

**CELEBRATING
OUR 100TH
ISSUE**



To mark its 100th issue, EuroBulkSystems has launched a new website (see p5 and go to www.eurobulksystems.com).



Vortex Global has added Angel Hair Traps to its equipment catalogue (see p7).



The Solids 2024 & Recycling-Technik exhibitions take place in Dortmund on 9 & 10 October (see p18).



Gercke's FEEDOS M is a high-precision feeding and dosing device for medium capacities between 20 and 3600 l/h. (see p7).

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Sustainability in the Peruvian cement industry (see p12).



Beumer has set up a production site in Reliance MET City, India (see p11).

Celebrating 100 Issues of EuroBulkSystems

Over its first 100 issues, EuroBulkSystems has undertaken a journey of innovation, excellence and collaboration with its industry partners. Editor Patrick Hicks looks forward to the next 100 issues.

In the ever-evolving world of bulk materials processing and handling, few platforms have stood the test of time and progress as well as EuroBulkSystems Journal.



Issue 1

This year, as we celebrate the publication of the 100th issue of our publication, we are not only marking a significant milestone – but also reflecting on a journey that has been as dynamic as the industry we serve.

Over the years, EuroBulkSystems has become more than just a publication; it has evolved into a trusted source of knowledge, a forum for innovation, and a bridge that connects industry professionals across Europe and beyond.

A Legacy of Excellence

From its inception, EuroBulkSystems was designed to be a beacon of excellence in the bulk handling and processing sector.

Richard Miller – our founding Editor and inspiration for the publication – recognised the need for a dedicated platform that could bring together the latest innovations, best practices, and expert opinions from across the industry.

The goal was clear: to create a publication that not only reported on industry developments – but also charted the way ahead and the future of bulk systems and materials handling.

Looking back at the early issues, it is evident that the journal was

ahead of its time. Even then, we were addressing critical topics such as the importance of safety in bulk handling, the rise of automation, and the need for sustainable practices.

These themes have only grown in importance over the years, and EuroBulkSystems has consistently been at the forefront of these discussions.

Pioneering Innovation

Innovation has always been at the heart of EuroBulkSystems.

Over the past 100 issues, we have had the privilege of showcasing some of the most groundbreaking technologies and methodologies in the bulk sector. From the introduction of advanced conveyor systems to the development of cutting-edge silo design, EuroBulkSystems has been the platform where these innovations were first introduced to the broader industry.

Our commitment to innovation goes beyond merely reporting on new technologies. We have actively sought to foster a culture of innovation within the industry by providing a platform for thought leaders and innovators to share their ideas. Through

in-depth articles, interviews, and case studies, we have helped our readers stay ahead of the curve and anticipate the trends that will shape the future of bulk handling.



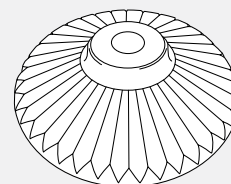
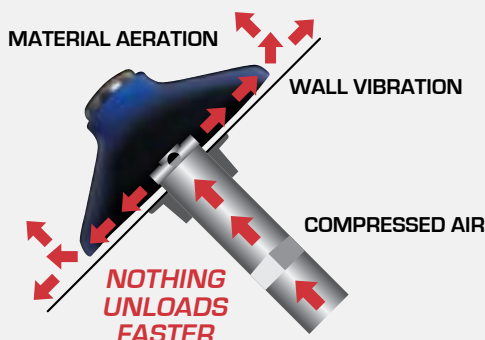
Issue 25



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Issue 50

One of the most notable examples of this is our coverage of automation and digitalisation in the industry. As early as a decade ago, we were exploring the developments and potential of automation to revolutionise bulk materials handling.

Today, as digital technologies become increasingly integral to the industry, *EuroBulkSystems* continues to lead the conversation on how these tools can be harnessed to improve efficiency, safety, and sustainability.

Building a Community

While innovation and excellence have been key pillars of *EuroBulkSystems*, our greatest achievement over the past 100 issues has been the creation of a vibrant and engaged community.

We have always believed that the true strength of the journal lies in its readers, contributors,

and partners. Together, we have built a community that spans across Europe and beyond, bringing together professionals from all corners of the bulk materials handling industry.

This sense of community is evident in the collaborative nature of the Journal. Over the years, we have worked closely with leading industry associations, exhibition organisers, academic institutions, and companies to ensure that *EuroBulkSystems* remains relevant and valuable to our readers. Our partnerships have allowed us to offer unique insights and perspectives that are not available anywhere else.

The *EuroBulkSystems* community is also characterised by its diversity. Our readers come from a wide range of backgrounds, including engineering, operations, management, and research.

This diversity is reflected in the content of the Journal, which covers a

broad spectrum of topics, from technical innovations to regulatory updates and market trends.

By catering to such a diverse audience, we have been able to foster a rich exchange of ideas and knowledge that benefits everyone involved.

A Platform for Learning and Development

Education has always been a cornerstone of *EuroBulkSystems*. We recognise that the bulk materials handling industry is constantly evolving, and professionals need to stay informed and up-to-date to remain competitive. That is why we have made it our mission to provide our readers with the information and insights they need to succeed.

Over the past 100 issues, *EuroBulkSystems* has published hundreds of technical articles, case studies, and expert opinions that have served as valuable resources for industry professionals. These contributions have not only informed our readers but have also helped them develop the skills and knowledge needed to tackle the challenges they

face in their daily work.

In addition to our regular content, we have also reported on numerous webinars, workshops, and conferences that have provided opportunities for learning and professional development. These events have been instrumental in bringing together industry experts and practitioners to share their knowledge and experiences, further enhancing the value of the *EuroBulkSystems* community.

Looking Ahead: The Future of EuroBulkSystems

As we celebrate the 100th issue of *EuroBulkSystems*, we are also looking to the future with excitement and optimism.

The bulk materials processing and handling industry is on the cusp of significant changes, driven by advancements in technology, increasing environmental concerns, and shifting market dynamics. *EuroBulkSystems* is committed to

continuing its role as a leader in the industry, providing our readers with the insights and information they need to navigate these changes successfully.

One of the key areas we will be focusing on in the coming years is sustainability. As the world grapples with the impacts of climate change, the bulk materials handling industry has a critical role to play in reducing emissions and minimising environmental impact.

EuroBulkSystems will be at the forefront of this movement, highlighting the latest developments in sustainable practices and technologies and encouraging our readers to adopt more environmentally friendly approaches in their operations.

Another area of focus will be the continued integration of digital technologies into bulk materials handling. From the use of artificial intelligence and machine learning to optimise processes to the implementation of the Internet of Things (IoT) for real-time monitoring and control, the possibilities are endless.

EuroBulkSystems will continue to explore these technologies and provide our readers with the knowledge they need to take full advantage of the opportunities they present.

A Heartfelt "Thank You"

None of this would have been possible without the support of our readers, contributors, advertisers and partners. As we celebrate this milestone, we want to extend our heartfelt thanks to everyone who has been a part of the *EuroBulkSystems* journey. Your trust, loyalty, and engagement have been the driving force behind our success, and we look forward to continuing this journey together.

In conclusion, the 100th issue of *EuroBulkSystems* is not just a celebration of our past achievements, but also a commitment to the future. We are more dedicated than ever to providing the bulk materials handling industry with the highest quality content, fostering innovation, and building a strong and engaged community.

Here's to the next 100 issues – and beyond!



Issue 75



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Your partner with vision and experience of packaging and loading systems for bulk goods. Complete systems from the planning and development of high-performance bagging and palletizing systems in logistics!

With over 33 years of experience, SSB is the industry expert in the field of bagging, weighing and control technology and offers complete bagging systems and an extensive delivery program. We supply complete systems from the silo outlet to the finished pallet. We attach great importance to professional and networked control technology with high weighing accuracy and user-friendly visualization according to industry standard 4.0. This is an important argument for many of our well-known customers. We offer unlimited service and spare parts stock for our machine programme.



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Effective dust control: greater safety, higher productivity and cost savings

BLT WORLD Inc, in conjunction with the global ScrapeTec team, plays an important role in the USA, by assisting companies during conveyor handling, to effectively manage dust emission and material spillage.

"ScrapeTec's advanced dust control systems are proving to be highly effective in many industries – not only for preventing dust formation and reducing material spill, but also to minimise the risk of explosion at critical sections along the conveyor route and transfer points," explains Ken Mouritzen, BLT WORLD Inc, distributors of ScrapeTec products, which are engineered in Germany to pristine quality and environmental standards. "Apart from the benefit of cost savings and minimal energy consumption, DustScape and AirScrape dust suppression systems are highly effective in minimising exposure of workers to environmental pollution, which is a major problem caused by fugitive dust in dry bulk handling.

"In fact, ScrapeTec systems will go a long way to assist operators in the mining industry who need to prepare for the US Department of Labor Mine Safety and Health Administration's (MSHA) new silica dust regulations. The new silica rules will require aggregates, sand and gravel mine operators to conduct exposure monitoring for crystalline silica, dust sampling and medical surveillance.

"Although the compliance date for the rule is only in April 2026, we believe it is critical that operators begin preparations now, so they are



The DustScape consists of a durable filtering cloth that is installed above the conveyor belt, to retain dust particles created by conveyed materials, while remaining permeable to circulating air.

fully compliant when the new regulations become effective. Our highly experienced specialists offer dependable solutions for specific problems at the transfer points of conveyor systems in many industries, where dust and material spillage are concerns.

"Dust is a major problem associated with conveyor systems in all sectors, particularly where workers have prolonged exposure to the hazards of dust particles. Apart from the negative effects of dust on one's health – like irritation to the eyes, skin and respiratory tracts, as well as serious lung diseases – some types of dust can also form an explosive mixture with air, which is extremely dangerous.

"It is therefore crucial that the correct conveyor skirting is used to offer maximum safety to workers and to minimise deterioration of materials being handled in order to maintain the desired level of quality."

The BLT WORLD Inc team has installed ScrapeTec's highly-effective dust suppression systems on many conveyor systems at various plants in the USA and feedback from customers is positive.

Common difficulties of traditional bulk conveyor systems include dust, material spills and contamination at the transfer points of conveyor systems. Misalignment, abrasion and subsequent belt damage are other problems.

According to plant managers, since the installation of the ScrapeTec systems, dust levels around transfer points have significantly reduced, ensuring a safer and healthier working environment. In addition, running costs are lower because there are no longer the costly energy requirements of extraction fans. The highly-effective ScrapeTec system also minimises the risk of explosions at critical sections along the conveyor route and transfer points – an important safety feature. Plant managers also note there is no longer the need for extensive cleaning operations and maintenance work on the conveyor belt is minimal.

