MATERIAL HANDLERS FEATURE

Global News & Information on the Quarrying, Recycling & Bulk Materials Handling Industries

May/June 2025 | Issue 92

HUB 4

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"They are great machines to operate - powerful, smooth and comfortable."

George Nicholson, Operator, The Purvis Group

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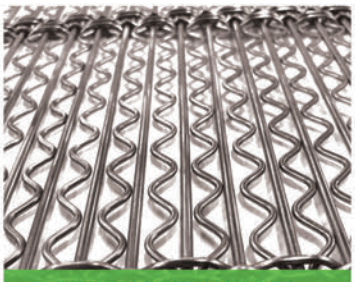

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Welcome to issue 92

Welcome to third edition of 2025 - issue 92.

In this third issue of our bi-monthly magazine the team at Hub-4 present you with another bumper edition reporting on the latest news from the Quarrying, Recycling & Bulk Handling Industries, including a spotlight on **Material Handlers in the Recycling Industry.**

This year the Hub-4 magazine with have extra circulation in the July/August issue for extra exhibition distribution at the RWM.

Onwards into 2025:

If you're starting to look at marketing in the second half of 2025 our new media file with feature list can be found here, either PDF download or page flip version: https://hub-4.com/pages/advertise-with-us

Electronic advertising is also available on the website and on the weekly e-newsletter which is distributed to our readers which is on-line here: https://hub-4.com/pages/newsletter

Our increasingly popular social media packages are also available across our X, Facebook & LinkedIn pages all of which can be linked with electronic web and e-newsletter advertising – why not enquire about our extremely competitive packages.

Finally, our third edition of 2025 will focus on **Mobile Equipment – Dumptrucks, Wheeled Loaders, Excavators** etc. Also, a review on **Concrete in the industry** and the **annual RWM Preview.**

I welcome any editorial contributions for this issue.

John Edwards
Editor

JULY | AUGUST 25

MOBILE QUARRY, RECYCLING & EARTHMOVING EQUIPMENT - wheeled loaders, excavators, dump trucks, skid steer loaders, mini excavators, attachments, quick hitch, buckets, tyres & chains, engines & transmissions, plant hirers.

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RWM SHOW PREVIEW

RECYCLING - Open topics for this issue

BULK HANDLING - Open topics for this issue

Editorial copy deadline – 17th July 2025 Advert copy deadline – 24th July 2025

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Published six times a year.

Problem? Let Liebherr handle it

Liebherr's answer to double trouble

When you're recycling more than 200,000 tonnes of timber a year it's crucial that your frontline machines are up to the job. The Purvis Group's telescopic handlers weren't: it was time to give Liebherr a call.

The Fife multi-faceted group had been running a pair of waste spec handlers at its biomass facility but it was becoming increasingly evident they just couldn't cope. Site manager Wayne Campbell takes up the story: 'Because both machines were extremely important to the business, they needed to be reliable. We could cope with one machine being out of service for a very short time but when it became a regular occurrence on both, we knew we needed to look elsewhere for a solution.'

The answer was found at Liebherr GB in the form of two T60-9S telescopic handlers which were acquired following a successful demonstration exercise and put into operation at Purvis's recycling park close to its headquarters in Lochgelly. There, virgin timber and material sourced from the company's recycling operations are processed into several grades to supply biomass to power stations. The machines' duties include handling the huge volumes of material being generated by the timber processing operations and loading up the continuous stream of walking floor trailers that take the material off site.

Liebherr's telehandler range encompasses models with lift capacities from 3.3 tonnes to 6 tonnes and with maximum lift heights to 10m. The most popular models in the UK are the heavy-duty, waste specification T 55-7S and T 60-9S, both armed with upgrades to equip them for work in the tough applications found in the waste industry.

Purvis initially had their eye on the smaller T 55-7S and took it on demo but, as managing director Craig Purvis explained, it was agreed that better load-over height of the larger machine would be more beneficial. He added: 'Liebherr organised a second demo, this time with the larger machine which has worked out perfectly and handles our 4m3 and 5m3 buckets with ease.'

'The large, general-purpose buckets mounted on hydraulic quick couplers has allowed the Liebherr's to cut the loading time for each truck to a minimum and with the increased height of the 9m boom, the machines can stay well away from the trucks on each pass.'

'They are great machines to operate – powerful, smooth and comfortable'

George Nicholson, operator

In the case of the T 60-9S, the Camso semi-solid, puncture-proof tyres provide solid grip when the concrete surface becomes wet and greasy. The machine rides on heavy-duty Spicer axles with a range of steering options and its 3.15m wheelbase offers rock-solid stability. The two-piece boom is mounted low in the chassis to give the operator a wider field of visibility.

Operator duties are split George Nicholson and Ross Black who have given the handlers the thumbs-up. Nicholson said: 'They are great machines to operate – powerful, smooth and very comfortable with unbelievable visibility. On the previous machines you were forever rocking backwards and forwards in the seat to see the bucket but it's so much more relaxing in these new machines thanks to the huge windscreens. There's plenty of power too. Even though we are only moving woodchip, it compresses and needs a bit of a shove to get it into the bucket. The Liebherr's do it easily.'

THE CUSTOMER

Founded in 1980 as a plant hire operation, the Purvis Group has expanded into a single-source business for the construction, recycling and haulage sector with interests in civil engineering, demolition, building supplies, screening and crushing, mechanical and electrical services and site accommodation. Founder and chairman Bob Purvis was awarded an OBE in the 2025 King's New Year's Honours for services and commitment to the community.

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The Future Is Electric with the new Finlay 883+ Electric Scalper

Finlay®, a global leader in mobile crushing, screening, and conveying equipment, is pleased to introduce the electric-powered 883+ heavy-duty scalping screen, an addition to its flagship 883+ model and a step forward in sustainable screening technology. Designed for a range of primary and secondary screening applications, this machine is an ideal choice for industries such as quarrying, mining, iron ore processing, construction and demolition waste, sand, gravel, compost, topsoil, and coal.

The Finlay 883+ Electric scalper has been developed to meet the growing demand for efficient, environmentally friendly equipment. With an intelligent and flexible power pack, this machine can be connected directly to the grid or powered by a genset, allowing for intuitive operation without compromising performance or application versatility. The electrical drive system powers the feeder, screenbox, and conveyors, making it an excellent solution for customers seeking to reduce their carbon footprint while maintaining high productivity.

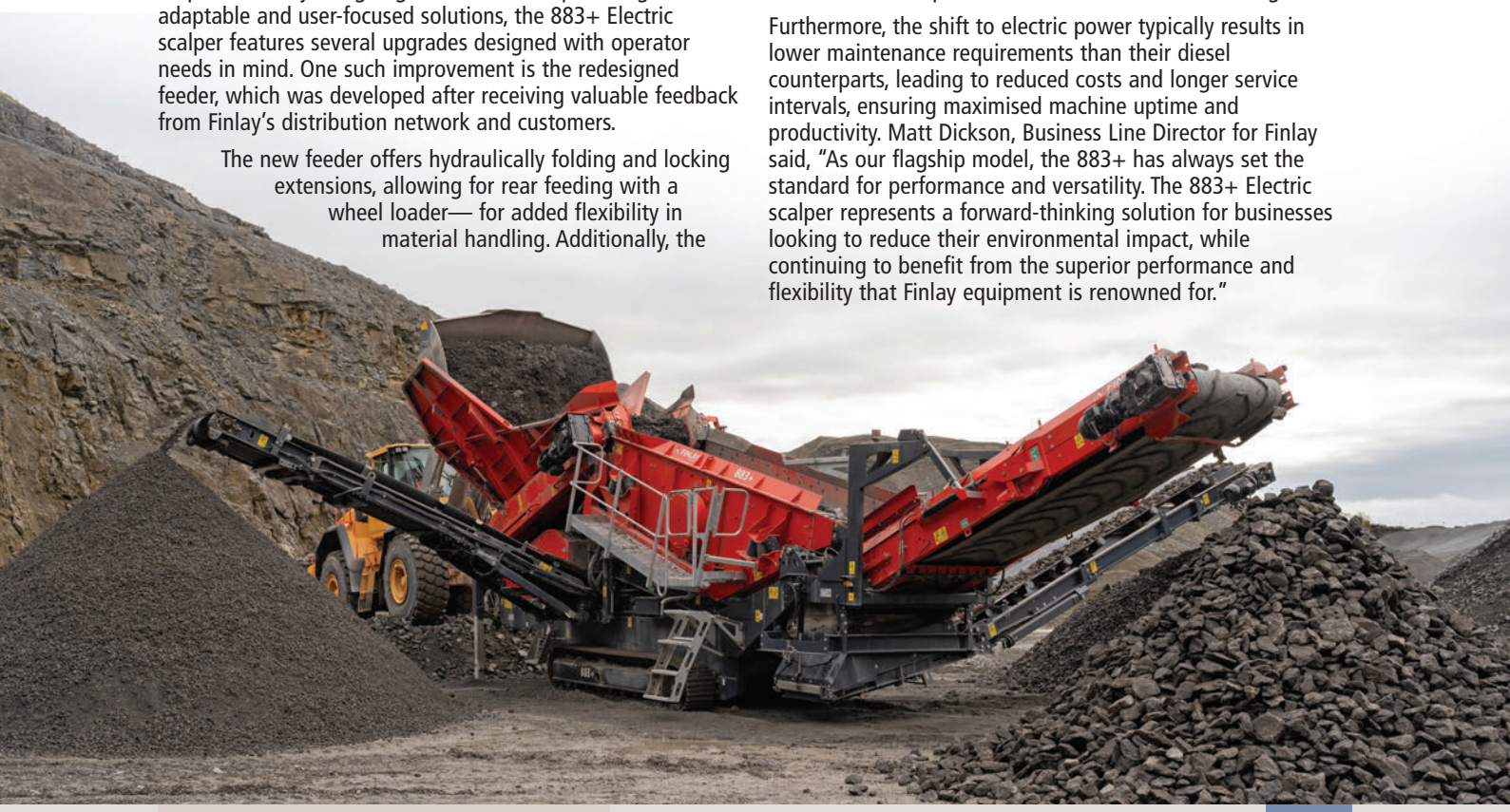
As part of Finlay's ongoing commitment to providing adaptable and user-focused solutions, the 883+ Electric scalper features several upgrades designed with operator needs in mind. One such improvement is the redesigned feeder, which was developed after receiving valuable feedback from Finlay's distribution network and customers.

The new feeder offers hydraulically folding and locking extensions, allowing for rear feeding with a wheel loader— for added flexibility in material handling. Additionally, the hopper is now manufactured from wear-resistant steel, with the option for hopper linings, providing enhanced durability in tough operating environments.

In response to evolving industry demands, the 883+ Electric scalper is also engineered with mobility in mind. The machine is equipped with an onboard engine that powers the tracks, allowing for easy relocation across job sites. This ensures that customers can continue to move and position their equipment with minimal effort, regardless of power source availability.

The electric variant of the 883+ scalper delivers several key benefits, including significant reductions in operating costs through grid electricity use, a smaller carbon footprint thanks to the elimination of CO2 emissions, and reduced engine noise - ideal for operations in urban and indoor settings.

