offers students at the vocational school an opportunity to gain insights into the companies and their processes. The apprentices in turn learn how to organise themselves for these project days, how to prepare topics methodically and how to present these.

The AlbA project day at the Oest Group was recently offered for two classes of the same year group and presented by three Oest apprentices. The day started with a presentation of the Oest Group and a guided tour of the company.

The following lectures from the future business management assistants focused on hazardous goods, quality assurance, production and logistics but also covered sustainability aspects, ISO and environmental certifications. Students and the accompanying teachers were impressed by the sheer number of legal requirements, the high level of safety measures and the research and development for sustainable product innovations.



Apprentices and DA students from the Oest Group.

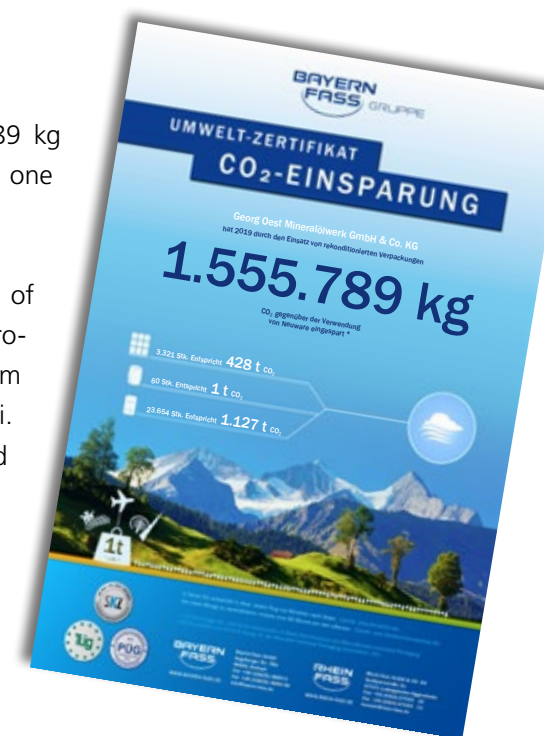
OVER 1,500 TONS OF CO₂ SAVED

Oest offers a number of lubricant products in reconditioned barrels and IBC containers. The special processing allows these containers to be reused.

The labelled RECO containers offer not only cost advantages for customers – they are, most importantly, environmentally friendly and save resources. Any small blemishes on the containers which have been reused several times are accepted for the sake of the environment.

This allowed 1,555,789 kg of CO₂ to be saved in one year.

To illustrate: One ton of CO₂ corresponds approximately to a flight from Munich from Dubai. Around 80 trees would have to be planted to compensate for the associated CO₂ emission.



IN FOCUS

A CLEAN AFFAIR – REDUCED EMISSIONS AT CART TRACKS

The areas of application for the low-pollutant, environmentally friendly Oest special fuels for two-stroke and four-stroke engines are very versatile. Oecomix 2T is primarily used for power saws and other equipment in forestry and landscaping, while Oecokraft 4T has proven successful for all air-cooled four-stroke engines, including motocross motorcycles and karts.

At indoor kart tracks in particular, the low-pollutant emissions from Oecokraft 4T ensure significantly cleaner air and better protection for drivers, helpers and spectators. The four-stroke fuel also impresses with lower consumption and less engine wear while maximising performance and optimising acceleration. In addition, excellent combustion and engine cleanliness reduce service costs. The kart track owners were also impressed by the very good cold starting properties.



Oest Oecokraft 4T is being used successfully at kart tracks.

The focus, however, is on the virtually odourless and smokeless combustion and on the minimisation of fuel vapours and harmful emissions. Oecokraft 4T is classified as environmentally safe. It is free from benzene, aromatics and sulphur.

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