Prior to these installations, maintenance teams needed to spend hours each day cleaning the belt periphery and all transfer points, removing unplanned material spills and the remnants of product. Various methods to cope with excessive dust and costly material spills in moist and sticky environments had been tried previously, without success. This ScrapeTec conveyor system enables teams to now spend more time on productive work at each plant.



The dust retaining filter cloth, which is manufactured in rolls, can be extended to any required length and is suitable for any conveyor belt width.

Studies indicate, that even after five years after installation and with continuous use in harsh conditions, BLT WORLD's ScrapeTec systems show minimal wear. Operational costs are also reduced because there is no need for high energy consumption, spillage collection, regular maintenance, or replacement parts.

The contact-free AirScrape conveyor belt skirting system is a highly-effective side seal that lies over the conveyor belt, without contact, and creates negative pressure on the belt, due to its specially-designed blade structure.

Because this system hovers freely above the conveyor belt, skirt friction and belt damage are eliminated and service life of every component of the conveyor is extended.

Conventional skirting is pressed against a conveyor belt to keep dust and material in the middle of the belt, but after a period, wear of the skirting and belt can be so severe, that material and dust are able to escape. The danger is fine wear particles can be ingested by workers and consumers. Material spillage at transfer points needs to be removed at great effort and cost and regular maintenance of belt skirting and transfer points is necessary.

The durable ScrapeTec system consists of non-flammable and anti-static polyurethane materials and blades made from Stainless Steel. FDA-approved materials are also available for specific conveyor handling applications.

The highly efficient DustScape – which replaces a conventional dust collector – consists of a durable filtering cloth that is installed above the conveyor belt, to retain dust particles created by conveyed materials, while remaining permeable to circulating air. This long-lasting filter cloth,

is available with different qualities, including anti-static features, for specific applications – for example, in surface or underground mining. The dust retaining filter cloth, which is manufactured in rolls, can be extended to any required length and is suitable for any conveyor belt width.

It is notable that DustScape and AirScrape operate without energy consumption, which means operational costs are significantly reduced.

The TailScape system enhances performance of the AirScrape, by sealing the transfer tail in the rear area and also works according to the Venturi concept, to prevent dust generation and material spills. The intelligent blade structure on the underside of the system, creates negative pressure in the conveying area, preventing the escape of materials. Dust is kept in the material flow by air intake.

The SureSupport system works in conjunction with DustScape and AirScrape to deliver support and stability to the belt at transfer points. Other advantages of this system include quick and simple installation, as well as reduced maintenance time and costs.

Also in the range of ScrapeTec conveyor components, is the PrimeTracker belt tracker, which eliminates other problems associated with conveyor belt systems, including misalignment, abrasion and belt damage.

Correct installation of suitable equipment ensures cost efficiency, optimum performance and safety, reduced risk of breakdown and extended service life of the conveyor system.

These advanced solutions for conveyor systems are designed for use in diverse sectors, including the handling of difficult bulk materials, like corn and feeds, cement, fertiliser, coal and minerals.

BLT WORLD and ScrapeTec experts provide an assessment and solutions service to customers, for planning and implementing projects. A technical advisory and support service enhances performance of every ScrapeTec system.

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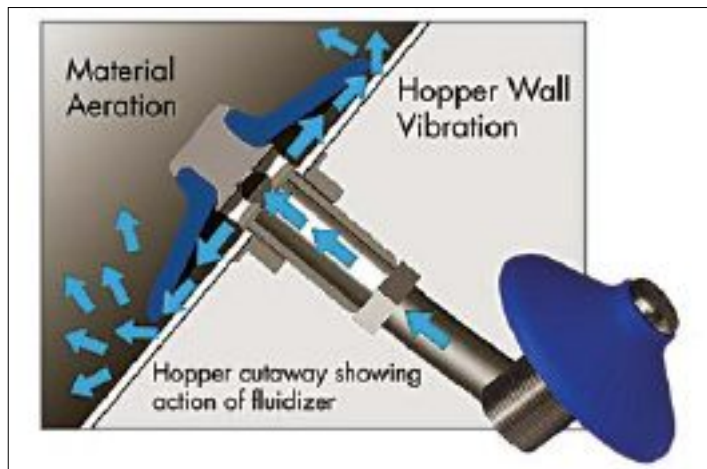
Moving a world of dry bulk materials

Solimar Pneumatics is a leading designer and supplier of aeration systems and engineered components for the dry bulk material handling industry.

Solimar's fluidisers, in two sizes, efficiently discharge powders and bulk solids for many

applications including silos, hoppers, bins and tank trailers.

The fluidisers are particularly effective at preventing rat-holing and bridging by utilising air pressure to move the material while gently vibrating the vessel wall.



Solimar's fluidizers come in two sizes.

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Solimar products are used in over 85 countries around the world assisting in the movement of hundreds of different materials.

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Marking 100 Issues: *EuroBulkSystems* launches new website

Announcing the launch of the new *EuroBulkSystems* website

We are excited to announce the launch of the new and improved *EuroBulkSystems* website, a significant step forward in our commitment to providing the bulk materials processing and handling industry with the most



up-to-date, accessible, and valuable resources.

This redesigned platform is more than just a facelift; it represents a complete overhaul of our digital presence, designed with our readers and partners in mind.

Our new website features a modern, user-friendly interface that makes it

easier than ever to navigate through our extensive archive of articles, case studies, and expert insights. Whether you're searching for the latest innovations in bulk handling technology, industry trends, or in-depth technical papers, you'll find the content you need quickly and efficiently.

One of the most exciting new features is our enhanced search functionality, which allows users to filter results by category, topic, or keyword, ensuring that the most relevant information is always at your fingertips. We have also optimised the site for mobile devices, so you can access *EuroBulkSystems* content anytime, anywhere, whether you're in the office, on-site, or on the go.



We invite you to explore the new *EuroBulkSystems* website and discover all the enhancements designed to serve you better. As we continue to innovate and expand, this platform will be central to our mission of delivering the highest quality content and connecting professionals across the industry. Welcome to the future of *EuroBulkSystems* online!

www.eurobulksystems.com

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Dust control in problem areas is a discipline we are committed to mastering. With the AirScape, we have created a side sealing system that is technologically ahead of its time and virtually eliminates dust generation and spillage at critical points. The DustBox complements the AirScape by controlling material movement and reducing air pressure at transfer points. When used together, AirScape and DustBox achieve unprecedented efficiency. Dust and spillage are completely eliminated.

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FEEDOS M for medium capacity dosing & feeding

100TH
ISSUE

FEEDOS M – a feeding and dosing device for medium capacities between 20 and 3600 l/h.

www.gericke.com

The FEEDOS M is a high-precision feeding and dosing device for medium capacities between 20 and 3600 l/h. Thanks to its modular design, it is versatile and highly adaptable to suit both the bulk material and the process.

The feeding chamber combines accessibility to enable easy cleaning – and elimination of dead corners – with a shape that facilitates even material flow, with applications ranging from hygienic requirements to medium and poorly flowing bulk solids.

The easy access and dismantling also includes the external sections, making the FEEDOS M a service-friendly machine, reducing cleaning and maintenance

The device comes with a new sealing



The feeding chamber combines accessibility to enable easy.

concept. Using lip seals on the drive shafts of the feeding tool and intramitter, the feeder is tight, even at the critical interfaces to the moving parts. This makes it a dosing device for industries meeting demanding OEL requirements or the need of WIP/CIP.

A newly developed connection to the hopper simplifies the mounting, while allowing for a robust and tight connection. Like the other feeders from Gericke, the FEEDOS M can be used as a volumetric or gravimetric device.

Gericke notes that the FEEDOS M is applicable for the food, chemical and pharmaceutical industries where, along with the highest dosing reliability, a hygienic and easy-to-maintain design is required.

Angel Hair Traps from Vortex Global



Vortex's new Angel Hair Trap.

Vortex Global, specialists in the design and manufacture of components for dry bulk material handling, has added Angel Hair Traps to its equipment catalogue – a product specifically designed to address and mitigate common production issues in the plastic industry.

The Vortex Angel Hair Trap has been developed to capture long, thin strands of plastic material – commonly known as “angel hair”, “streamers” or “snake skins” – that form during the processing of plastic pellets.

These strands can cause significant production challenges, including clogging filters and processing lines, reducing material flow rates, and contaminating final products. By effectively capturing angel hair, these traps help ensure smooth operation, protect equipment, and improve overall product quality.

By preventing clogs and damage to filters, screens, and other equipment, Vortex notes that the Traps help extend the lifespan of critical processing machinery. They also ensure that the final plastic product is free of defects and meets high-quality standards.

www.vortexglobal.com/products/angel-hair-trap

Innovation Centre showcase magnetic propulsion technology

Magway Limited, a developer of zero-emission goods transport systems, is set to showcase its innovative magnetic propulsion bulk material handling technology at Vincanton's W2 Innovation Centre in Rockingham, Northamptonshire.

This centre, adjacent to The WEB – Wincanton's automated shared user facility for high volume fulfilment, is a hub for the latest in supply chain innovation which benefits Britain's businesses.

Magway's technology enables control over the horizontal and vertical movement of loads up to 250kg, with a throughput capacity of 1,000 tonnes per hour. The system operates at less than 20% of the energy and operating costs of traditional solutions, claims Magway, while producing zero emissions.

A 2-min video of the technology trial can be seen here:

<https://vimeo.com/magway>.



Magway's magnetic propulsion bulk material handling technology.



Magway's technology enables control over the horizontal and vertical movement of loads up to 250kg, with a throughput capacity of 1,000 tonnes per hour.

Industry Updates – Every Week

Every week, EuroBulkSystems publishes a digest of the latest industry developments:

- New Products • Technical Innovations • Latest Orders •
- For up-to-date news on In-Plant Handling and Bulk Processing, visit: www.eurobulksystems.com



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Simultaneous monitoring of multiple vacuum generators

Busch Vacuum Solutions has expanded its range of OTTO Digital Services to include vacuum systems.

OTTO for systems enables the simultaneous monitoring of multiple vacuum generators in a vacuum system and the supervision of the production process to ensure that it runs reliably and with the correct vacuum levels.

"This minimises the risk of production downtime," says Busch, "and leads to significant cost savings. Accessible via a PC or a mobile device, the OTTO IoT dashboard presents a user-friendly interface for comprehensive system monitoring."

OTTO for systems provides extensive insights into the status of production processes. Customers can define parameters specific to their process, such

as process vacuum level, absorbed power or ambient temperature. OTTO measures and stores these parameters. Thus, costly breakdowns can be avoided as the ideal moment for the next maintenance is indicated. With the appropriate service contract, the analysis of the data and remote supervision of the process is carried out by Busch, on-site service for a quick fix included.