Furthermore, the shift to electric power typically results in lower maintenance requirements than their diesel counterparts, leading to reduced costs and longer service intervals, ensuring maximised machine uptime and productivity. Matt Dickson, Business Line Director for Finlay said, "As our flagship model, the 883+ has always set the standard for performance and versatility. The 883+ Electric scalper represents a forward-thinking solution for businesses looking to reduce their environmental impact, while continuing to benefit from the superior performance and flexibility that Finlay equipment is renowned for."



Rep-Tec wins Manufacturing Innovation Award at the 'Made in NI' awards

REP-TEC is proud to announce that it has won the Manufacturing Innovation Award at the Insider Media Made in NI Awards, held on Friday evening in Belfast. This marks back-to-back wins for the company, having also taken home the award for Manufacturing Start Up of the Year at last year's event.

The award recognises REP-TEC's pioneering ECO-DRIVE® technology and the company's commitment to building smarter, more energy-efficient machines for the recycling and waste management industries. ECO-DRIVE® is an energy-saving solution and when it is integrated with REP-TEC's twin ram baler control system, typically delivers up to a 30% saving on power usage compared to traditional systems. By enabling precise control over motor speed, ECO-DRIVE® significantly optimises energy usage throughout the baling process—enhancing operational efficiency, lowering running costs, and reducing environmental impact.

What began as a mission to create better, more sustainable solutions has become the driving force behind everything REP-TEC does. This award marks a major milestone in the company's journey and highlights the innovation and dedication of the entire team.

"We're absolutely thrilled to receive this award," said Colm Grimes, Managing Director of REP-TEC. "It's a significant moment for everyone who has contributed to our progress and growth. ECO-DRIVE® is more than just a technology – it represents a shift in how we approach machine design, sustainability, and the future of manufacturing."

Following this award, REP-TEC are now preparing to represent Northern Ireland in the Made in the UK finals this June in Liverpool.

Colm continues, "A huge thanks to everyone involved in making this achievement possible. We're honoured to be flying the flag for NI and excited to showcase what we've built on the national stage next month."

For more information about REP-TEC and ECO-DRIVE®, visit: www.rep-tec.co.uk

New Waste and Recycling Kit for Develon DL-7 Wheel Loaders

Develon has introduced a new updated Waste and Recycling Kit for the company's award-winning DL-7 range of wheel loaders. It is designed to help operators work safely in the hazardous conditions that often accompany waste handling and recycling applications, including contending with airborne dust, dirt and other dangerous particulates and materials. The kit is available for all Develon wheel loader models from the DL200-7 through to the DL480-7, which is the segment of the Develon range that is most widely used in this kind of environment.

The main features of the Waste and Recycling kit include:

- Windshield guards
- Rim covers
- Road light protection (Front + Rear)
- Arm cylinder cover
- Articulation guard
- Front frame cover
- Belly protection (Front + Centre + Rear)
- Air intake mesh

There are many safety features provided in the kit, including the windshield guards, rim covers, road light protection and other protective covers, a fine mesh air intake cover and solid tyres. Several of these features are available as options, so customers can choose a kit of their choice to tailor their wheel loaders for their specific applications. Develon also offers an aftermarket version of the kit for those customers who decide to install the kit at a later date.

With the Waste and Recycling kit, operators will be able to work more safely and confidently on these job sites and, in addition, Develon provides a wider fin radiator and air conditioner condenser as standard, in combination with a reversible fan, to facilitate easy cleaning and maintenance.

The Waste and Recycling kit perfectly matches with other features of the DL-7 range, such as the air compressor, high lift arm, quick coupler, Transparent bucket and more. For maximum performance and versatility all DL-7 wheel loaders are equipped as standard with a 3rd spool valve with settable flow and detent function, providing a constant flow for hydraulically driven attachments.

Sandvik launch the electrifying QH443E tracked cone crusher

Sandvik Mobile Crushing and Screening is proud to announce the launch of the QH443E, our latest innovation in tracked cone crushers. This new electric unit has been designed with a focus on sustainability and productivity and is set to revolutionize operations in heavy duty applications.

The new QH443E is Sandvik's flagship Q-Range electric-driven cone plant. It takes a significant step towards bridging the gap between tracked mobile, wheeled portable, and stationary plants by combining electric drives and track mobility on a single platform.

The QH443E electric cone crusher completes Sandvik's revolutionary electric train, which includes the UJ443E fully electric jaw crusher (launched in 2023), the QE342e hybrid scalper and the QA452e hybrid triple-deck Doublescreen (both launched in 2022).

QH443E cone crusher

Sustainability at its core

The QH443E features a new and improved heavy duty feeder design and is equipped with electrically driven components. Its advanced design allows for operation through a connection to an external electrical grid supply or on-board generator, providing flexibility and reducing operational costs.

The integration of the latest generation of fuel-efficient engines further enhances flexibility, allowing the unit to be operated via HVO (Hydrotreated Vegetable Oil) or diesel when required, maximizing uptime whilst lowering emissions and operating noise.

Due to the electrification of the onboard components, running the QH443E via the genset can result in up to 25%* fuel savings and a 78%* reduction in hydraulic oil usage compared to previous generations.

Unmatched productivity

The QH443E is designed to maximize uptime and boost output. With the renowned versatility and reliability of the Sandvik CH440 Hydrocone, Constant Liner Performance (CLP), and Hydroset CSS adjustment, this crusher delivers superior power transfer and precision crushing. The new Optik™ intuitive automation system and My Fleet remote monitoring provide 24/7 fleet management, geo-fencing, and remote operator support, ensure continuous crushing and optimal performance.

One platform, endless possibilities

Engineered to operate in the most hostile environments, the QH443E is ideal for large quarries and mines. Its robust design, featuring a unibody mainframe and premium components, ensures durability and strength. The load-sensing system for the feeder drive, camera, and level sensor guarantees continuous crushing, while the choice of chambers, throws, and settings allows for customization to suit a wide range of applications.

Safety and Support

Safety is paramount in the design of the QH443E. The unit includes remote camera viewing of the crushing chamber, 270° access around the crusher for easy maintenance, and mandatory audible and visual warnings for safe operation. Our extensive global distributor and sales support network ensures that you receive the best support for your operations.

The Sandvik QH443E represents a significant step forward in the evolution of tracked cone crushers. With its focus on electrification, sustainability, and productivity, it is the perfect solution for large quarries and mines looking to enhance their operations. Experience the future of crushing with the Sandvik QH443E.

The QH443E is available to order in the European market now through Sandvik Mobile's sales network and will be available globally later in 2025.

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New Kiverco-McKinstry Deal sets benchmark for Northern Ireland's Recycling Future

A major new contract has been announced between two Northern Ireland-based companies operating within the waste management sector, marking a new era that will set the standard for the future of Construction, Demolition and Industrial waste recycling in the UK and Ireland.

McKinstry Group, a waste management company based in Co Antrim has awarded Co Tyrone-based company Kiverco Ltd a contract to design, manufacture and install a new recycling plant at their main facility in Co Antrim. This is the largest and most advanced facility of its kind in the UK and Ireland and is a transformational change for the waste management sector in the region.

This announcement marks a significant new era for the McKinstry Group, which has grown from a small family business to being one of the largest waste processing operations in Northern Ireland. The project, valued at around £16 million, will include substantial investments in groundworks and the construction of a new building to house the recycling plant.

For McKinstry Group, key to the success of the project was finding a trusted partner to help design and develop a cutting-edge, future-proof facility to align with the company's aspirations. Having carried out extensive research across the UK and Ireland, they found the perfect partner right on their doorstep, in Northern Ireland. Kiverco is a leading recycling solutions provider, based in Dungannon, and is renowned worldwide for manufacturing the world's toughest recycling plant. With over 400 plant installations globally, Kiverco is the leading provider of Construction, Demolition and & Industrial (C,D&I) recycling solutions in the UK, and has recently rapidly progressed its expansion into export markets such as the Middle East and Australia. In 2023, Kiverco expanded its manufacturing facility to 40,000 sq ft, doubling production capacity and enabling the company to meet ambitious growth plans.

Both companies are family-owned businesses, with a culture of innovation and sustainability at their core. Having already worked together on previous projects over a 10 year period, McKinstry and Kiverco embarked on a 2-year collaboration on this project with a goal to ensure their new C,D&I facility was the best of its kind. This involved extensive research into new technological advancements in the industry, site visits across Europe to identify best-practice facilities, materials testing, and numerous design lay-outs. The result is a futureproof state-of-the-art recycling plant, which will undoubtedly become the flagship facility of its kind in the UK and Ireland.

Speaking about the new project, Darren McKinstry, Managing Director of McKinstry Group, said 'We have been working on this project for several years now and are confident that we have found the right partner to deliver a class-leading materials recycling plant fit for the future. Kiverco's reputation within the recycling industry is unsurpassed, they are industry-renowned for manufacturing robust plant that is tough and built to last. Throughout our time working together on this project, Kiverco's determination to ensure our new recycling

plant is as technologically advanced as possible, as well as meeting the key objectives of our business, has been impressive.

Bank Of Ireland has shown great dedication to this project, and with their support we have been able to commit to a £16 million investment, which will provide capacity for major growth alongside making a positive environmental impact on the region's waste management sector.'

According to Kiverco Sales Manager, JP Devlin, who has been committed to the project since initial discussions began nearly 5 years ago. 'McKinstry and Kiverco share the same values – we take pride in our work, and honesty and respect at are the core of everything we do. Kiverco wholeheartedly embraced this project, we considered every aspect of the plant design to ensure it was the best, most technologically advanced plant of its kind. Many of the technologies integrated into this plant design have never been used before in the UK and Ireland. In addition we incorporated some of the digital technologies we have been advancing within our business, such as remote plant performance management and automated maintenance alerts – it really is the first of its kind.'

Kiverco's Managing Director John Irwin said 'We can't overstate the importance of this new facility on our doorstep here in Northern Ireland. Kiverco has a strong reputation in the industry for installing large bespoke static plants in UK, Ireland and in international markets, and to secure this contract for such an impressive facility here in County Antrim is transformational for the waste management sector. Not only will this become a flagship plant for Kiverco, but the investment will ensure continued environmental progress within the sustainability sector for both McKinstry Group and Kiverco – something which is incredibly important to both businesses. We are hugely proud of the partnership we have developed, and the key role we play in cleaning up the world's waste, reducing environmental impact, and contributing to a cleaner, circular economy.

The preparation works are already underway for the new plant, with groundworks and the construction of the new shed already taking place. Installation of the plant will commence in September this year with final commission planned for December 2025.

Superior acquires patent for Recirculating Conveyor on Sentry® HSI Plant

Centralized feed design maximizes blow bar life, reduces cost per ton for producers.

Superior Industries, Inc., a US-based manufacturer and global supplier of bulk material processing and handling systems, has been awarded patent protection for a key feature on its Portable Sentry Horizontal Shaft Impactor (HSI) Closed Circuit Plant

The newly patented recirculating conveyor delivers returning material back to the HSI with a centered, uniform feed. This centralized approach ensures full utilization of the crusher's blow bars, significantly improving wear life and reducing cost per ton in recycled concrete, reclaimed asphalt, and other crushing and screening applications.

"Uneven wear is one of the hidden killers of cost efficiency," says Devon McKinney, Superior's product manager for portable plants. "With this design, our engineers found a way to take care of the crusher and a producer's bottom line at the same time."