OTTO IoT kits are available to retrofit existing vacuum systems. Via an integrated electronic SIM card, the OTTO box transmits the signals from the sensors securely to the Busch cloud, where they are interpreted and sent to the OTTO IoT dashboard. OTTO for systems can be operated as a stand-alone solution or integrated into the Busch control system.

www.buschvacuum.com



OTTO for Vacuum Solutions.

Water-soluble cement bags to Balearics

Packaging and paper supplier Mondi has announced the Spanish launch of its SolmixBag in collaboration with Cemex, by bringing it to the building industry on the Balearic Islands of Ibiza, Mallorca and Menorca.

Cemex, a global buildings materials company, and Mondi established a partnership during the past 12 years, kicking off the recent collaboration about SolmixBag in 2021. Cemex was looking for a sustainable cement bag to meet legal requirements on the Spanish islands regarding landfilling and incineration of waste, as well as drive its own sustainability goals. Jointly, the two global companies found a fit-for-purpose solution, achieving zero waste

with the introduction of SolmixBag, complying with the extended producer

responsibility (EPR) for the packaging.

SolmixBag is a one-ply paper bag made from 100% kraft paper which stores and transports dry cement, screed and coarse pre-mixes: its ingenious design means that it disintegrates during the mixing process, eliminating dust and waste on the building site. The bag is resistant to punctures and dissolves when it gets in contact with water in the cement mixer, where the fibre packaging integrates with the cement.

SolmixBag runs on existing filling machines, providing the same strength and shelf-life as conventional paper bags in a range of sizes.

www.mondigroup.com



Mondi brings water-soluble cement bags to Balearics.

Beumer Group extends operations in South America

Beumer Group has extended its presence in South America with the integration of the former FAM operations in Brazil, Peru and Chile.

The move follows the acquisition of FAM Minerals & Mining GmbH in 2022. Now known as Beumer Group South America, the former FAM operations have become an integral part of the Beumer family and will offer customers access to the full range of Beumer automated material handling solutions and services.

Continuity of service is assured as Paulo Costa, former head of FAM operations in the region, has been appointed as the new CEO of Beumer South America.

www.beumer.com



Paulo Costa, CEO of Beumer South America.



Condale Plastics hosts UKWA CEO

Condale Plastics, UK manufacturer of extruded plastics, recently welcomed Clare Bottle, CEO of the UK Warehousing Association (UKWA), as part of her nationwide tour celebrating the association's 80th anniversary. The visit – number 44 of 80 on the "Around the Warehouses in 80 Visits" tour – highlighted the crucial role of extruded plastics in various sectors across the UK.

During her tour, Clare was given an in-depth look at Condale Plastics' production processes, from custom tooling design and fabrication to creating diverse plastic products. She observed the intricate techniques involved in shaping various plastics, including recycled PVC windows and other materials, into complex forms used in applications ranging from lighting and shop fittings to medical devices and aerospace components.

www.condaleplastics.com



During her tour, Clare was given an in-depth look at Condale Plastics' production processes.

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Guidelines to master leak detection



Leaks in vacuum systems can cause considerable damage in sensitive industrial processes. The vacuum pump's ability to generate and maintain the desired vacuum level is compromised as the process gas escapes the pump or contaminants, such as air, dust and debris, enter. This leads to accelerated wear and tear of internal components like seals and gaskets, and the vacuum pump may fail or require more frequent servicing. As a result, energy bills and overall operating costs increase drastically, while the output quality suffers. That is why helium leak detectors play a vital role in safeguarding the integrity of your equipment.

Not all leaks are obvious. Some may be extremely small or hidden, requiring a systematic approach to detect them. Adopt our seven best practices to conduct accurate and effective leak detection tests.

Busch Vacuum Solutions has developed these guidelines to enhance the efficiency of leak detection process using the tracer gas helium.

1. Training and safety precautions

Training operators to properly use a leak detector is essential to collect accurate test results and will increase the longevity of your testing equipment. If operators know how to use a leak detector correctly, they are less likely to record incorrect data. This can be achieved by thoroughly studying the instruction manual and guidelines, as well as participating in training courses.

Additionally, it's imperative to set and adhere to safety protocols. This includes the proper use of personal protective equipment (PPE) when working with helium and other potentially hazardous substances. For example, one needs to be careful when handling helium gas as it can act as an asphyxiant in high concentrations. By combining proper training, understanding equipment specifics, and following safety guidelines, you can optimise the performance of the leak detector while maintaining a secure working environment.

2. A stable testing environment

Leak detection tests must be performed in a stable environment with a consistent temperature for precise results. Higher temperatures cause helium molecules to expand, leading to lower gas density. This

increases the buoyancy and dispersion rate of the gas. On the other hand, colder temperatures make helium molecules contract, thereby increasing gas density and making the gas move at a slower rate. These changes in the behavior of the tracer gas affects how it moves through or around the test object, impacting the accuracy of the leak detection test. A stable environment ensures the gas behaves consistently, leading to reliable outcomes. Additionally, keeping both the equipment and the testing area clean is crucial. Dust, oil, and other particles can interfere with the reliability of the leak detection equipment.



3. Correct set-up

Prepare your test object before beginning the leak detection process. A test object can range from a pipeline to a container or other pieces of equipment. It should be clean and dry. Any gases or substances that might interfere with the accuracy of the leak detection process need to be evacuated. This ensures that the results are reflective of the actual condition of the test object. Then zero your leak detector so that it starts from a clean slate. Without proper zeroing, it might not recognise small leaks, leading to inaccurate results. Further optimise your equipment's performance by adjusting the sensitivity settings based on the expected leakage rate. This will minimise false positives.

Next, pick the testing method that suits your object and process best. For example, a spray test is suitable for components under vacuum. Helium is sprayed onto the surface of the test object. If there is a leak, the incoming molecules

of the tracer gas will be drawn into the leak detector, which measures the leakage rate. For components under pressure, a sniffing leak detection test is most suitable as it directly detects escaping gases. Helium is pumped into the test object and a sniffer probe, a tool designed to detect and locate leaks, is guided over it. The sniffer probe functions similarly to a metal detector, only it's searching for traces of helium to localise the leak. Both test methods are easy to perform and deliver accurate results.

Take a systematic approach while conducting the leak detection test to pinpoint the exact source of the leak, and

don't rush. Most importantly: Do not move the leak detector when it is in operation. The turbomolecular vacuum pump may be disrupted, potentially causing damage to the equipment or compromising the accuracy of the leak detection process.

4. Repairs and optimisation

Once a leak has been detected it should be repaired immediately. Afterwards, another leak detection test should be conducted to check if the leak has been completely and effectively sealed. It is crucial to conduct regular leak detection tests as a preventative measure. This proactive approach ensures that the detection methods remain optimised and aligned with the industry standards, contributing to a consistently effective leak detection system.



5. Recording data

It's essential that you maintain meticulous records of each leak detection test. Each test needs to be documented in a clear and concise manner, including details such as the date, time, location, the equipment that was used, and the result and severity of the leak.

our well-being. Thus, it is crucial to properly recycle or dispose of helium gas cylinders in accordance with local regulations. Furthermore, it's important to stay up to date with the industry standards and regulations governing leak detection and emissions control. This will aid in minimising the release of volatile



Make sure that the leak rate units are properly understood and recorded to prevent any misunderstandings. This will enable a comprehensive comparison between the detected leakage rate and the acceptable limits for the specific application. By systematically organising the data over time, you can leverage historical comparisons to identify trends and make informed decisions and prevention strategies.

6. Maintenance and calibration

Follow the manufacturer's recommended maintenance schedule to keep your leak detector in optimal working condition. Additionally, a routine calibration helps maintain the precision of your equipment. Extensive testing is carried out during calibration to check if the gas detector is still sensitive and responsive to the tracer gas. Adhering to these guidelines will enable your leak detector to continuously deliver accurate results while increasing its longevity.

7. Environmental considerations

Proper waste disposal contributes to a cleaner environment, reducing potential health risks and hazards that may impact

organic compounds and hazardous air pollutants from industrial processes into the atmosphere, reducing negative effects on our environment.

Adopt these seven best practices and master leak detection. Adhering to these methods not only guarantees efficient leak detection but also ensures the safety of your process, maintains the quality of the output, and promotes the safe functioning of the vacuum pumps. Focusing on training, safety protocols, and a stable testing environment ensures that your equipment delivers accurate results, and your working environment remains safe. By keeping careful records, doing regular maintenance, and calibrating your leak detector, you can optimise your process and increase the longevity of your equipment. Lastly, it's vital to consider the environment when disposing of waste such as helium gas cylinders. Make sure that you comply with the local rules and regulations. By following these practices, both experienced professionals and beginners in leak detection can locate leaks efficiently, keep the workplace safe, and contribute to a cleaner and safer industrial area.

www.buschvacuum.com



Beumer sets up production site in Reliance MET City

Beumer Group is continuing on its growth path and expanding its commitment in India. The manufacturer of material handling solutions is investing over 2 billion Indian Rupees (INR) in a new, state-of-the-art production city in Reliance MET City, Jhajjar. Laying of the foundation stone took place on 27 June 2024, with representatives of Beumer Group and Reliance MET City attending the ceremony.

The new production site will further strengthen Beumer's global factory footprint as well as boosting the continued success of its Beumer India subsidiary. With an area of more than 10 acres, the new plant will be placed at a strategic location, with Reliance MET City offering infrastructure and support. Beumer will be the first German company to set up production in the development zone.

Construction work will commence this summer, the inauguration of the new plant is scheduled for September 2025.

Beumer Group has been active in India since 2003. Initially catering to the cement industry exclusively, Beumer India has grown significantly over the years and now offers solutions for the airport industry, minerals and mining, for automated warehouses and distribution centres in the retail industry as well as in the areas of e-commerce and courier, express and parcel. In addition, Beumer India is also providing engineering support to the group's global network.

On the product side, Beumer India has been a trailblazer of new bulk as well as discrete material handling technologies to India, for example: high-capacity, high-speed automatic loop sortation for passenger baggage, fully automated truck loading for cement bags, high-efficiency bulk material transport, as well as curved belt and pipe conveyors.

Over the years, Beumer strengthened its position in India through various steps, such as diversifying to all business segments as global operations, acquisition of ENEXCO Technologies India, FAM India and the establishment of a modern manufacturing unit at Naurangpur,



Ceremonial laying of the foundation stone. The new Beumer production site in India is scheduled to start operations in September 2025.



Rudolf Hausladen, CEO of Beumer Group, at the laying of the foundation stone together with Dr. Shrivallabh Goyal, CEO and WTD of Reliance MET City.

Haryana.

"This expansion reflects Beumer Group's strategic focus and commitment to long-term success in India. The new production site plays an important part in our global factory footprint, strengthening our position as a quality leader and partner of choice for our customers", said Rudolf Hausladen, CEO Beumer Group. "Our new production site at Reliance

MET City offers a convenient ease of business and synergy in approaching infrastructure and facilities with a vision towards sustainable development. Setting up a manufacturing unit in the context is truly 'plug and play', with Reliance staying true to its goal of developing a 'Model Economic Town'", said Nitin Vyas, Cluster Asia CEO, Beumer Group.

www.beumer.com

Lindner establishes India subsidiary

Lindner is continuing its international expansion with the foundation of Lindner Recyclingtech Bharat (India) LLP, headquartered in Delhi. Together with Chirag Verma, Co-owner of Lindner Bharat, and Ganesh Karankal, sales director of plastics recycling, the aim in this dynamic environment is to develop sustainable recycling solutions for the waste and plastics industry.

India, with its 1.4 billion people, is the second most highly populated country in the world and is presently the fifth largest economic power. While about 62 million tonnes of waste is produced every year and rising, the rate of recycling, which varies depending on the type of waste and

region, still has growth potential. A range of initiatives by the Indian government are intended to raise the population's awareness of this issue and help to increase the amount of waste recycled. However, as well as regulation, recycling requires appropriate technologies so that the wide range of reusable materials – including plastics, electronic scrap, and commercial, industrial and domestic waste – can be fed back into the circular economy.

"By founding Lindner Recyclingtech Bharat we want to contribute to returning greater quantities of reusable materials back into the loop or the circular economy. This needs the right shredders and system solutions as well as the relevant expertise.

Together with Chirag Verma and Ganesh Karankal, who are both experienced and respected businessmen, we wish to promote the expansion of sustainable recycling solutions in the Indian market and contribute our expertise," says Manual Lindner, CEO and owner of Lindner Recyclingtech.

The founding of Lindner Recyclingtech Bharat adds another site to Lindner Recyclingtech's subsidiaries in Germany, the USA, Singapore and France. Lindner, with its mobile, semi-mobile and stationary shredders, also provides turnkey solutions for the processing of refuse-derived fuels (RDF) and plastics recycling. "Lindner has been manufacturing RDF successfully for many years. With Lindner Washtech we also have a wealth of experience in plastics recycling, which will continue to grow thanks to the cooperation with Erema, the branch leader in extrusion," asserts Ganesh Karankal, sales director of plastics recycling.

Chirag Verma, co-owner of Lindner Bharat, is also enthusiastic about the partnership. "India is a densely populated country with huge volumes of waste. According to estimates, the mountain of rubbish will rise to more than 400 million tonnes by 2050. There is a lot to do in the area of recycling. Together with Lindner, we want to support the efforts of the waste and recycling economy in India and are looking forward to this challenge."

www.lindner.com



Lindner establishes a new subsidiary in India. Pictured, from left to right: Patryk Max, Chirag Verma, Ganesh Karankal, Gerhard Gamper, Manuel Lindner.

NetterVibration celebrates global network anniversaries



NetterVibration is currently celebrating the anniversaries of three subsidiaries. The vibration technology manufacturer distributes a wide range of products worldwide through six international subsidiaries with a long-standing network of representatives.

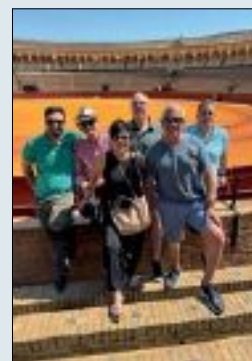
The company responded to customer and market globalisation early on – and today benefits from having a well-established and competent network of trading partners.

NetterVibration established its first overseas subsidiary 25 years ago, in 1999. NetterVibration Schweiz GmbH in Rheinfelden (Switzerland), a former sales partner's team, was integrated closely into the parent company and has been offering products, advice and service to customers in Switzerland and Austria ever since.

The Spanish employees of NetterVibration in Villabona also have reason to celebrate: NetterVibration España S.L. has now existed for ten years.

NetterVibration Australia Pty Ltd has

also been in business for five years. The youngest subsidiary in France is currently celebrating the significant strengthening of the site with new offices, the expansion of the team and the appointment of a local managing director.



10th anniversary celebration for NetterVibration España Sevilla.

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Leadership change at BHS-Sonthofen US site

BHS-Sonthofen has appointed Garrett Bergquist as new President and General Manager of BHS-Sonthofen Inc., effective July 8, 2024. Based in Charlotte, North Carolina, BHS-Sonthofen Inc. is the wholly owned subsidiary of BHS-Sonthofen located in Sonthofen, Germany.

"We are delighted to welcome Garrett Bergquist back to BHS," says Dennis Kemmann, CEO of the BHS-Sonthofen group of companies. "Garrett's extensive background in chemical engineering and his profound understanding of the industry make him the ideal leader for our team in North America."

<https://www.bhs-sonthofen.com/en>



Garrett Bergquist: the new President and General Manager of BHS-Sonthofen Inc.



Based in Charlotte, North Carolina, BHS-Sonthofen Inc. is the wholly owned subsidiary of BHS-Sonthofen located in Sonthofen, Germany.

New level monitoring indicator

UWT, the specialists in level measurement technology, has expanded its level monitoring portfolio with a new plug-on display for indoor and outdoor use.

The local level indicator –

designated NT 9000 – of the UWT NivoTec series offers a flexible and simple solution to visualise levels of liquids and solids, thereby enabling optimised monitoring of your measurement points.



The NT 9000 level monitoring indicator from UWT.

Industry Updates – Every Week

Every week, EuroBulkSystems publishes a digest of the latest industry developments:

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Benefits of Overband Magnet armoured belts



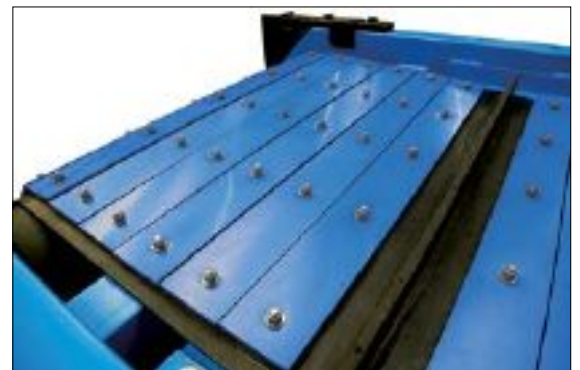
Bunting ElectroMax Overband Magnet with an armoured belt.

The highest wear part on an Overband Magnet is the belt that transfers the separated metal away from the conveyor and into a collection area. In order to reduce such wear, Bunting developed a special lightweight armouring for the rubber belt. This type of excessive belt wear occurs in heavy-duty applications seen in mining, recycling, and biomass power plants.

In operation, an Overband Magnet sits over a conveyor transporting materials such as aggregate, waste, shredded wood or mined ore. The magnetic field of the Overband Magnet, generated by either a permanent magnet or an electromagnetic block, attracts ferrous metal from the conveyed material up and onto the revolving self-cleaning belt. Rubber upstands on the belt catch the lifted metal, transporting it away from the conveyed material into a separate collection area.

The force of the ferrous metal striking against the self-cleaning rubber belt is significant due to the magnetic

attractive energy of the permanent or electromagnetic block increasing as the metal moves closer to the face. This



Bunting's Permanent Overband Magnet with an armoured belt.

means that the metal is accelerating into the belt. The moving belt becomes

for the belt. There were other options, including special wear-resistant belt coatings and other types of rubber belt. However, the armouring provided better protection, significantly lengthening belt life.

The armouring on the rubber belt is comprised of high-density polyethylene (HDPE) slats. Each slat is 100mm wide and 10mm thick, with a length to suit the model of overband magnet. The slats are fastened to the belt using special 304 stainless steel elevator bucket bolts and nyloc nuts.

"The introduction of this design of armoured belt has proven very popular," explained Adrian Coleman, Bunting's Technical Director. "Other types of belt armouring have proven unsuccessful, but the HDPE has worked exceptionally well."

www.bunting-redditch.com



Close-up of the armoured belt.

Sustainability in the Peruvian cement industry

A cement plant in Arequipa has recently taken a significant step

towards enhancing its environmental controls by installing the AirScape

conveyor belt skirting system at six of its transfer points – with more scheduled to be installed.

Whether in mining, or gypsum or cement production, the cost factors relating to the transfer points of conveyor systems – downtime, cleaning costs, maintenance, wear and tear of materials or health risks for employees – are known, but often go unnoticed. As a result of the cooperation with ScapeTec, the cement plant in Peru has now discovered the sustainable effect of the new contactless conveyor skirting AirScape in combination with the DustScape.



The cement plant in Arequipa, Peru.

www.scapetec.com

New secondary conveyor belt cleaner

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A latch pin releases the cartridge from the mainframe allowing cartridge removal and replacement.

Belt conveyor accessories manufacturer Martin Engineering has launched a new secondary conveyor belt cleaner, aimed at reducing dusty carryback and enabling lower maintenance time. Designed to withstand the stress of heavier loads carried on wider, thicker belts at higher speeds, the Martin SQC2S Orion Secondary Cleaner features individually cushioned tungsten carbide blade cartridges for effective cleaning without risk to the belt or splices.

"A two-tiered tensioning system," explains the company, "means minimal adjustments and monitoring throughout the life of the blade. The heavy-duty blades are mounted on a slide-in/slide-out assembly for faster and safer one-worker external servicing. The result is improved belt cleaning with less dust and maintenance for greater workplace safety at a lower cost of operation."

Dave Mueller, Conveyor Products Manager for Martin Engineering, reports: "We field tested the Orion over several

months side-by-side with competitor designs in punishing mining environments and found that the new design significantly outperformed the competition. At the end of the testing period, customer participants started the process of replacing all their heavy-duty secondary cleaners with the Orion. We now view this design as the future of our secondary cleaner line moving forward."

Secondary cleaners play an essential role in the belt cleaning process by significantly reducing the volume of dust and fines dropped as carryback on the belt return. Primary cleaners release most of the abrasive material remaining on the belt after discharge. Located below the head pulley just behind the primary, secondary cleaners scrape off the fines and dust that hide in cracks and divots in the belt. Carryback is attributed to many environmental and operational issues such as air quality violations, fouling of rolling components and machinery, and increased labor for cleanup and



The mounting assembly firmly secures the secondary cleaner to the stringer.

maintenance.