By contrast, other HSI closed-circuit plants commonly introduce recirculated material from one side of the crusher, causing blow bars to wear unevenly and increasing replacement frequency.

In addition to the hydraulically-positioned recirculating conveyor, the Portable Sentry HSI Plant also includes these features:

- Intrepid® Vibrating Grizzly Feeder equipped with interchangeable grizzly cassettes (bars, fingers or punch plates) to accommodate multiple applications.

- 2-deck Anthem® Inclined Screen for sorting up to three sizes of material and includes extra clearance between decks, which eases human access for maintenance.
- Universally designed cross conveyors are fully interchangeable, allowing producers to rotate them as needed and minimize inventory requirements.

The new recirculating conveyor patent reinforces Superior's commitment to practical innovation focused on uptime, safety, and long-term cost savings.

Kelston Sparks select RM 120X NEXT from Rubble Master

Kelston Sparks, the Bristol based specialists in earthmoving and quarrying have selected the Rubble Master RM 120X NEXT as their new impact crusher after an extensive period of research and testing. Purchased from distributor Red Knight 6 Ltd, the RM 120X NEXT out- performed a variety of competitor machines in direct 'head-to-head' tests to be selected as the new machine for the business.

Commenting on the deal, Red Knight 6 Managing Director Paul Donnelly said: "There are times that you are asked to prove why you have the best product by performance and not words or numbers on paper, this was one of them . After head-to-head tests against competitors, we were able to show that the Rubble Master machines could even outperform larger, competitor machines . It's great to be challenged in this way by a reputable company like Kelston Sparkes and reinforce, even to ourselves, that we have a world leader in the Rubble Master impactor range."

Pictured: Kelston Stark, Director (left) and Paul Donnelly, Managing Director, Red Knight 6 Ltd (right)

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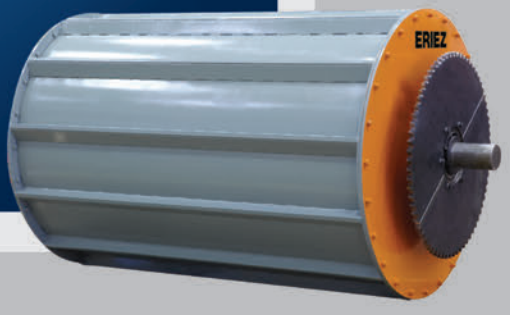

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We chose the M&J P250e shredder simply because it is electric and can halve our energy consumption

To optimize their recycling operations and reduce landfill volumes, environmental services company Terra invested in an M&J P250e electric pre-shredder.

This enabled them to process more C&I waste, extract more materials for recycling, cut power use by 50% and initiate RDF production - boosting efficiency and sustainability.With up to 40.000 tonnes of industrial and commercial waste coming in every year, Icelandic environmental services company Terra needs to run a smooth and effective operation.

Terra is dedicated to recovering and reusing as many of the incoming materials as possible. So, after the company receives its waste from thousands of companies across Iceland, it is sorted thoroughly.

Every year, about 15.000 tonnes of recyclable materials are extracted, packaged, and shipped to customers, leaving up to 25.000 tonnes of residual materials behind.

As Terra's ambition is to leave nothing behind, Terra decided to explore the possibilities of extracting even more materials for recycling through even more rigorous sorting, so the leftover materials did not end up in a landfill.

They found, however, that the business case was not strong enough. The cost of extracting more material would be far higher than the income they could get from the materials.

So, the Business Development team at Terra decided to change course. Instead, they chose to produce refuse-derived fuel, which can substitute coal and oil in incineration plants to produce electricity or hot water for domestic heat.

To begin production, they needed an industrial waste pre-shredder that could reduce the size of the remaining 20.000—25.000 tonnes of waste and one that could do so with a uniform grain size output.

Electric drive significantly reduces operational costs

Arngrímur Sverrisson, responsible for Business Development at Terra, started to research shredder options. He already has first-hand experience with the M&J Recycling brand, and after meeting M&J Recycling's Area Sales Manager for Iceland and hearing about the then newly launched electric pre-shredder, the M&J P250e, Arngrímur soon stopped considering other shredder brands.

"We chose the P250e simply because it is electric. It was the only electric pre-shredder for our waste type on the market, and with it, I can save up to half of my energy consumption compared to using a hydraulic shredder. That is a significant improvement of our business", Arngrímur explains.

Whereas others might have felt more at ease buying a hydraulic shredder, as the technology has been used for so many years, Arngrímur had no concerns being a brand-new type of pre-shredder:

"With a Technology Management and Marine Engineering background, I have been used to electrical engines on ships since '89, so buying a shredder with an electric drive did not worry me at all."

Site visit with live action made the difference

However, being able to get an electric shredder was not the only deciding factor for Arngrímur. For him, M&J also stood out from other European brands because it's Danish and because Arngrímur was able to see the P250e shredder in action in Denmark before investing in it:

"It was essential for me that I was able to see the pre-shredder first. You can buy shredders from many places, but having the opportunity to see it in action made the difference to me. It enabled me to see how the shredder performs as well as hear another customer's experience with it", Arngrímur states and continues:

"Personally, it also mattered to me that M&J Recycling is a Danish brand. I got my degree in Denmark and can speak the language, so communication with the M&J team went smoothly."

Effective production with maximum output

The powerful pre-shredder was commissioned in November 2023 and now plays an instrumental part in Terra's new waste treatment line that covers sorting, size reduction, and baling.

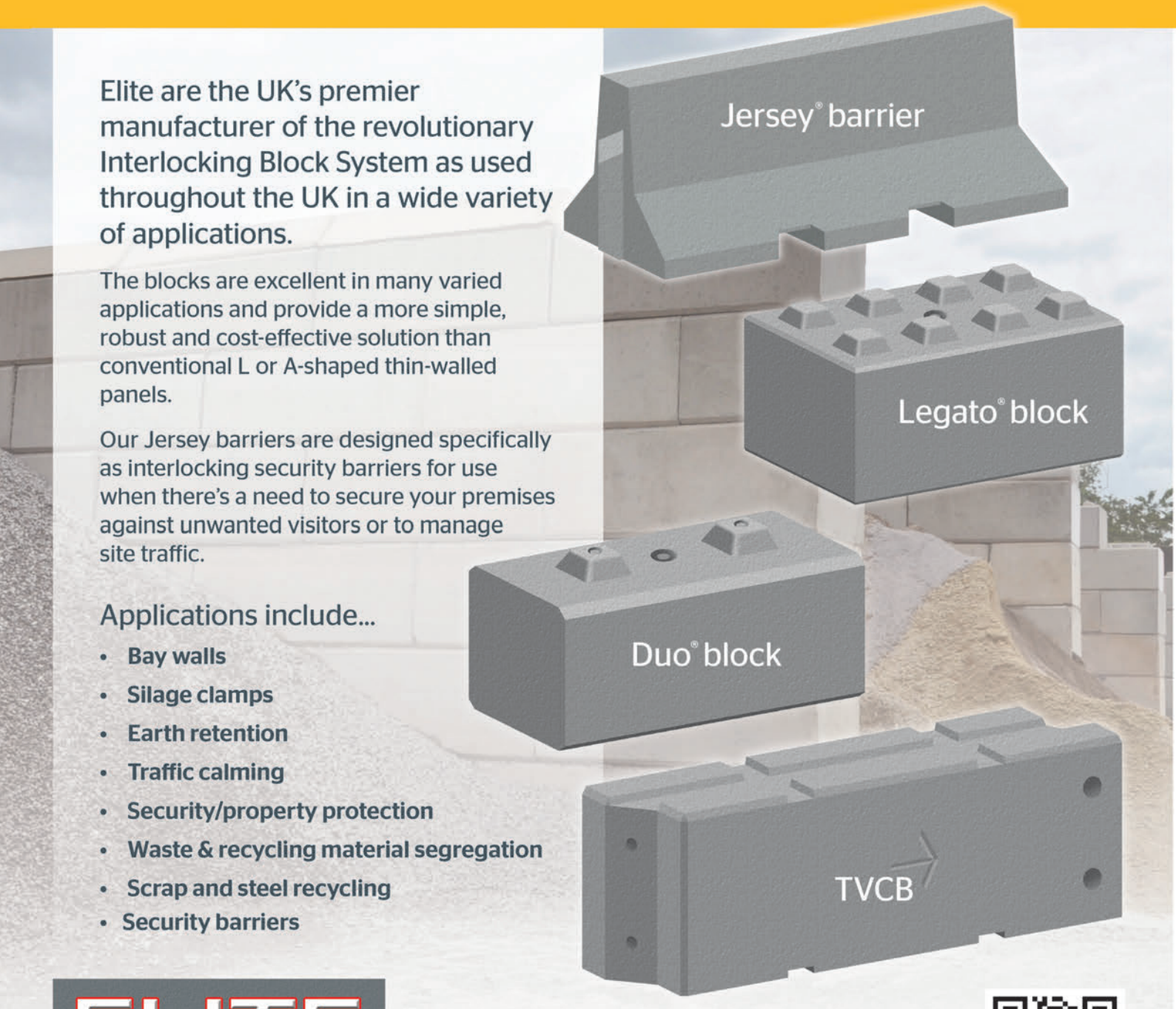
A simple process that enables Terra to produce high-quality RDF in a limited space and easily ship it off to its customers in Sweden.

"I am very pleased with the P250e. It's a very good shredder, and it does the job as expected", says Arngrímur and finishes:

"To produce RDF of the required quality, we need to mix different waste types, and we are now learning how to do that in the best way and how to load the shredder to exploit the shredder's high capacity fully. The better we are at mixing the waste and loading the hopper, the better the flow of materials".

With the new RDF production line in operation, Terra is as close to their ambition of leaving nothing behind as possible. Approximately 95 % of the incoming waste in the Reykjavik area is recycled or used in waste-to-energy, leaving only a small amount of non-recyclable, non-shreddable materials behind.

Elite Precast Concrete make bay-building easy



Elite are the UK's premier manufacturer of the revolutionary Interlocking Block System as used throughout the UK in a wide variety of applications.

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STADLER Digital Solutions: towards a new era of smart, data-driven sorting plants

STADLER Anlagenbau GmbH is transforming recycling plant efficiency with its digital solutions specifically developed for sorting plants. At the heart of this transformation is STADLERconnect, a comprehensive cloud-based platform that offers recycling and sorting plants a single access point for its digital products, designed to optimise operations by unlocking the full potential of machine and material data to drive impactful operational improvements.

"STADLERconnect is designed to deliver added value to recycling plants of all types and sizes, improving performance through data-driven insights, enhanced machine uptime, and streamlined maintenance and reporting processes," says Dr. Benjamin Eule, Director at STADLER UK & Head of Commissioning. "Its digital tools boost efficiency, reduce downtime, support remote diagnostics, and drive smarter decision-making for continuous improvement, with changes to operating conditions being identified swiftly."