The SQC2S Orion Secondary Cleaner is appropriate for all bulk handling material applications. The unit is made up of individual 6 in. (152.5 mm) blades mounted on a square steel tube assembly. Not designed for reversing belts, it is suitable for 18 - 96 in. (457 - 2438.5 mm) belt widths, belt speeds up to 1200 fpm (6 mps), and temperatures up to 250° F (121° C).

"What sets this unit apart from others on the market is the innovative, dual tensioning system with independent heavy-duty tungsten blades which are game-changing design features," Mueller explained. "The first level of tensioning is supplied to the entire assembly using the heavy-duty SQC2S Tensioner which applies light upward torque evenly across the belt profile for less friction and no wear on splices."

The second level of tensioning is on the individual blade assembly. Each Orion blade assembly is attached to a steel square tube assembly which is secured a mounting plate. The square tube houses a rubber tensioner with a torsion arm bolted to each side. A specialised tungsten blade is attached to the arm. The whole system is mounted at a 90-degree angle then tensioned so each blade is vertical and perpendicular to the belt. As the belt runs, each blade assembly adjusts independently to precisely match the belt's profile, permitting them to compensate for camber, flaws/blemishes, and stubborn material stuck to the belt's face. To accommodate belt cupping and other uneven surfaces, the blade assemblies can be individually adjusted to match the belt profile.



Cartridges with individual tensioning improves cleaning efficiency and effectiveness.

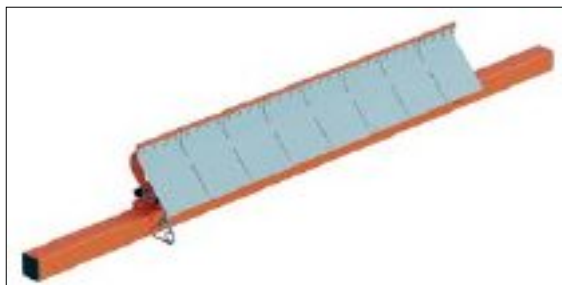
The blades are specially designed for heavy-duty abrasive applications in both dry and wet environments. Tested on hard rock and slurry belts, the Orion blades offered superior cleaning results with a longer equipment life. This is due to the rugged tungsten carbide core surrounded by mild steel. Blades are also available in stainless-steel for specific corrosive materials.

The blade design features an attached deflector shield made from polypropylene or rugged nylon for high temperature applications. Mounted directly to the blade in an outward scoop design, the shield ushers loosened material away from the mainframe and toward the

discharge chute. This mitigates buildup on the assembly, extending the blade's effectiveness and reducing the amount of maintenance.

Safety and ease of maintenance is a key feature and a core priority for all Martin Engineering designs. The slide-in/slide-out design allows a single worker to perform maintenance with easy access outside of the conveyor structure, eliminating the need to crawl underneath or awkwardly reach inside. This greatly improves workplace safety and reduces the amount of time and labor required for maintenance, significantly lowering the cost of operation.

www.martin-eng.com



Deflector shields usher carryback into the discharge chute to prevent fouling the mainframe for easier maintenance.



Slick heavy duty deflector shields improve performance from wet applications that experience buildup.

Electric sampler for bulk goods

The PowderProof electric sampler with horizontal lance has been developed by Bürkle GmbH for the food, pharmaceutical, chemical and agricultural industries where contamination-free sampling of bulk materials in large quantities is essential.

In situations where access to the container from above is restricted or undesirable, Bürkle notes the sampler provides the solution; it is suitable for sampling from packaging that can be pierced from the side, whether

from big bags, sacks or drums. The horizontal lance allows accurate sampling of free flowing powders and granules.

Large sample quantities can be obtained in a very short time. The robust drive unit combined with an interchangeable lance and spiral conveyor allows flexible sampling from a variety of bulk materials.

With the PowderProof sample collector, both target point and all-layer samples can be taken quickly and conveniently. This enables

quality control, which begins with the incoming goods inspection.

The lance tip is specially designed for good gliding and easy penetration into the material, even through narrow container openings.

Sample material is delivered through the lance directly into the sample container, preventing contamination of the sample. A comprehensive range of accessories enhances ease of use and safety during sampling.

www.buerkle.de/en/samplers_for_bulk_goods



The horizontal lance allows accurate sampling of free flowing powders and granules.



The lance tip is specially designed for good gliding and easy penetration into the material.

TUF-LOK™ PIPE & TUBE COUPLINGS

Tuf-Lok ring grip pipe and tube couplings are rugged, heavy duty, self-aligning and self-grounded couplings with a high end pull. They can be used for almost any application where pipe or tube ends need to be connected. The Tuf-Lok self-aligning couplings install quickly and easily with little effort.

Features

- Self-aligning
- Self-grounding
- High pressure rated
- Full vacuum rated
- Stainless or mild steel
- Usable on thin or thick wall pipe or tube
- Low cost
- Reusable
- Absorbs vibration
- Externally leakproof



Tuf-Lok (UK)

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Gericke introduces the “GFS LAB”

Continuous manufacturing of pharmaceutical oral solid dosage forms (OSD) improves product quality, reduces drug shortages and allows for shorter development times with reduced API consumption. But every new drug starts on a small scale.

The Gericke Formulation Skid (GFS) is a fully automated continuous manufacturing, dry/wet granulation, capsule filling or standalone unit operation method for blending excipients and API upstream compaction. The system permits testing of new products and to learn about its advantages hands-on.

It is available in two versions: Continuous and Mini-Blending. High precision loss-in-weight feeders connect to scientifically designed compact blenders and integrated PAT solutions.

To support customers during their important first steps into the field of continuous feeding and blending, Gericke has developed a wide range

of lab sized equipment. Available as stand-alone machines or rental units the portfolio will allow a fast and agile integration of this new technology into the user's environment.

The modular concept permits full- and semi-continuous (Mini Blend), interchangeable feeders. It can be operated either standalone or integrated with into other equipment. Other features include its compact design, minimal API consumption and compliance with Code 21 Part 11 data acquisition.

The Gericke Mini Blender and Loss in Weight Feeders are also available as stand-alone machines.

All equipment is either available in one of Gericke's test centers around the world or as rental unit for on-site trials. As with all other Gericke equipment, these solutions are globally supported by the Gericke network of group companies and local partners.

www.gerickegroup.com



Gericke Formulation Skid GFS LAB.

New models in Suspended Electromagnets line

Eriez has launched its new SEV series of Suspended Electromagnets, featuring stronger magnets housed in smaller enclosures, aimed at reducing overall weight and installation costs while optimising performance efficiency.

Integrated into the Eriez SE7000 line, the new SEV models leverage “cutting-edge” wire and conductor technology to energise the magnet circuit, also requiring less coolant for operation. The new wire configuration, featuring a thin anodised insulation layer, provides superior thermal conductivity, ensuring high heat dissipation within the circuit for improved magnet performance.

Dave Heubel, Eriez Global Magnetics

Product Manager, emphasises the practical benefits of the SEV series' innovative design: “As part of our commitment to continuous improvement, we've succeeded in packing more magnet strength into a smaller footprint, thereby lowering costs and boosting productivity for customers through streamlined installations and more stable, dependable performance.”

Eriez also offers self-cleaning versions of all SEV models. Additionally, a variety of options are available, including dust hoods, coils derated for elevation, high fire point coolants, armor-clad belts and numerous other customisable features for every unique application.

www.eriez.com



The new SEV series of Suspended Electromagnetics from Eriez.

Flexicon marks 50 years

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David R. Gill, CEO, Flexicon Corporation.



Flexicon Corporation's World Headquarters in Bethlehem, Pennsylvania, USA.

Flexicon Corporation, a privately-held firm specialising in bulk handling equipment and systems, is commemorating its 50th anniversary in 2024.

“Fifty years ago, my father had the foresight to solve a simple conveying problem. Today, our company provides solutions for food, chemical, and a range of other industries with everything from stand-alone equipment to automated plant-wide systems that solve the most difficult bulk handling problems,” says David R. Gill, CEO.

Founded by William S. Gill in 1974, the company began manufacturing “flexible screw conveyors,” a term coined by the company. Their simplicity, reliability and economy made them popular not only for basic conveying jobs, but also for demanding applications previously

satisfied by more complicated and costly conveyors.

Flexicon advanced the application of these conveyors, being the first to introduce 115mm, 150mm, and 200mm diameter screw/tube combinations that elevated conveying capacity more than 10-fold in an 8-year period.

As the capabilities of its conveyors grew, so did the company's expansion into pneumatic conveying systems and tubular cable conveyors, as well as upstream and downstream equipment including: bulk bag dischargers, bulk bag fillers, bulk bag conditioners, bag dump stations, drum/box/container dumpers and weigh batching systems.

The company now offers “Quick-Ship”

delivery on popular models of flexible screw conveyors, bulk bag dischargers and bulk bag conditioners, with over 25,000 installations, offering a lifetime performance guarantee on equipment and systems.

In addition to stand-alone units, the company began engineering and manufacturing automated material handling systems complete with sophisticated control packages produced in-house for multi-point bulk storage, processing, and packaging applications, many of which involve difficult-to-handle materials, sanitary requirements, and explosive environments.

A separate Project Engineering Division manages large-scale bulk handling projects across the chemical, mineral, food, dairy and pharmaceutical industries worldwide.

To meet demand for its full line of bulk handling equipment, the company has expanded its US and overseas manufacturing operations 14 times, including the doubling of its World Headquarters in Bethlehem, PA in 2015.

Flexicon now holds 36 patents in 13 countries, operates manufacturing plants in the United States, UK, Australia, and South Africa, and maintains sales offices in France, Germany, Spain, Singapore, Indonesia and Malaysia.

“We are extraordinarily proud of our history and our people whose inventiveness, skill and dedication have propelled our non-stop growth over the last 50 years,” says Gill.

www.flexicon.co.uk



Flexicon Corporation, Lodi, New Jersey, circa 1974.

Processing technologies: “transforming pharmaceutical development”

GEA is working on smaller, more flexible continuous processing technologies, intended to transform the future of pharmaceutical development and manufacturing. At this year's AICHE trade experts from GEA — supplier of systems and components to the food, beverage and pharmaceutical industries — highlighted how the company is advancing industrial manufacturing with new technology, as well as adapting processes.

Hovione and GEA Pharma & Healthcare recently announced an industry first collaboration for the pharmaceutical manufacturing sector. Together, the two companies aim to increase the adoption of continuous manufacturing by providing enhanced capacity, flexibility, standardised equipment, improved quality and increased efficiency.

Based on a successful customer-supplier relationship spanning several years, the collaboration combines GEA's engineering expertise with Hovione's development and manufacturing experience. At the time, GEA Pharma & Healthcare's Phillip Gabb, Strategic Business Director, Pharma Solid

Dosage, noted: “Continuous manufacturing systems allow for leaner and risk-reduced development paths, leaner supply chains, increased built-in quality and, in general, manufacturing processes that are more flexible and less complex. In the context of this strategic collaboration, Hovione and GEA will combine their strengths to further advance the technology and contribute to the establishment of higher standards and new levels of market acceptance.”

For example, the ConsiGma CDC flex has been designed as a versatile system that can operate in both continuous and batch modes, offering both high and low throughput functionality.

The ConsiGma range will be further augmented with new developments to simplify routine operations, introduce automated workflows, and Smart control interfaces. This will empower operators to streamline production processes.



ConsiGma DB modules offer standalone continuous dosing and blending operations, either using a ribbon blender or a linear blender.

BHS-Sonthofen opens new test centre for process technology

BHS-Sonthofen opened a new test centre in Sonthofen on 19 July. The test centre offers expanded capacities for laboratory and pilot tests in the Process Technology division. Using state-of-the-art technologies for the process steps of solid-liquid separation, drying, mixing and reacting, the experts at BHS support their customers' test series and can perform these steps both individually and in combination.

With 450 square meters of available floor space, the new test center is significantly larger than the existing premises. "Until now, we have carried out tests separately at two locations – for filtration technology in Sonthofen and for mixing and drying technology in Herrsching," explains Dr. Simon Esser, the manager of the new test center. "In the future, we will consolidate our entire process engineering expertise with the respective technologies at one location. In addition to higher test capacities, this will also give us the opportunity to conduct combined tests."

In many process technology procedures, for instance, thermal drying is followed by mechanical liquid separation.



BHS-Sonthofen opened a new test center in the Process Technology division on July 19, 2024. With 450 square meters of available floor space, the test center is significantly.

BHS offers equipment for both process steps and can integrate both technologies at one location. In addition, the new test center creates ideal conditions for transferring process engineering know-how to the customer. Systems and equipment can be assembled on a modular basis to suit the purpose of the test, and customers can participate in the test live.

BHS will continue to use the test center in Herrsching for mixing and drying tests, allowing the company to conduct tests at both sites simultaneously in the future and avoid bottlenecks. In recent years, the company has made significant investments in staff and infrastructure development and has also expanded its testing and sales capacities in China, India, and the USA. This expansion enables laboratory and pilot tests for a wide range of applications.

www.bhs-sonthofen.com/en



At the Process Technology test center in Sonthofen, customers can participate in live trials and see for themselves that their process delivers the desired result.



"The expanded test center not only gives us greater capacity for pilot tests, but also the opportunity to carry out combined tests," comments Dr. Simon Esser, Manager Process Technology, Center.

Metal separation equipment for dry mixed recyclables

The Neath Port Talbot materials recycling facility (MRF) in South Wales, UK was designed and installed by Ken Mills Engineering (KME). The plant includes metal separation equipment designed and built by Bunting-Redditch including a Permanent Overband Magnet and Eddy Current Separator.

Ken Mills Engineering (KME) is one of the UK's leading manufacturers of MRF systems, baling presses, twin raw balers, conveyors and shredders. KME understands that every materials recycling facility (MRF) is unique based on the specific needs of the customer. The KME team designs, builds and services a MRF to suit the warehouse space, types and volume of waste material to process, or end quality requirements.

The container recycling MRF in Neath Port Talbot processes dry mixed recyclables such as film, plastic and cans. The MRF design accommodates easy future modification, allowing the council to add other separation technology, such as optical sorting, if



Bunting' Eddy Current Separator.

required. In the plant, up to three tonnes per hour of dry mixed recyclables passes through a bag splitter for liberation prior to a ballistic screen, which removes fines, and separates heavies and film. Both technologies were supplied by BRT HARTNER.

The heavies fraction passes on

through a pre-sort cabin where film and unwanted products are manually removed, before travelling on a 900mm wide conveyor under a Bunting Permanent Overband Magnet (model 10PCB6) to recover steel beverage and food cans.

The remaining non-magnetic fraction (approximately 2.1 tonnes per hour) feeds onto the 1000mm wide belt of a Bunting Eddy Current Separator for the recovery of aluminium cans. The recovered non-ferrous material passes through quality control cabin to check for any unwanted contamination.

The sorted fractions of aluminium and plastic are baled in a KME Aries twin ram baler, producing high density bales.

www.bunting-redditch.com



The KME plant in Neath Port Talbot.

Oil-free compression blower



The EBS series rotary screw blower.

The EBS 410 rotary screw blower from Kaeser is based on the development of oil-free compression blower technology, designed especially with water industry applications in mind.

With a flow rate of 10 – 40 m³/min and pressure differentials from 0.3 to 1.1, as well as a selection of motors ranging from 22 to 75 kW, the EBS 410 sets new standards in terms of energy efficiency, space-saving design and automation.

The SFC version is equipped with a frequency converter and a synchronous reluctance motor – a slip-free design that combines all the advantages of high efficiency permanent-magnet motors with those of robust, service-friendly asynchronous motors. Thanks to variable speed control, the flow rate can be adjusted as required and a control range of 1:4 is achieved, which allows exceptionally dynamic operation.

The STC version is now equipped with an energy-saving IE4 Super Premium Efficiency motor that reduces energy consumption and therefore costs, making the STC version more efficient than ever before.

With both versions, power transmission

from the motor to the air end takes place via loss-free and maintenance-free gearing, which results in an up to 8 % improvement in specific power compared to the previous model. The complete machine achieves an isentropic efficiency of up to 80%. In order to ensure that the specified performance figures are translated into reality, Kaeser guarantees performance in accordance with the strict tolerances of the ISO 1217-C/E standard.

Furthermore, efficiency remains constant across the entire control range and flow rate is virtually unaffected by pressure fluctuations. This allows the blower to be precisely regulated and adjusted at all times via the master control system. This achieves even greater energy savings and also ensures effortless integration with other control technologies.

These models will be available in two different sizes – up to 37 kW and 75 kW respectively. They can be installed side-by-side, leading to considerable space savings. The 37 kW version in particular is impressively compact, featuring a footprint of only 2.2 m² (or 2.6 m² for the 75 kW version).

Sealing leaks quickly and effectively

Safety solutions specialist Vetter GmbH has launched its latest product – Magnaseal – a magnetic urethane sheet for first responders and industry professionals to handle hazardous material leaks.

The magnetic sealing patch is designed to instantly stop liquids and gaseous substances leaking out of magnetic objects.

Key features of the Magnaseal are

its ability to adhere securely to metal surfaces, allowing for quick leak sealing for various applications. With a flexible and robust design, it can be applied to stress cracks, ruptures, and tears to metallic vessels – thus saving time and resources.

The product is available worldwide except USA, CA and PL from members of the Vetter dealer network.

www.vetter.de



Vetter Magnaseal comes in four different sizes to seal any size leak.

Service Contractors: Results Come Down to Training



Some contractors only address the effects of conveyor inefficiency, while others offer solutions to remedy the root causes of inefficiency.

High-volume belt conveyor systems are among the most hazardous pieces of equipment in any bulk handling operation. Maintaining the delicate balance between production demands and efficiency can be a challenge for any internal maintenance team. To control labour costs and improve safety, operators often enter servicing agreements with outside contractors to perform routine maintenance or to retrofit new equipment during a shutdown.

Although outside contractors may be experienced, they often lack the proper training and specific knowledge needed to offer adequate servicing and installation of modern equipment designs. Moreover, this gap in expertise might limit what recommendations to common problems they offer, causing them to default to antiquated equipment or debunked solutions. This is why it is so crucial for contractors to have ongoing training that ensures they use modern techniques, install the latest equipment and operate to workplace safety best

1. not installed properly;
2. not adequately maintained (improper intervals, over-tensioned, etc); and/or
3. inappropriately specified to match the application requirements. All these issues can be addressed through proper training.

That's why Martin Engineering ensures its team of Martin Service Technicians (MSTs) are up to date on the latest techniques and bulk handling technologies by conducting regular, intensive weeklong 28-hour training sessions like the most recent one in the spring of 2024. MSTs who have been with the company for a few months to a few decades regularly receive refreshers on their existing knowledge and to learn about new products and practices.

From deep mines to large cement plants, the goal of the training is to ensure Martin's customers experience maximum efficiency and productivity in their bulk handling systems and are provided with the highest standard of service that complies with safe workplace best practices at every step.



MSTs gather near a heavy-duty conveyor specifically set up for training purposes, ready to properly install new equipment.

practices.

Modern equipment and techniques training

As a specialist in belt conveyor accessories and material flow technology, Martin Engineering technicians are often invited to offer solutions to serious conveyor issues.

For example, a common complaint from customers is that the belt cleaners currently installed on the belts are ineffective. The perception of the operator is that the product is defective or just plain "garbage". Upon inspection, the technicians often find the equipment was simply:

"As factory-trained MSTs, it's not just our experience but also our knowledge that allows us to provide a solution for our customers," said Blayne Anderton, Martin Service Technician. "For an expert contractor to come in and do the job professionally and safely is one less stress the customer needs to worry about."

Considerations when entering a service contract

A service contract can reduce labor costs and ensure conveyor systems run efficiently. This has proven to reduce unscheduled downtime, improve system

safety and lower the cost of operation.

To improve project outcomes for every visit, service technicians should:

1. "Walk the Belt" to identify safety issues and obstacles to system efficiency.
2. Carry the correct certifications to provide the service safely.
3. Have the training required to properly complete maintenance and installation tasks.
4. Observe workplace safety best practices for every project including lockout/tagout/tryout and assistance-required procedures.
5. Possess the knowledge and experience to identify/offer economical solutions.
6. Provide a "Walk the Belt" report with photos tracking the project and any recommendations.

Martin Engineering's MST training hours are not just in the classroom but also hands on, working with operational life-sized equipment specifically designed to simulate real world environments. The most recent training week featured product training (install and maintenance), safety training (confined space entry, energy isolation, manlift, first aid and CPR), and skills training (welding). With a focus on the details, MSTs were taught the most efficient methods of installing Martin's newest products including the CleanScape Primary Cleaner and the



Retrofitted installation by a professional who is familiar with the new equipment has the fastest and best result.

Modular Transfer Point Kit.

Training resources

Martin Engineering has long been recognised as having the most comprehensive onsite and on-line conveyor training programs in the world. The training textbooks, *Foundations*, *The Practical Resource for Cleaner, Safer, More Productive Dust & Material Control* and *Foundations for Conveyor Safety*, written by established industry experts, have become standard in several vocational programs with 22,000 copies currently in circulation worldwide.