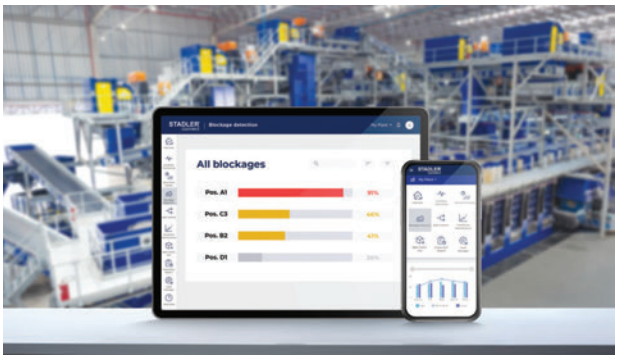
"Through STADLERconnect we provide a unified platform that integrates data from multiple plants and sources, offering the plant management a centralised, remote overview of all facilities," explains Julia Stadler, Chief Digital Officer. "Our insights help improve key performance indicators, from identifying and addressing frequent downtime causes to preventing blockages that lead to plant stoppages."

Smarter Maintenance with Real-Time Insights

Unplanned downtime is a major cost driver in sorting plants. STADLERconnect integrates real-time sensor data with existing systems to provide a complete overview of plant operations. AI-driven analytics transform complex data into actionable insights that enable predictive maintenance, reducing unexpected failures.

Automation & Material Analysis for Efficiency

STADLERconnect also enhances automation and material analysis through advanced sensors and cameras. These tools collect critical data to optimize sorting, improve resource utilization, and reduce waste. By automating various parts of the plant, STADLERconnect improves operational performance and reduces operators' workloads, while its material analysis tools increase transparency on quantity and quality. They enable precise tracking of material flows, identify inefficiencies, and allow for process adjustments that reduce waste and energy usage. The result is consistent product quality, a reduction in costly manual quality checks, increased efficiency, lower costs, and higher process quality.



Driving Customer Value and Efficiency

In developing its digital solutions, STADLER has pursued a twofold objective: delivering added value by using key data insights to enhance plant operations, and applying these insights to improve plant design and after-sales service. "Our digital solutions are purpose-built for sorting plants, directly addressing the needs of plant operators," says Julia Stadler. "Leveraging our extensive OEM expertise, we ensure greater accuracy in areas such as determining conveyor equipment status. Our team combines software development and engineering expertise. This approach goes beyond simple data collection and visualisation: our solutions leverage new and existing data points to drive meaningful operational improvements."

Continuous Innovation for a Smart Sorting Revolution

STADLERconnect is designed to adapt to recyclers' evolving needs. All modules receive regular updates and feature security enhancements at no additional cost to customers.

The patented STADLERconnect modules have been successfully implemented in several plants and will be rolled out across STADLER turnkey recycling plants worldwide. Upcoming modules, such as Windshifter Automation and Infeed Decision Aid, will expand capabilities even further. Our aim is to support the integration of data not only from our own equipment but also from all the equipment in our plants, paving the way for a truly smart sorting plant," concludes Julia Stadler.

Recycling construction and demolition materials with the modern solution

Although highly suited to primary aggregate production in quarries and sand and gravel plants, Screencore's mobile and modern range of mobile solutions has found a real niche in processing materials arising from construction operations. Possessing exceptional productivity but at the same time being fuel efficient, the crushers, screens and stockpilers are now at work throughout the world processing a variety of materials, turning what was once considered to be waste into a valuable resource.

Companies working in the demolition and recycling industries have been quick to see how Screencore material processing and handling equipment can aid their business operations. Playing a major part in the success of Screencore has been the company's extensive international distributor network. The relationship forged has led directly to a number of compact Screencore tracked jaw crushers, Trident scalper-screens, Orbiter trommels and radial stockpilers being used to recycle construction and demolition materials. To this can now be added a bespoke selection of stationary recycling plants. All of these solutions are designed to benefit users, heling them to turn waste into high quality aggregates and other valuable products.

The adoption of Screencore equipment by distributors in such countries as the US, France, the UK, Australia and South Africa (often alongside existing product portfolios) directly points to the versatility and processing efficiency of the Screencore range. "The Screencore product range was developed in order to meet the needs of the modern contractor and materials handling operation. We have set out to build to the highest standards equipment that helps people in the field be more profitable, efficient and effective in what they do. We have also incorporated environmental efficiency into every step of our processes to minimise customers' carbon footprint. All this has meant that working with our distributors has seen Screencore equipment adopted on numerous projects, turning construction waste into reusable and/or resaleable products," explains Screencore director, Ciarán Ryan.

Modern and affordable crushing and screening

A typical application – in this case in the US - sees, in the first instance, a Screencore XJ Dual-Power Crusher being fed the demolished or excavated material, usually by an excavator or loading shovel. The Screencore XJ itself is a dual-power 1000mm x 650mm (40" x 27") jaw crusher designed with a compact footprint. It has proved to be ideally suited to the modern demands of a recycling contractor, rental fleet or inner-city demolition/recycling site. It weighs in at just 30,000kg (65,000lbs) which means that it can be easily relocated without the need for permits. It is designed to be both environmentally and acoustically friendly while delivering impressive throughput even on hard rock applications or concrete with rebar.

Following crushing to -100mm (4"), the material is then fed into a 17,000kg (37,500lb) Trident 124 scalper/screener to produce 0/25mm,25/60mm and +60mm (1", 2.36" and +2.36") products. In addition, any ferrous metals such as rebar or wire, are easily removed for resale/recycling by the overband magnet on the XJ crusher's discharge conveyor before being fed into the screen. In many applications the 0/25mm material is generally used for pipe bedding; 25-60mm directly as road subbase or as feed material for secondary crushing for concrete production, whilst the +60mm is used as drainage stone. The combined set-up time for this crushing and screening combination is less than 30 minutes.

Getting to the material

Due to the easily transportable and modern nature of the equipment, contractors and rental fleets have found that the Screencore crusher and screen combination can be readily transported to where the material is. This means that the material can be processed where it originated, and generally where it is needed, resulting in no unnecessary emissions, material handling or transport costs. In addition, the local environment is not subject to unnecessary traffic disturbances and the overall carbon footprint of the contract is dramatically reduced. "Quick set up times, easily adjusted closed side settings, fuel efficiency (dual-power) and ease of transport are just some of the reasons that has seen contractors and recyclers adopt Screencore equipment," explains Ciarán Ryan.

For some operations however, mobility is not essential. This has led Screencore to use its expertise to develop a range of bespoke stationary solutions based around its Orbiter trommel range working alongside Screencore stockpilers and scalpers. "Screencore provides a variety of customized stationary solutions tailored to suit individual applications. Our dedicated in-house design team collaborates with our distributors and their customers to develop an efficient and long-lasting material handling system. Leveraging our electrical power expertise, we ensure that any system satisfies requirements.

"Screencore will custom-design conveyors, stockpilers and feeders to meet any application requirements. Our designs are renowned for their quality and ease of assembly, arriving in neatly packed containers and specified to over-deliver on throughput expectations. We also supply a range of air separation systems for use in both stationary and mobile plant. Engineered for plastic or 'lights' contamination removal from C&D, compost and mulch, the Revac and AirKnife units are available in diesel or electric power to suit customer requirements," explains Ciarán Ryan.

Low cost and low emissions

Screencore's stationary and mobile equipment come with power solutions to suit various customer requirements. Stationary, and increasingly mobile plants, are electrically powered which makes efficient and cost effective use of main electricity to provide a low cost and low emission solution. "Screencore has gained a great deal of experience in using electric power from a variety of sources. Mains electricity has proved to be an ideal power source delivering a cost effective and environmentally efficient solution. Through the use of this power source, or the dual-power solution, precision processing of materials is accomplished without producing the emissions that would be of concern, and at the same time, at a low cost," concludes Screencore director Ciarán Ryan.

STADLERconnect - Digital Solutions to Enhance Plant Performance

Powered by real-time data and AI, **STADLERconnect** focuses on providing tailored solutions to boost operational efficiency.

With STADLERconnect, experience:

- Reduced downtime
- Enhanced efficiency and process quality
- Lower operational and maintenance costs
- Superior overall plant performance

STADLERconnect: Efficient Plant Control and Real-Time Data Analysis

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STADLER®
Engineering at its best

Raising the Bar in Ferrous Recovery: The Power of Advanced Magnetic Drum Separation

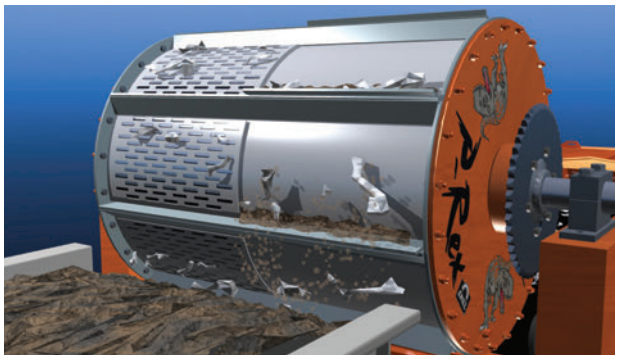
In the recycling and materials processing industries, the efficient removal of ferrous metals is crucial for maintaining product quality, promoting resource recovery, and ensuring profitability. Magnetic drum separators have long been a workhorse in this field, and with today's advanced designs, their capabilities have never been greater.

One standout example is the Eriez Magnetic Drum Separator, engineered for durability, high-strength separation, and low-maintenance operation. Backed by over 80 years of separation expertise, Eriez drum separators help operations worldwide boost recovery rates and reduce operating costs.

Built to Withstand, Designed to Perform

Eriez Scrap Drums feature a rugged manganese steel shell, making them an ideal choice for harsh, abrasive environments. The drums' enclosed construction eliminates jamming risks and allows for both indoor and outdoor installation. With just two bearings and minimal lubrication requirements, these drums are virtually maintenance-free.

Installation is streamlined thanks to shaft clamp mounting blocks, which allow the separator to be suspended or supported to fit a wide range of plant layouts.



A Breakthrough in Magnetic Technology: The P-Rex® Drum Magnet

The real innovation lies inside the drum. The P-Rex® (Permanent Rare Earth Xtreme®) Drum Magnet sets a new benchmark in ferrous separation:

- Stronger Pickup Power: Offers up to 40% more magnetic strength than traditional electromagnetic drums, especially effective at recovering dense, spherical items from shredded scrap.
- Consistent Performance: Unlike electromagnets, P-Rex maintains its strength without heat buildup, ensuring its magnetic profile remains stable over time and providing reliable, high-yield operation.
- Wider Coverage: P-Rex's edge-to-edge magnetic field ensures greater surface pickup and more efficient separation.

For added performance, the optional Traction Plate Drum Wrap agitates the material on the drum surface, releasing non-metallic contaminants such as fluff and improving product purity.

Permanent vs. Electromagnetic Drums: What Sets Them Apart?

Eriez permanent drum separators offer several clear advantages over traditional electromagnetic designs:

- **Higher Magnetic Strength** that doesn't degrade
- **Consistent operation,** unaffected by temperature
- **Zero energy consumption** - no power supply needed
- **Lower maintenance requirements**

The result? Better recovery, lower running costs, and dependable long-term performance.

Flexible Configurations to Suit Any Plant

Eriez offers a variety of magnetic drum configurations to match specific materials and flow requirements:

- **Double Drum Systems** for maximum metal recovery and cleaning
- **Suspended Drums** placed at conveyor discharge points
- **Top Feed Units,** ideal for large, liberated ferrous items
- **Side Feed Styles** used in foundries to extract iron from shakeout sand

With multiple field orientations available, such as agitating for cleaner recovery or radial for high-volume applications, users can fine-tune their setup for optimal results.