The company also has the largest free online archive of training resources in the Foundations Learning Center presented by knowledgeable and engaging

trainers. The Learning Center uses a mix of text, graphics, videos, webinars, online events, and live experts available to answer questions. These free resources have democratised conveyor safety training globally, allowing for refreshers amongst both internal staff and contractors if questions about conveyor maintenance arise.

Managing risk for better production

Operation managers and safety managers alike are encouraged to go over reports created by MSTs and consider their recommendations. The internal Martin Engineering training program has ensured that suggestions offered in Walk the Belt reports are informed observations that can help improve production and safety, as well as forecast any issues that might result in unscheduled downtime or equipment damage. This allows operators to plan future improvements and better control costs.

"Our service technicians are basically the face of Martin; they're the front line," concluded Mike Moody, Business Development Manager for Martin Engineering. "Our MSTs are factory-trained service professionals who are fully aware of everything that needs to be looked at to make sure systems are safe and working best for our customers."

www.martin-eng.com



Innovative equipment like the CleanScape have redefined what belt cleaner installation and tensioning looks like.

Innovative metal-detectable cable assemblies

Cablevey Conveyors, part of Automated Handling Solutions (AHS), the provider of automation solutions and specialised material handling equipment, has launched its new metal-detectable cable assemblies for tubular drag conveyor systems. The product is designed to meet the evolving needs of the food processing and material handling industries, aimed at providing enhanced safety and operational efficiency.

The metal-detectable cable assemblies feature metal-detectable additives in the coating and discs,



The new metal-detectable cable assemblies for tubular drag conveyor systems.

ensuring that standard metal detectors in processing plants can quickly identify potential contaminants. This solution prevents potential contamination of food products, which is crucial for maintaining the highest quality standards and consumer safety.

"Our new metal-detectable cable assemblies represent a significant step forward in addressing some of the most critical concerns of our customers," said John Adair, Director of Engineering at Cablevey Conveyors. "Major players in the food processing industry have expressed a clear need for increased safety measures and our new product directly addresses these concerns by providing an additional layer of safety and security."

The assemblies incorporate a proprietary blend of metal-detectable materials designed to ensure that in the unlikely event of any fragments of the assemblies coming loose during operation, they are detectable by conventional metal detection systems used in food manufacturing. This advancement is particularly relevant for industries where even the smallest contaminants can compromise product integrity and safety, such as in coffee, snacks and various powdered food products.

www.cablevey.com



Metal-detectable cables and discs from Cablevey.



Confined space entry requires specific training since it is one of the most dangerous activities in bulk handling.



Process optimisation using big bag dischargers & vibratory screening technology

According to McKinsey and Company, process optimisation and increased investment in equipment are two crucial pathways along which material-handling leaders can secure their competitiveness in today's markets. One essential aspect that often gets overlooked is the significant impact of **bulk material handling** on achieving this objective. Stephen Harding, the managing director of Gough Engineering, delves into the importance of specialised equipment, like big bag dischargers and vibratory screening technologies, in securing competitiveness in today's markets.

"Material handling," according to McKinsey's report, *A changing material-handling market: How to ensure continuous success*, "is only as effective as the technology it relies upon." The report refers to the "primary subsegments" of material handling equipment: cranes, forklifts and conveyers. Here, we will focus on conveyors – specifically bulk material handling systems.

Bulk material handling encompasses the movement and management of large quantities of powders, grains, liquids, or solids. It plays a crucial role at the front end of production in establishing the quality and value of products and ingredients throughout the industrial

manufacturing production processes. A prime example is the sugar industry, where efficient bulk material handling systems facilitate smooth material flow, meeting customer demands promptly, boosting productivity, while maintaining product quality. To realise these benefits, specialised equipment and systems are indispensable for efficient transfer, storage, and distribution of raw materials and ingredients at various stages of the manufacturing processes.

Transferring products

Big bag dischargers serve as a fundamental component in efficient bulk material handling. These machines enable seamless movement by transferring products from within a contained or suspended bulk bag, restoring them to their original refined or processed state for use in the customer's product production. Determining the geometry, capacity characteristics, and product behaviour within the bag are essential factors considered at the outset.

However, these material handling systems should go beyond mere transfer. These systems should incorporate value-adding processes such as product screening and in-line metal detection. By analysing the contents of big bags

for oversized or undersized materials, manufacturers ensure the consistency and integrity of their products as feedstock for subsequent processes.

This level of quality control is particularly crucial in sugar manufacturing, where screening and metal detection are essential before transferring sugar to other production stages, guaranteeing the finished product's quality for sale to end users.

Modular design

A practical example of this is when Gough Engineering offered its own solutions to support a UK-based sugar beet supply company. The company, processing approximately eight million tonnes of sugar products annually, sought a comprehensive turnkey solution to cope with the increasing demand for refined white granular sugar. Gough Engineering was approached for their expertise in big bag discharger systems, vibratory screening technology, and fast product transfer solutions.

The solution devised by Gough Engineering involved a twin big bag discharger unit, agitator paddles for optimal product flow, pneumatic valves for flow control, **Gough Vibraflo® GVF6 vibratory screens** for oversize particle separation, and a Floveyor F4 aero-mechanical solution for elevation. An automatic detection and separation unit for ferrous metal removal ensured the product's quality and integrity.

The modular design allowed for reliable and safe flow, significantly improving the transfer rates to 30 tonnes per hour, per tanker. The system's electrical controls with an Alan Bradley PLC and integrated Human machine Interface (HMI) and pneumatic process management ensured seamless monitoring and operation.

Efficiently designed material handling systems instil manufacturers with the confidence to meet customer audits and industry standards. Moreover, these systems facilitate the smooth transfer of products between different stages of production, ensuring materials' integrity and quality.

To truly optimise their production, businesses must invest in bulk material handling solutions like big bag dischargers and integrate quality control measures such as screening and metal detection.



The first step in efficient bulk material handling is the use of specialised equipment such as big bag dischargers.

These technologies streamline operations, ensure product integrity, and fulfil customer requirements.

Advanced technology

As McKinsey's report highlights, material handling effectiveness heavily relies on advanced technology, particularly in the primary subsegment of conveyors, which includes bulk material handling systems. The significance of these systems in preserving product quality

and value cannot be overstated, making them indispensable for efficient material transfer, storage, and distribution at various stages.

By incorporating specialised equipment like Gough Engineering's big bag dischargers and vibratory screening technologies, businesses can streamline operations, driving commercial growth and success in an increasingly competitive market.

www.goughengineering.com



Bulk material handling systems are vital for the sugar industry, including ensuring a smooth material flow.

Increased blending capabilities

Marion Process Solutions and Kason Corporation – part of Advanced Material Processing (AMP) – have successfully increased the blending capabilities at Almac Pharma Services' global headquarters in Northern Ireland.

The recent project involved AMP equipping Almac Pharma Services – a member of the Almac Group – with two Kason MO-B-V Centrifugal Sifters and four Marion Blenders, all customised to meet stringent industry regulations. The new installations are part of a major expansion at Almac's 32,000 sq ft custom-built facility aimed at increasing their commercial manufacturing and packaging capacities to meet the growing global demand for sachet drug products.

The installation of the new equipment has significantly increased Almac's blending capacity, allowing for larger volumes of materials to be processed more quickly. This enhancement is crucial as Almac continues to expand its reach and capabilities in serving a global client base. The reliability and technological advancement of AMP's equipment also mean improved consistency and precision in Almac's product output.



The installation features two Kason MO-B-V Centrifugal Sifters and four Marion Blenders.

Industry Updates – Every Week

Every week, EuroBulkSystems publishes a digest of the latest industry developments:

- New Products • Technical Innovations • Latest Orders •

For up-to-date news on In-Plant Handling and Bulk Processing, visit:
www.eurobulksystems.com

UWT innovations atACHEMA

From 10 to 14 June 2024, ACHEMA took place in Frankfurt am Main, Germany, where UWT presented its latest innovations in level measurement technology at the recent ACHEMA exhibition.

One of the highlights of the UWT stand was the first presentation of the new Vibranivo VN 7 vibrating liquid fork.

In addition, the new NT 9000 local level indicator from the UWT NivoTec series was also presented. The plug-on display is looped directly into the signalling cable and was developed for indoor and outdoor use. The smart display instrument therefore ensures better accessibility and can be read in easily accessible locations. Level values are output in volume, height, percentage or weight.

Another highlight was the preview of the new NivoLED 9000, a signalling



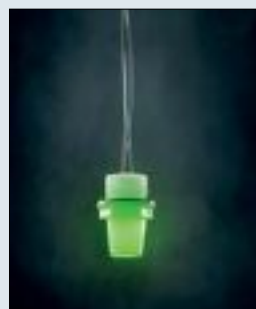
The NT 9000 local level indicator.

lamp that ensures maximum visibility and safety in hazardous areas. The NivoLED is switchable between two colours, can be connected to all devices with a relay or transistor output, and is expected to be released at the end of 2024.

<https://www.uwtgroup.com/en/blog/category/product-highlights>



The new Vibranivo VN 7 vibrating liquid fork.



The UWT NivoLED 9000 signalling lamp.

DDD Group expands into Italy

German DDD Group, based in Dorsten, North Rhine-Westphalia, took over the business activities of the Italian company Sovatec s.r.l. at the beginning of July 2024. The new subsidiary, headquartered in Stazzano (Piedmont), has been producing wire and polyurethane screens for various industries and applications, particularly for the separation of mining and quarrying products, since it was founded in 1973.

The company name "Sovatec" will be retained, as will the current 50 employees, all of whom will continue to be employed under the new management. The company will continue to design its brand identity independently, with the affiliation to DDD Group being added as a visible and publicly communicable attribute. Within the Group, Sovatec will act as a "Center of Excellence" for heavy-duty screens in the future.



The Sovatec team.

Trade fairs impress with an explosive programme

On the 9th and 10th of October 2024, the two trade fairs Solids & Recycling-Technik will once again be taking place in Dortmund with an impressive programme. In addition to the high-quality exhibition and 390 renowned technology providers, an innovative hackathon, exciting lectures on our stages and selected topical tours await trade visitors this autumn. Furthermore spectacular live explosions with top cyclist Robert Förstmann will offer additional entertainment on the open-air site. With a focus on digitalisation, artificial intelligence, sustainability and process automation, the organiser is once again focusing on hot topics in the industry.

At their next appearance on the 9th and 10th of October, the Solids & Recycling-Technik trade fairs in Dortmund will once again present an impressive overall programme. The event will highlight all facets of bulk solids, process and recycling technologies and will once again focus on highly topical issues. "In autumn, we will be focusing on digitalisation, artificial intelligence, sustainability and process automation, in line with the current pressure in the industry," emphasises Anna Lena Sandmann, head of event at Easyfairs Deutschland GmbH. Accordingly, the interest is correspondingly high, and due to the high demand, the exhibition space will expand from three to four halls this autumn. It now provides more enough space for the exhibits of the 390 renowned exhibitors and newcomers. Just like the planned topical tours, where visitors can find information on selected topics, the supporting program also reflects the key themes of the fair. In valuable expert lectures, professionals from industry, research, and academia will inform about important aspects and trends in the sectors. Many renowned companies have already announced their visit this autumn. For example, representatives from Goldbeck GmbH, Remondis GmbH & Co. KG, and Pfeifer & Langen GmbH & Co. KG are expected in Dortmund.



Exciting presentations and brilliant live explosions await the audience

As in previous events, respected expert partners will be leading the Solution and InnovationCenter programme and the key topics that have been announced so far give a foretaste of the high-calibre presentations. For example, Dr. Dirk Textor, Chairman of Graf Holding GmbH in Teningen, is organising the lecture panel on recycle usage quotas in various sectors of the economy and Thomas Fischer, speaker from the German Association for Secondary Raw Materials and Waste Disposal and Managing Director of Quality Assurance for Secondary Building Materials, is accompanying the building materials recycling panel. Keynote speakers will enrich the programme on the ImpulsCenter stage and provide inspiration on overarching topics such as employee retention, energy shortages, climate change and artificial intelligence. Of course, fire and explosion protection will not be neglected either. A panel of speakers will cover this important specialist area and premium partner REMBE GmbH Safety+Control will give a vivid demonstration of how much explosive material is involved in handling powders.

There will be a total of three bangs on the outdoor exhibition grounds on the 9th and 10th of October 2024 when top cyclist Robert Förstmann takes to the pedals for the first time and cult commentator Eddy Mielke hosts the explosive live spectacle.

First challenge provider seizes the opportunity of the new hackathon. Preparations for the "Bulk Masters" hackathon are also entering the hot phase and Zeppelin Systems GmbH is the first challenge provider. "As a global plant manufacturer, the hackathon is a wonderful opportunity for us to leave the beaten track and find new, innovative solutions," says Hans Schneider, the company's Vice President for Technology & Innovation, looking forward to the parallel event. All in all, Solids & Recycling-Technik Dortmund promises an explosive overall package that is well worth a visit.

Secure your free trade fair ticket now. It is clear that a visit to the technology fairs this autumn is once again worthwhile. Online registration for SOLIDS & RECYCLING-TECHNIK Dortmund on October the 9th and 10th, 2024, is open. Secure your free trade fair ticket now with code 1622 at:

<https://register.visitcloud.com/>

Schenck Process FPM now named Coperion

Effective 1 August, the former Schenck Process Food and Performance Materials (FPM) group of companies have officially changed their name to Coperion. The transition follows the September 2023 acquisition of the companies by Hillenbrand, the parent company of Coperion.

The integrated Coperion companies combine the strengths of multiple process industry leaders under a single brand, offering manufacturers a broader portfolio of solutions, technologies and services across the food, health and nutrition markets, such as baking, confectionery, pet food, pharmaceuticals and cosmetics, as

well as the polymers/performance materials industries such as plastics, plastics recycling, chemical, battery and minerals.

Coperion brings flagship brands together under one roof, including those that were formerly from Schenck Process (FPM) – Raymond Bartlett Snow, Stock, Baker Perkins, Kemutec, and Mucon. This allows Coperion to offer solutions to customers in a more streamlined way – with an even deeper team of process experts and collaborative problem-solvers. Customers will continue to receive hands-on service and support, including access to test and innovation centers around the world.

Future trends for A.I. in the used machinery market



Artificial intelligence creates many opportunities in the used machinery market: from price analysis to supply chain optimisation.

Whether in medicine, IT or customer service – the areas of application for AI are diverse. The first areas of application are also already emerging in the used machinery market, as these five trends show.

Artificial intelligence (AI) is playing an increasingly important role in many industries. This advanced technology is not only valued for its ability to analyse complex data and make decisions – it also offers the potential to optimise processes and automate routine tasks.

The used machinery trade in particular shows how AI opens up new opportunities and can revolutionise existing processes.

From an idea to a universal tool

The origins of artificial intelligence date back to the 1950s, when scientists began to explore the idea of thinking and learning machines.

Today, AI includes a wide range of advanced technologies such as machine learning, neural networks and autonomous systems that can make decisions on their own. These techniques have enabled the use of AI in a wide range of applications, from optimising complex production lines to improving customer interaction and supporting diagnosis in medicine.

The advantage of AI systems lies in

its ability to learn from large amounts of data and recognise patterns, making it an indispensable analysis and forecasting tool. In many industries, AI is therefore not only used to increase efficiency, but also to develop new business models and transform existing markets.

5 trends in the used machinery market

The used machinery market is also beginning to recognise and use the benefits of artificial intelligence. The following five AI trends are emerging that could have a significant impact on the trade:

- 1. Pricing and value assessment:** AI models use extensive data analyses to determine the current market value of used machines and provide realistic price recommendations. For example, age, manufacturer, machine type and maintenance periods are compared.
- 2. Maintenance prediction:** By analysing operating data, AI systems can predict when maintenance work is required. This minimises downtime and maximises the service life of the machines.
- 3. Demand forecasting:** AI can analyse sales trends and past transaction data to predict future fluctuations in demand and determine the optimal time to sell.
- 4. Supply chain optimisation:** AI can anticipate supply chain disruptions and plan more efficient transport routes, resulting in faster delivery times.
- 5. Adaptation and retrofitting through**

AI: AI can analyse existing production processes and show where used machines can be used effectively to modernise, expand areas of application or increase efficiency. By analysing an AI, possibilities for modernising and adapting used machines can be identified in order to expand their areas of application and increase efficiency.

The right service without AI

Although AI offers support in many areas and enables significant efficiency

gains, it cannot replace the personal and expert service of specialised used machinery dealers like Surplex.

With its multilingual website and worldwide network of buyers, Surplex offers an efficient platform that greatly simplifies the process of selling used machinery. From the professional evaluation to the complete handling of each transaction, Surplex ensures a smooth and professional process. The future of the used machinery market lies in the combination of human expertise and the analytical precision of AI.



How much is my used machine worth? When is the perfect time to sell? AI can help sellers with such question.

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Join us in Houston for the 2024 ITCO Meeting

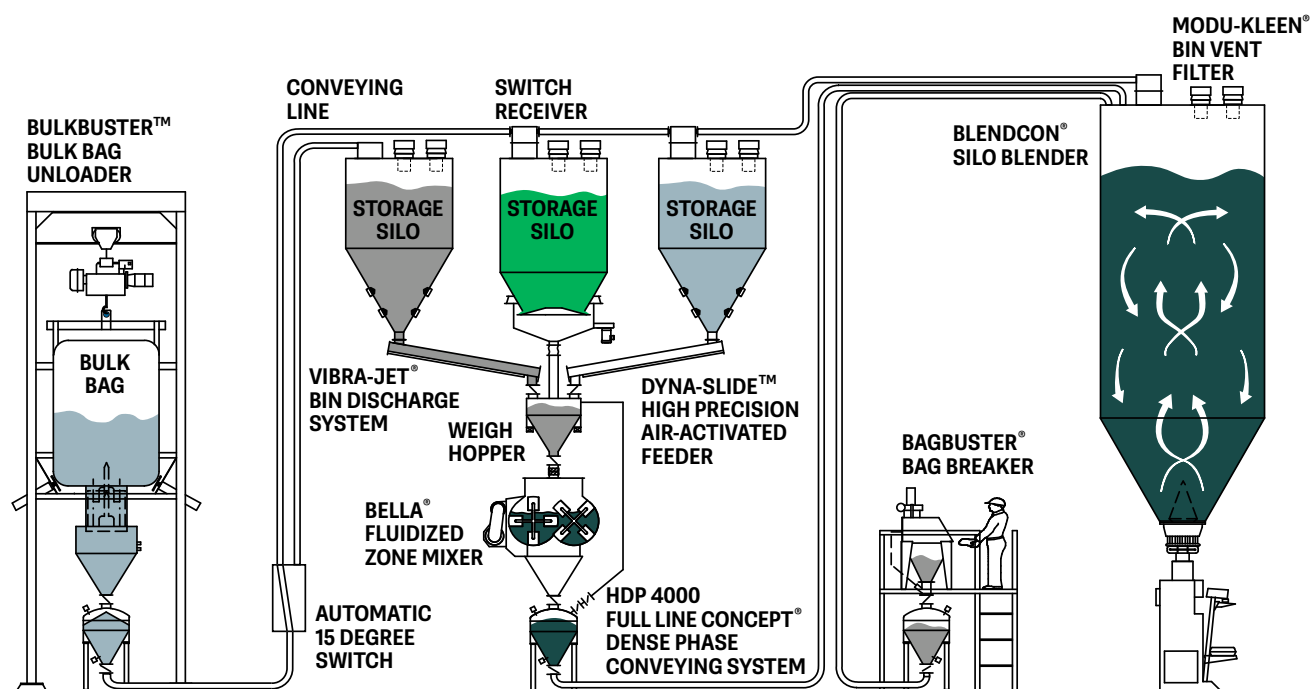
Plan now to join over 150 participants at the **2024 ITCO Members Meeting**, taking place in Houston on Tuesday 29 October. There will be a wide range of relevant industry presentations and discussions, together with an opportunity to meet and network with your industry contacts – old and new. On the day before, you can also play in the ITCO 2024 Golf Tournament and come to the "Welcome to Houston" Reception. Further information, including the Conference Agenda and Registration Form, on www.itco.org

Paul Gooch, President, ITCO

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SOLUTIONS *that Power Success*



Who We Are

Dynamic Air has over five decades of expertise in designing and manufacturing pneumatic conveying systems and equipment for handling dry bulk solids. We are a leading provider of custom solutions for the handling of bulk materials for processing businesses across various industries.

Our Approach

We never take a cookie-cutter approach just to cut costs up front; we know that the right solution will save you money in the many years to come. Our tailored solutions involve thoughtful planning, meticulous engineering and precise manufacturing that optimize efficiency and productivity.

Dynamic Difference

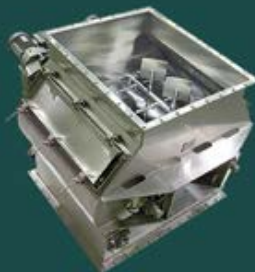
At Dynamic Air, we set the standard for excellence in bulk solids handling. With a relentless focus on quality, reliability, and customer satisfaction, we deliver reliable, high-quality pneumatic conveying systems, equipment, and custom solutions that exceed expectations.



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