Custom Options to Meet Your Needs

Eriez also supplies a wide range of enhancements, including:

- Wear-resistant shell wraps for abrasive materials
- Drive systems and zero-speed switches
- Heavy-duty frames and mounting accessories
- AC-to-DC rectifiers for electromagnetic models

Each system is custom-built to meet your specific requirements, ensuring a perfect fit for your process.

Built-In Safety and Easy Maintenance

Routine checks and simple lubrication are all that's needed to keep the system running at peak performance. Eriez recommends installing appropriate safety guards to protect personnel, in line with industry best practices.

A Proven Investment in Efficiency

Whether processing shredded vehicles, municipal waste, foundry sand, or incinerator ash, Eriez P-Rex technology delivers robust and consistent ferrous recovery with minimal intervention.

For operations seeking to increase throughput, enhance product purity, and minimize maintenance headaches, upgrading to an Eriez magnetic drum separator is a prudent move that yields long-term benefits.

Anniversary: Liebherr produces its 10,000th XPower wheel loader

- **A great success story: The 10,000th XPower wheel loader rolls off the production line in Bischofshofen**
- **The power-split XPower travel drive combines the advantages of both hydrostatic and mechanical drives**
- **Long-standing partnership with transmission manufacturer ZF Friedrichshafen AG as one of the factors for success**
- **Anniversary wheel loader L 580 XPower goes to the BERGER Group in Passau**

The Liebherr plant in Bischofshofen is celebrating a major milestone in its history with the production of its 10,000th XPower wheel loader. At the heart of the machine, standard on all Xpower models, is a power-split travel drive produced by Liebherr's trusted partner ZF Friedrichshafen AG. The 10,000th XPower wheel loader is therefore not only a cause for celebration for Liebherr, but also for ZF. The anniversary wheel loader will be put into service at the BERGER Group, which is also based in Passau.

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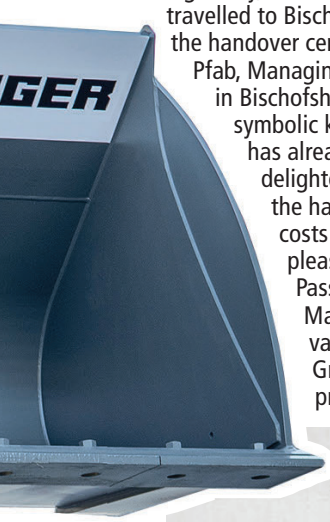
The long-standing partnership between Liebherr-Werk Bischofshofen GmbH and ZF Friedrichshafen AG has reached an impressive milestone: The 10,000th XPower wheel loader with power-split transmission from ZF rolled off the production line, an impressive testament to the successful collaboration between the two companies. To mark this happy anniversary, representatives from ZF's Passau site travelled to Bischofshofen to celebrate the long-standing and successful partnership. Representatives of the BERGER Group, who took delivery of their machine in person, and representatives of the Beutlhauser Group, who sold the XPower wheel loader to the customer, were also present at the anniversary event.

Liebherr-Werk Bischofshofen GmbH is a long-standing development partner of driveline specialist ZF. Drawing on its decades of experience in developing wheel loaders, Liebherr actively contributed to the development of the power-split transmission so that the manufacturer could optimise it for the requirements of the XPower travel drive. "The transmission from our partner ZF is a key component of the drivetrain in our XPower wheel loaders. With an impressive total of around 64,000,000 operating hours already clocked up by XPower models, this transmission has proven its exceptional robustness," explains Gerhard Pirnbacher, Head of Quality Management at the Liebherr plant in Bischofshofen. Daniel Härter, Senior Vice President of Industrial Technology at ZF's Passau site, adds: "We would like to congratulate Liebherr on its 10,000th XPower wheel loader and are delighted that our transmission is playing a part in the XPower success story."

From Bischofshofen back to Passau

The anniversary wheel loader – with special decals and a hand-signed transmission by ZF employees – is going to the BERGER Group in Passau, where it will be put into service near the ZF transmission plant in a BERGER Rohstoffe GmbH quarry in the Bavarian Forest. Matthias Neidhardt, Managing Director of BERGER Rohstoffe GmbH, Johannes Urmann, Authorized Signatory, and Michael Gruber, Technical Division Manager, travelled to Bischofshofen to receive their new wheel loader at the handover ceremony. During the ceremony, Dr. Herbert Pfab, Managing Director of Technology at the Liebherr plant in Bischofshofen, presented the new owners with a symbolic key for the new XPower. The BERGER Group has already got 20 XPowers in operation and is delighted with the anniversary machine. "We value the handling, reliability and relatively low operating costs of our XPower machines. We are particularly pleased that a gearbox from our home region of Passau is installed in our new wheel loader," says Matthias Neidhardt. The BERGER Group also values its trusted partnership with Beutlhauser Group in Passau and the outstanding services it provides.



Maximum efficiency for every operation

For around a decade, the XPower wheel loaders L 550 to L 586 have established themselves as pioneers when it comes to fuel efficiency and robustness. Its power-split drive system combines both hydrostatic and mechanical drives. The hydrostatic travel drive is the most efficient drive type for short loading operations, while the mechanical drive is the most powerful and economical for long distances and uphill driving. "This means that the XPower offers the highest efficiency in material pick-up and transport, as well as optimum acceleration and maximum performance in all loading cycles – even over long distances," explains Pfab.

The power-split ZF transmission is responsible for combining the two drive paths. It operates variably and adjusts the mixing ratio of the two drive paths continuously and automatically. This means that the wheel loader always operates at maximum power and efficiency, regardless of the application. With the expertise of its development partner ZF, Liebherr can integrate the transmission perfectly into the entire drive system and match all components precisely to each other. The result is enormous fuel savings compared to conventionally powered wheel loaders.

Robust, durable, and reliable

As the power is developed through the interaction of two drive paths, enormous robustness is achieved. The load is thus distributed across both drive paths and the components have a significantly longer service life. Operators can work without interruptions, increasing operational reliability. The robust design and use of high-quality materials also ensure that the gearboxes operate reliably even under extreme conditions. This is a decisive advantage for customers who depend on high machine availability and low maintenance costs.

THE INDUSTRY'S HARDEST WORKING BELT CLEANERS

Martin's family of QC1+™ primary belt cleaners deliver industry-leading performance for demanding bulk material handling operations all over the globe. These cleaners efficiently discharge material from the belt while minimizing any of the carryback that can lead to belt damage and component failure, added maintenance and clean-up, and diminished production.

QC1+™

Featuring Martin's patented *Continuous Angle Radial Pressure* blade-to-belt technology, our application-specific urethane blade formulations, rugged mainframe construction, and easy blade replacement design, the innovative QC1+ maximizes cleaning effectiveness for all belt sizes and speeds.

martin® engineering

How to manage vehicle safety around material handling equipment

David Thomas, General Manager, ZoneSafe

Activities associated with material handling carry many risks. The movement, control, storage, or disposal of products involves heavy goods and machinery, creating difficult working conditions and safety risks.

There are many safety risks to consider around machinery and workplace transport. Conveyors, HGVs, forklifts, shovel loaders, pallet trucks, and other similar industrial vehicles are commonly used, all of which present well-known risks to operators and workers.

Last year, a recycling company was fined more than £2 million following the death of an agency worker hit by a loading shovel. The victim was struck and run over by the vehicle four years previous, in what the Health and Safety Executive (HSE) later called an avoidable accident. The investigation found the company guilty of corporate manslaughter. It stated that the use of effective segregation of vehicles and pedestrians through an alternative traffic route at the site would have prevented the death (1).

This is sadly an all-too-common result of such accident investigations. Loading shovels, in particular, have come under the spotlight within the recycling sector. The HSE issued a safety notice about their use following nine fatal vehicle-pedestrian accidents over a four-year period . The HSE notice highlighted the need for improved driver visibility and rigorous segregation between vehicles and pedestrians (2).

Forklifts, too, are disproportionately represented in serious and fatal accidents in the workplace. A UK plastics manufacturer was fined £400,000 when an employee was seriously injured by a forklift truck. In an area with multiple pedestrians working in close proximity to vehicles, the man was struck by the forklift while walking to collect materials, and the driver failed to see him. The investigation found that although safety systems were in place, they were not being followed, and nothing was in place to measure compliance.

These accidents make clear the need for an ongoing and dedicated commitment to safety around vehicles and pedestrians. Vehicle operators should always be able to maintain strong situational awareness of the other vehicles and people around them.

The best way to reduce the chance of these terrible accidents is to effectively segregate vehicles and pedestrians around material handling operations.

This can be achieved through:

- Traffic control systems such as one-way routes, dedicated reversing areas, crossings, safety signage, traffic lights, and barriers.
- Separate routes with dedicated paths for pedestrians and vehicles are clearly marked with signage, barriers and floor markings.
- Personal protective equipment (PPE), including high visibility jackets, helps make pedestrians as visible as possible to drivers.
- Safety technology to alert drivers and pedestrians to the presence of risk. Proximity warning technology alerts drivers and pedestrians to nearby hazards through pedestrian tag vibration, in-cab audio and/or visual alarms that instantly raise awareness at a crucial moment so that accidents can be avoided.
- Active signage that communicates directly with moving vehicles automatically illuminates on approach so that anyone in the area is immediately aware of the risk around them.

The nature of material handling activity makes risk unavoidable, but there are ways to minimise and manage that risk efficiently. Anywhere vehicles and pedestrians work closely with each other, there is potential for danger —the key is to take a proactive, preventative approach that targets hazards and stops accidents in their tracks.

Get in touch with ZoneSafe - https://zonesafe.com/contact-us/

DEVELON and ATLAS boost their Material Handler Business with Partnership Agreement

DEVELON, formerly Doosan Construction Equipment, has signed a partnership agreement with ATLAS GmbH, based in Ganderkesee in Germany, a leading manufacturer of cranes, wheeled, crawler and rail-road excavators, and of material handlers in various weight and performance categories.

Under this new partnership agreement, selected wheeled material handler models will be manufactured by ATLAS to complement DEVELON's existing range of material handlers. Each model will be fully integrated into the DEVELON lineup, embodying the brand's identity and commitment to quality. Commercialization of the models will start in selected European markets and, in the future, expansion would be possible.

Jayden Lim, CEO at DEVELON Europe, stated: "At DEVELON, we are continuously developing our product range. The new partnership with ATLAS will help us to build on the success we have had in material handling for the waste and recycling industry across Europe. We are delighted to be collaborating with a partner with the established experience and stature of ATLAS."

Brahim Stitou, CEO at ATLAS GmbH, said: "ATLAS and DEVELON have entered into this strategic partnership in order to jointly expand our market coverage and machine population in regions around the globe where we still can increase our presence. Both our companies focus on premium service, innovation, and our ultimate objective of making our customers happy. We already look forward to our future partnership and are confident that it will be beneficial for all of us."

Overall, the new partnership will further ATLAS's and DEVELON's expertise in the material handling sector, enhancing the companies' abilities to deliver reliable and high-performance solutions tailored to demanding customer applications.

Inspections and Maintenance of Safety Harnesses

Falls from platforms continue to be one of the most common incidents involving powered access equipment which is why fall protection is not just a precaution, it's a necessity.

Safety harnesses and lanyards are life-saving pieces of equipment and act as the last line of defence against a potentially fatal fall. However, if misused or neglected, this can put operators at unnecessary risk.

Common Faults

Many indicators of damage can be easy to overlook. If a safety harness is used daily, this will result in the equipment showing signs of deterioration much quicker so it's crucial that any faults are identified prior to use.

Leaving harnesses and lanyards in direct sunlight, such as in the back on a vehicle or on a windowsill, can be extremely damaging. Over time, ultraviolet (UV) rays can weaken the webbing and stitching, compromising the strength of the equipment.

Many operators have a habit of placing the harness on the floor before stepping into the harness and putting it on. Seeming like a harmless and convenient action, but in fact placing the equipment on the floor exposes it to oil, dirt and sharp debris. These chemicals can cause the material to degrade or become damaged.

Operators may decide to write on their harnesses to identify that it is theirs, or to differentiate equipment. The chemicals found in permanent markers or pens can weaken the fibres and possibly obscure vital information such as serial numbers and expiry dates. An alternative to distinguish between safety harnesses would be coloured cable ties which will not cause any damage or hide key information.

Manufacturers give all safety harnesses an expiry date. Materials can break down over time, causing the harnesses to become unreliable and unsafe. No matter how good it may look, always refer to the manufacturer's guidance.

Inspections

A safety harness and lanyard should be inspected before and after use:

1. **Look** – visually inspect the harness, checking for cuts, frays, burns or signs of damage.
2. **Feel** – physically check for anything unusual that may suggest hidden damage.
3. **Function** – can the harness carry out its intended use? Test buckles to make sure they lock and release correctly.

The Health and Safety Executive (HSE) recommends that a documented inspection should be caried out by a competent professional approximately every six months. Depending on the environment you operate in, you may need to conduct these checks more regularly.

Maintenance and Storage

Never assume that one cleaning product will be suitable for all types of harnesses. The manufacturer's instructions should be followed when cleaning equipment.

Safety harnesses should be kept in a cool, dry environment, away from direct sunlight and sources of heat. The storage area should be in a safe place, away from unauthorised use and inaccessible to rodents. Chemicals such as acids, alkalis and solvents should be kept away from the equipment which could damage the materials.

As an IPAF training centre, Certora can deliver fully accredited IPAF approved safety harness training. This can be completed remotely as e-learning, or instructor led at our training centre or your own site. Upon completion of IPAF's Harness Awareness and Harness User courses, delegates will gain the skills and knowledge to implement strategies for checking and maintaining equipment.

For more information, contact Certora today and one of their experienced team of training co-ordinators will be more than happy to help – 01246 386900.

New JCB Hydradig is a big plus for ABC Waste Management

Two new JCB Hydradigs have been earning their keep from day one of their delivery to a waste management company in Northern Ireland – thanks to their ability to do multiple jobs.

Purchased by Portadown-based ABC Waste Management, the JCB Hydradig 110W Plus was supplied by dealer Dennison JCB. It joins a JCB TM320 Wastemaster, a JCB 560-80 Wastemaster Loadall, a JCB JS20MH materials handler and JCB 150X tracked excavator in the company's fleet.

ABC Waste Management Managing Director, Bobby Jameson said: "JCB machines are superior in build quality which we need as we operate in a harsh environment. We like to spec them up, so they're well protected for what they have to do.

"One of the biggest plusses of the new Hydradig is the versatility – in a single day it may bale cardboard, work on our picking line and clean up the yard. The new model's ability to handle material, dig and travel at speed means there is no limit to the number of jobs it can do. Everything has been well thought through so it can do many different tasks, powering multiple attachments.

"Health and safety was also one of the main reasons for choosing the Hydradig Plus. The 360° visibility means the driver can see anyone standing behind him as he can see all around the machine. The manoeuvrability is excellent too, the machine can move all around the yard with ease. We're really impressed with it."

The JCB Hydradig Plus offers a tailored mix of specification to suit customers and boost comfort levels for operators. The machine has the JCB Smooth Ride System, single point axle greasing, reverse steering and two low-flow auxiliary lines as standard. In the upgraded cab, the operator gets a deluxe air suspension seat and a Bluetooth radio with an LED work light package and a refuelling pump. ABC have added a bucket ram guard and reversible fan for added protection in the harsh waste environment.

The machine is powered by a Stage V compliant EcoMAX diesel engine, delivering 81kW, with a hydrostatic transmission. With an operating weight of 11-13 tonnes, depending on specification, the Hydradig provides a maximum roading speed of 40kph, making it easy to transfer between work sites.

Established in 2008, ABC Waste Management offers a range of waste management services including skip hire, hazards disposal and baling to both residential and commercial customers from its base in Portadown, Northern Ireland.

Hyundai extends its reach with a new Material Handler

Hyundai Construction Equipment is introducing the HW250A MH, a dedicated materials handler for the recycling and waste handling industries. With a choice of booms and an elevating cab structure, the HW250A MH combines productivity with fuel efficiency.

- 2.9m elevating cab delivers maximum working area visibility
- Gooseneck or straight arm to meet varying job site requirements
- Side arm and main boom cylinders offer increased stability and strength
- Upper structure side bumpers provide maximum protection
- Dual proportional controls for a range of attachments

High lift

The HW250A MH builds on the success of Hyundai's popular wheeled excavator range. Weighing 26.1-tonnes, the machine comes as standard with front and rear outriggers, providing maximum stability when lifting. Equipped with a 6.5m mono boom, the handler has a 4.5m gooseneck arm as standard, for use with an orange peel grapple or a clamshell bucket. Alternatively, customers can opt for a 4m straight arm if using a sorting grab. Maximum working height is 12m with either configuration.

Sitting on a 2.8m wheelbase, the materials handler has a parallel lift cab that delivers up to 2.9m of additional height, to allow operators to see into the working area. The support frame is constructed as a box structure for maximum durability. There is a manual lift control in the cab and a second control at ground level in case of emergencies. The robust upper structure is further protected by standard side bumpers, to protect against impact and a falling object (FOGS) guard is available as an option.

Twin side-mounted main lift cylinders are used for the main boom, delivering increased stability and balance, when compared to a single central cylinder. The machine is equipped with additional steps on the front outrigger and on the cab, to make it easier for the operator to enter and exit safely.

Operator comfort

The operator's seat and controls can be adjusted to suit all sizes of driver, with independent height options for the seat and console. There is a high-capacity air conditioning system and the well-known Hyundai wheeled excavator cab has extensive glazing for maximum visibility. A 7" colour monitor and toggle switch allow the operator to select individual machine preferences. The monitor also provides real-time operating data and various diagnostic functions and can be used to display the rear- and side-view camera feed.

The HW250A MH builds on Hyundai's presence in the market and pushes into new sectors across Europe, in demolition, recycling, forestry and dockside bulk handling. The machine benefits from the company's expertise in the wheeled excavator market, building on that experience to deliver a dedicated materials handling solution, with the backing and support of Hyundai's European dealer network.

SWM Recycling invest in a Sennebogen 830E supplied by Molson Green

As one of the oldest boroughs in the UK, Barnstaple in Devon is known for its rich history and tourism. It is also the headquarters of the region's leading recycling company, SWM Recycling.

Recently celebrating their 60th anniversary in the recycling and waste management business, the company aims to deliver a comprehensive and cost effective total waste management service for a wide range of customers across the region.

As recycling methods have improved, the machinery used to handle waste material has developed too. SWM have been at the forefront of developing their fleet of machinery to allow themselves the ability to handle, process, and dispatch segregated material more efficiently, more safely and more profitably.

One of the latest additions to the company's fleet is a new Sennebogen 830E material handler which joins an existing, similar machine in their ferrous and non-ferrous processing yard. 'We have been expanding our metals recycling facility to manage the growing volumes of material we are handling on an annual basis.' Managing Director Phil Akers explains. 'As part of our recent expansion plans, we wanted to add a second crane which would streamline our material handling requirements.'

Supplied by the UK's Sennebogen dealer, Molson Green, part of the Molson Group, the 830E is one of over 20 models in the German manufacturer's extensive range of machines which covers a huge weight range from 18 to over 400 tonnes operating weight and is manufactured in state of the art facilities in Straubing, East of Munich.

The 830E comes with an operating weight of between 38 and 48 tonnes depending on the detailed specification which includes wheeled or tracked undercarriages, a range of pylons to elevate the upper structure and a range of boom and stick options covering 14m to 17m working range. Grab and clamshell capacities range from 400 litres up to 2000 litres.

Mounted on a long and wide wheeled undercarriage, the four-point outriggers provide the machine with a strong and stable base. Access from the ground is provided by a set of conveniently located and sturdy galvanised steps and handrails ensuring slip free entry to and from the spacious Maxcab. With its sliding door providing easy access into the cab, the operators of the 830E are greeted with a well laid out and spacious workspace in front of them. Almost entirely surrounded by glass, the operator has a clear view around them and when the cab is elevated to a maximum height of over 4m from the ground, that all round vision becomes even better. The ergonomically shaped joysticks provide ample feel to the business end of the machine and thanks to the finely tuned hydraulic system, allows smooth and precise movements of the boom, stick and grab.

At the heart of the 830E sits a fuel-efficient, StageV, Cummins 6.7 engine developing 188kW at just 1900rpm. Using Cummins' compact, high-efficiency SCR dosing unit and a DPF into a single flow-through unit which is 70% smaller and as much as 30 percent lighter than previous iterations, allows the entire upper structure to remain very compact with a low overall height. Sitting lengthways in the upper structure's offside, the huge gullwing canopy covering it opens up as one to reveal the engine, cooling pack and pumps and allows for simple, safe and easy access to all major components for servicing and maintenance requirements. To the top of the upper structure, a substantial boxing ring prevents any falls from height when accessing the top covers.

SWM have chosen the 17m equipment which comprises of a 9.8m straight boom with a 7.5m grab stick carrying an 800 litre five-tine scrap grab manufactured by Canadian specialists Rotobec and supplied through Molson Equipment. This configuration gives the machine a ground level reach of just over 18m and a load over height of almost 16m. This impressive configuration allows the 830E to undertake every task the company asks of it. 'The new arrival will effectively double our workflow at the yard.' Phil comments. 'It will be feeding our static shear with incoming material, feeding our Spalek screen and then loading out the processed material for onward recycling. We are also looking into increasing our volume of export material in the near future. The most cost effective way for us to do this is to fill containers with material and the new 830E will take a prime roll in fulfilling this task too.'

Already familiar with the Sennebogen 830E, SWM's decision to purchase the second machine was made easier thanks to the first machine's excellent history of reliability. 'We have been dealing with the Molson team for several years and find them very thorough and professional people to deal with.' Phil commented. 'We have encountered very few issues with the original machine but when we did, Molson were out very quickly to sort the issues out. Their delivery time was right for us and the entire package they put together was ideal for us. When you get this level of service from a dealer, you don't want to take the risk and go for the unknown.'

Volvo CE unveils new generation wheel loaders for enhanced productivity

Volvo CE builds on a successful year of innovations with the launch of its new generation wheel loaders, designed for improved productivity, operator comfort and safety.

Volvo CE is introducing the first wave of a new generation of wheel loaders, starting with five models ranging in size from the L150 to the L260. Designed for optimal productivity, operator comfort and safety, these new wheel loaders are enhanced by innovative new technologies and service solutions. Customers will benefit from these new machines when they are introduced across select markets globally during 2025.

First wave of new generation wheel loaders

For 70 years, Volvo CE has been at the forefront of wheel loader technology. These innovative new generation wheel loaders are engineered to enhance productivity and efficiency across a wide array of applications, including rehandling, material handling, quarrying, waste and recycling, and earthmoving.

The five revamped models are the L150, L180, L200 High Lift, L220 and L260. Aside from a fresh design, these hard-working and truly versatile machines now have even faster cycle times, exceptional performance, and unmatched operator comfort. They are packed with intelligent solutions to help customers maximize productivity and profitability.

Alexis Delatolas, Global Product Manager for Wheel Loaders at Volvo CE, said: "Our new generation wheel loaders represent a significant leap forward in technology and design. With these models, we're not just enhancing productivity and comfort but also setting new standards for innovation and efficiency in the industry. This latest launch is part of our most ambitious year yet, as we continue to introduce a range of groundbreaking products and services across multiple technologies to meet our customers' demands, wherever they are in their transformation journey."

Innovative new technologies and service solutions

The new wheel loaders benefit from:

Optimal productivity and fuel efficiency thanks to a host of new features like new generation load sensing hydraulics, automatic bucket levelling, intelligent Auto Bucket Fill feature and updated Smart Control.

Exceptional operator comfort with a revamped cab and the introduction of the acclaimed Volvo Co-Pilot, setting new benchmarks for comfort and functionality.

Ease of service to ensure maximum uptime with a tilting cab, brake wear indicators located on the wheels, new service platform and harness anchor points outside the cab.

Exceptional safety inside and out with new optional safety features such as Volvo Smart View and the updated Collision Mitigation System, new handrails and steps, automatic door opening and enhanced lighting.

Introduced across select markets

Customers can get even more out of their machines by pairing with digital solutions like Load Assist with On-Board weighing for real-time load data, Operator Coaching and Tire Pressure Monitoring System. The new Load Ticket solution is available to streamline invoicing for wheel loader operators by digitalizing the flow from machine to the office, while Site Operations helps manage mixed-fleet job sites. What is more, Volvo's CareTrack telematics system offers 24/7 monitoring to reduce repair costs and maximize uptime.

The new generation wheel loaders will be gradually introduced across select markets globally during 2025.

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CDE set to showcase how it is enabling PMG to transform waste into opportunity

The waste recycling facility in Bristol has been operational since February...

Wet processing technology expert CDE has commissioned a 25tph waste recycling facility for PMG in Bristol, which will be showcased at an open house event next month.

PMG is a family-owned business and leading provider of road sweeper and tanker hire across the south-west of England.

Operating for 35 years, PMG provides road sweepers and tankers as well as waste management.

Operational since February, the new site at Severn Beach is home to the company's second CDE wet processing plant and will process tanker wastes, such as gully waste, road sweepings, and tipper waste to produce a selection of sand and aggregate products.

Clare McGuinness, Managing Director at PMG commented: "The opening of this waste recycling facility marks a major step forward in our commitment to sustainability. This plant will not only divert more waste from landfill but will transform waste into valuable recycled materials. By turning road sweepings, and gully waste into reuseable resources, we're not only protecting the environment but also creating new revenue streams that support our local economy."

With a growing emphasis on creating a circular economy through recycling and repurposing of waste material to align with the UK's circular economy objectives, Fergal Campbell, UK key accounts manager at CDE, says this facility is contributing to long-term environmental sustainability.

"We're delighted to have partnered with PMG on their second waste recycling plant. We're determined to help our customers transform waste it into opportunity, such as high-quality sand and aggregates, which are essential for construction projects. By investing in CDE's technology, PMG is investing in a sustainable future.

"We look forward to showcasing our technology at this open house event next month to exhibit our expertise and present our cutting-edge solutions."

Register now to secure your spot for this insightful open house event and discover how PMG and CDE are collaborating to lead the way in waste management.

For more information or to register to attend, visit CDE's website: PMG Open Day - CDE Events | CDE

Bruno: Decision making-software developed by Metso used by aggregate producers worldwide

Little known is the fact that, when it came to choosing 'Bruno' as the name for its unique software system that Metso makes available to customers, the Finnish crusher manufacturer delved into 1800s-era history, drawing inspiration from the life of noted engineer, entrepreneur, and inventor, Bruno V. Nordberg.

Born in Turku in 1857, Nordberg emigrated to the United States at age 22 settling in Milwaukee. There, in 1886, he founded the Nordberg Manufacturing Company and, in that moment, gave life to a business whose products have since become a byword for excellence in crushing across the globe.

Bruno simulation software comes in to its own when seeking to optimise aggregates production. Loaded with tech whose purpose is enable Metso users to improve optimization, its purpose is to help iron out some of the decision-making wrinkles that aggregates producers regularly face in the course of their work.

Described by Metso as 'an intuitive software program', Bruno was developed in 1994 to answer a question frequently asked in aggregates circles: How can one build an optimal aggregate production process?

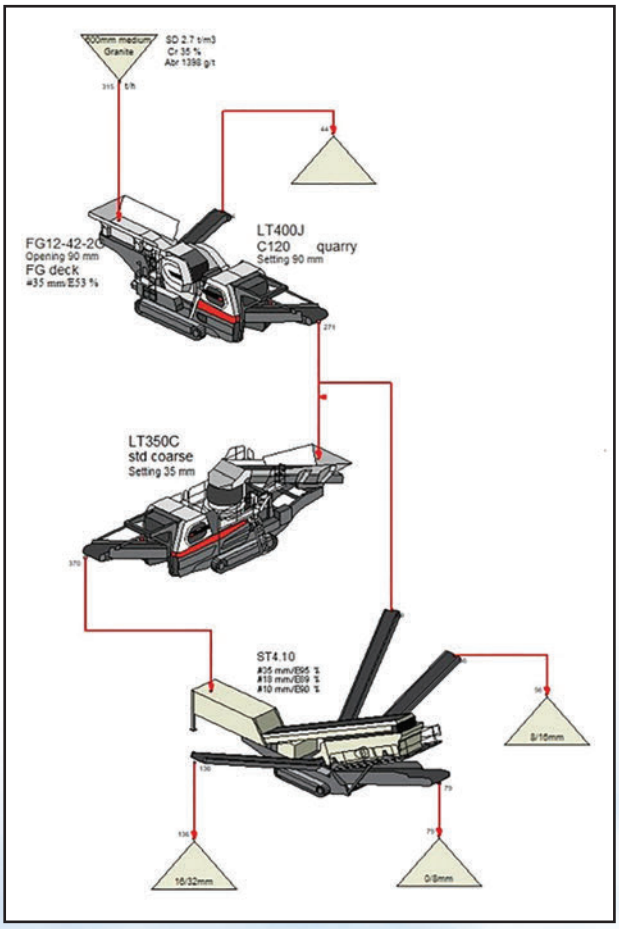
According to Metso, there is no one simple answer to that most challenging of questions: not least for the fact that 'optimal' can mean different things: for some, it means low operating costs; for others, it can mean having as little equipment as possible commensurate with the goal of producing exactly what customers need.

It was to throw light on this and other subjects that Metso was moved to develop Bruno as a technological device designed to assist aggregates producers with guidance in finding answers to many of the operational questions and decisions that face them from time to time.

Conscious that an aggregates crushing and screening process often requires adjustment and change for whatever reason (poor product quality and too high production costs being two examples), Metso has modelled Bruno so a user can test-bed suggested changes to determine if they would have the desired effect before unintentionally compromising the performance of their system in some other way.

In very simple terms, a quarry owner wishing to determine the model and type of crusher best suited to his situation, the application, and the outcome required in terms of finished aggregate, can access Bruno through Metso and its distributor network.

Accompanied by rock samples for analysis, factors peculiar to the quarry site and its situation for which the study is required are then processed through Bruno's complex and sophisticated software system before being supplied back to the quarry owner in a form that will significantly reduce, if not eliminate, the element of guesswork that sometimes is involved when investing in appropriate crushing equipment.



Screen capture of a Bruno flowsheet. The triangles represent product piles, and the percentages inside tell you how the plant production is distributed. The percentage on a Lokotrack shows crusher loading. The process is designed to maximize the production tonnage.

That Bruno proves its value can be seen in the fact that demand for what has become a proven software system has spread to a point where, today, there are 8,500 Bruno users located in 112 countries across the world.

Available to Metso owners under a controlled arrangement, it is especially useful to large companies with internal performance teams. Using it, they can make a change on Bruno and see what the result might be without first having to do it on site.

Using Bruno, users enter basic feed material and machinery data into the process. From there, the software will then predict how the process will perform, helping the user to determine the most optimal process for each specific situation.

Once an accurate model of reality is reached - a model that is close to reality in terms of product yields and settings on machines - then can a change be made and assessed to determine if the required effect has been produced, all without having to do it in real life. In that way, Bruno points producers in the right direction without having to go through the trial and error and the downtime and expense that would otherwise be involved. >>>

As a spokesman for Metso distributor McHale Plant Sales, said: "before commencement, it is much cheaper to spend a few extra desk hours making a feasibility plan rather than start blindfolded and risk making potentially costly changes."

"A scenario that showcases its value is one that many producers will easily understand. After equipment has been set and the process has started - and you notice that the crusher feed begins to include rocks that are larger than expected and too large for the crusher to process - what does one do?" he asks.

While the size difference may not be huge, it can be significant, sufficient to require operators to reline the crusher chamber and delay start-up. "In such a situation, Metso claims that, by using their Bruno system, an accurate estimate of the feed size could have prevented the issue from emerging in the first place" McHale Plant Sales contends.

Another scenario in which Metso claims the Bruno system could be applied is one whereby production targets change, and an existing setup doesn't fit needs anymore.

"In that situation, users can look to Bruno to quickly and easily find out how the process flow can be reset and, in addition to resetting the process flow, to offer the possibility to try new equipment - one example in certain applications being to decide if it might be effective to change from one crusher to another" McHale says.

"A common reasons why this might happen - and a machine would fail to deliver as expected - arises from the fact that rock type is not properly taken into consideration. For instance, high abrasiveness can cause unexpectedly short wear part lifetime which increases downtime and operating costs' they add.

Under their Bruno umbrella, Metso can analyse a rock sample from a customer site to determine its specific characteristics and feed the information into Bruno. Moving forward, accuracy then comes from the information that has been gathered from measuring real equipment, exactly the same as ones used by customers in their quarries.

As McHale notes: "there is no definitive right or wrong answer for any process, though there can be several equally good ones - scenarios that can be compared with Bruno as a precursor to the ultimately choice that only a producer can make, namely: what preferred outcome should be emphasize in their production processes?

Helpful in that context is the Bruno process flowchart produced as a spin-off feature which Metso can provide as standard issue to users.

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CDE is proud to partner with PMG to showcase their new Waste Recycling Facility in Bristol.

Join us to mark the official opening of PMG's expanded operations in the South West. Enjoy a dedicated tour of their new 25TPH waste recycling plant and learn how the plant processes gully waste and road sweepings, transforming it into high quality recycled sand and aggregates.

Scan QR code to register

Visit cdegroup.com

Drying out for a greener tomorrow: The benefits of reducing water logging in quarries

With a career spent in quarrying and concrete product manufacturing, Owen Batham, Sales and Marketing Director at Elite Precast Concrete is ideally placed to look at how reducing water logging within quarries and in material storage can contribute to the environmental sustainability in quarries, these include:

Protection of local ecosystems and biodiversity

Effective water management in quarries, including reducing water logging, helps maintain the health and diversity of local ecosystems, as preventing excess water gathering, quarries can avoid creating conditions that disrupt habitats or lead to the loss of biodiversity.

Sustainable water management practices, such as controlled drainage and the creation of wetlands, can even enhance local habitats, supporting a wider range of plant and animal species.

Prevention of Water Pollution

Water logging can increase the risk of polluted runoff, carry silt, sediment and contaminants into nearby watercourses. By reducing water accumulation and managing discharges, quarries help prevent water pollution, protect aquatic habitats and comply with environmental regulations.

Proper water management also minimises the risk of accidental spills or leaching of harmful substances into groundwater or surface water systems.

Flood Mitigation and Water Regulations

Quarries that actively reduce water logging can help manage stormwater and mitigate flood risks. By incorporating retention basins, wetlands and controlled drainage systems, quarries can absorb and store excess rainwater, reducing runoff and the potential for downstream flooding.

These measures also contribute to water regulations and groundwater recharge, supporting long-term water availability for communities and ecosystems.

Sustainable Use of Resources

Minimising water logging allows for the recycling and reuse of water within quarry operations, reducing the reliance on fresh water sources. This not only conserves valuable water resources but also decreases the quarry's overall environmental footprint.

Reduced Soil Erosion and Sediment Loss

Standing water can destabilise quarry surfaces, leading to increased soil erosion and sediment transport. By keeping storage areas dry, quarries reduce the risk of sediment-laden runoff, which can smother aquatic habitats and degrade water quality downstream.

Enhanced Site Restoration and Post-Quarry Land Use

Quarries that manage water effectively are better positioned to restore sites for future ecological uses, such as creating wildlife-friendly lakes or wetlands. These restored areas can provide ongoing environmental benefits, including new habitats improved landscape aesthetics, and recreational opportunities for local communities.

Compliance with Environmental Regulations

Proper water management, including the reduction of water logging, is essential for meeting UK environmental standards and planning requirements. This ensures that quarry operations minimise their impact on water resources and avoid regulatory penalties.

As well as being more sustainable, Owen believes that reducing water logging also offers the following benefits:

Lower Transportation Costs

Minimising water ingress in stored aggregates and quarried materials ensures that the materials retain their original, dry weight. This prevents unnecessary increases in transport costs, as haulage charges are often weight-based. Drier stockpiles mean you're not paying to move excess water.

Improved Handling Efficiency

Dry materials are significantly easier to handle, load and process. This reduced the manual handling time, minimises equipment wear and lowers the risk of slips and injuries associated with wet, slippery conditions in storage bays and loading areas.

Preservation of Material Quality

Water logging can degrade material quality by causing clumping, leaching of fines, or encouraging mould and corrosion, particularly in recycling or secondary aggregates. Keeping materials dry helps maintain their structural integrity and ensures consistent product quality for end users.

Reduced Material Waste

Materials damaged by water exposure – whether through spoilage, contamination, or loss of fines – often have to be discarded, leading to increased costs. Effective water management and storage solutions reduce this wastage, saving money and resources.

Enhanced Operational Efficiency

Dry stockpiles are easier to work with, leading to smoother and faster loading, processing and delivery operations. This translates to improved productivity across the site.

Lower Energy Costs

Wet materials are heavier and may require additional drying or separation processes before use, which increases energy consumption. Keeping stockpiles dry reduces processing needs and associated energy costs.

Extended Shelf Life

Many quarried materials, especially those used in construction and concrete production, have a longer usable lifespan when kept dry, reducing the frequency of stock turnover and need for replacements.

Improved Safety

Waterlogged storage areas can create unstable ground conditions and increase the risk of slips, trips and falls. Proper drainage and dry storage help maintain safer working environments for site personnel.

Compliance with Regulations

Effective water management and storage practices help quarries meet strict UK environmental and safety regulations, including those related to groundwater protection, runoff control and pollution prevention.

Cost Savings

Collectively, these benefits result in substantial cost savings – through reduced transport and labour costs, lower energy consumption, less materials waste and improved operational efficiency.

Conclusion

Owen concludes that by implementing robust drainage and storage solutions – such as well-designed bays, covered stockpiles and efficient site water management – UK quarry operators can support biodiversity, protecting water quality, mitigating floods, conserving resources and enabling responsible site restoration. These practices help quarries operate in harmony with their surrounding environment and contribute positively to local communities.

As manufacturers of Legato® and Duo™ interlocking blocks, regularly used in the building of storage bays within the quarrying industry, Elite Precast Concrete have seen how storage systems are paying dividends by preserving material integrity, streamlining operations, reducing overall costs and ultimately contributing to the environmental sustainability in quarries.

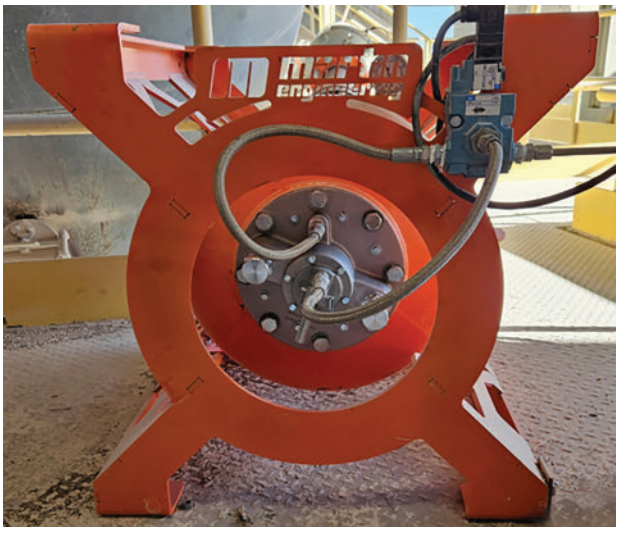
Elite Precast Concrete work with a number of specialist companies, who can design and install storage bay solutions to ensure the maximum use of space and an efficient dry solution.

Call 01952 588 885 to speak to Owen or visit www.eliteprecast.co.uk for further information.

Martin® X-Stand Improves Air Cannon Efficiency and Safety

The global leader in bulk material flow technology, Martin Engineering, has introduced a heavy-duty air cannon mounting system. The Martin® X-Stand is an organization system that safely keeps air cannons away from super-heated or potentially hazardous areas while offering easy service access. The result is clearer walkways, improved safety, and greater maintenance efficiency for a lower cost of operation.

"Though secure when held in place by pipework, air cannons can be precariously placed around preheaters, hoppers, and drop chutes, making them hard to get around or reach by maintenance crews," said Sid Dev, Product Manager of Air Cannons at Martin Engineering. "Some of these applications can also be in high-heat environments in loading zones, so we worked with customers to formulate a more practical and long-term solution. The X-Stand ended up having more benefits than we initially thought!"



Martin® X-Stand organizes air cannons and protects maintenance staff.

Air Cannon X-Stand Specs

The X-Stand is a rugged steel cube frame that comes in 3 sizes to fit the 35-liter, 70-liter, and 150-liter air cannon tanks. These fit Martin® Hurricane and Typhoon Air Cannons. The largest model measures 36x36x36 inches (91.5x91.5x91.5 cm) and weighs ~175 lbs (~80kg).

Each cube has a sturdy cross-bar frame designed to distribute weight and absorb vibration from the cannon's firing. The central top hole allows easy access to the valve and attachments, while the bottom hole accommodates a standard 4-inch (~10 cm), 150 lb (~68 kg), 8-bolt ANSI (American National Standards Institute) flange to hold the cannon securely in place. The open sides allow easy access to the flange, hose connection, and tank removal. Solenoid boxes that enable manual firing and control the firing sequence can be conveniently mounted on the side of the rack.

The X-Stand is specially designed to fit different spaces and stack in several configurations for optimum space-saving, safer access, and ease of maintenance. The air cannons are still secured with a tether for added safety. X-Stands are delivered in assembled blocks with all the bolts and nuts required to secure them using standard tools. Air cannons are sold separately.

Martin® X-Stand with a solenoid box mounted on the side for better access.

Air Cannons Prevent Downtime from Clogs

Air cannons are the most effective way to clear material that's adhered to preheater vessels or silo walls, as well as clogs in hoppers, bins, and drop chutes. Instead of exposing workers to extreme heat, having them beat vessel walls with hammers, or entering dangerous confined spaces, air cannons do the job safely and remotely.

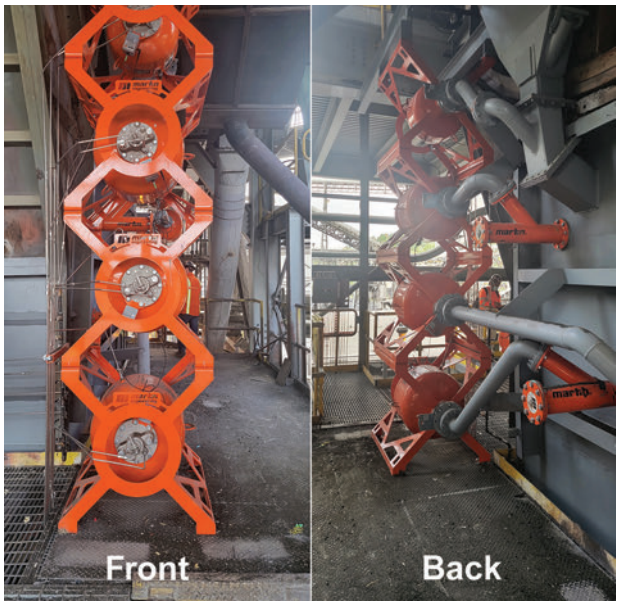
They comprise a 35, 70, or 150-liter tank connected to a compressed air system that delivers a powerful shot triggered from a solenoid box up to 200 feet away. Pointed in the direction the material flows, the high-velocity air passes through a nozzle across vessel surfaces to dislodge adhered material and clogs, promoting efficient throughput with minimal downtime.

Martin Engineering just celebrated the 50th anniversary of inventing Air Cannon technology. It holds the intellectual property for low-pressure cannons and continues to work on incrementally improving the technology for greater efficiency.

The X-Stand Solves Several Issues

Air cannons are commonly secured to a nozzle assembly next to the vessel. A wire tether ensures the tank doesn't fall should it suddenly detach from the assembly. This positioning can make access a challenge, particularly when the units are set close to a hot wall like a preheater or kiln.

The positioning also becomes an issue when air cannons jut into narrow walkways, or workers must step over 4-inch tubing to access maintenance areas. Since trips and falls commonly top the list of workplace injuries, proper headspace and unobstructed walkways help staff move through the area easily – particularly important when carrying large or unwieldy equipment or replacement parts.



Martin® X-Stand organizes air cannons and protects maintenance staff.

Installing an X-Stand system allows air cannons to be placed in the optimum position and provides the opportunity to rearrange tubing leading to nozzles. Moreover, equipment can be moved away from areas of extreme heat. This reconfiguration ensures safe passageways and maintenance access, improving workplace safety.

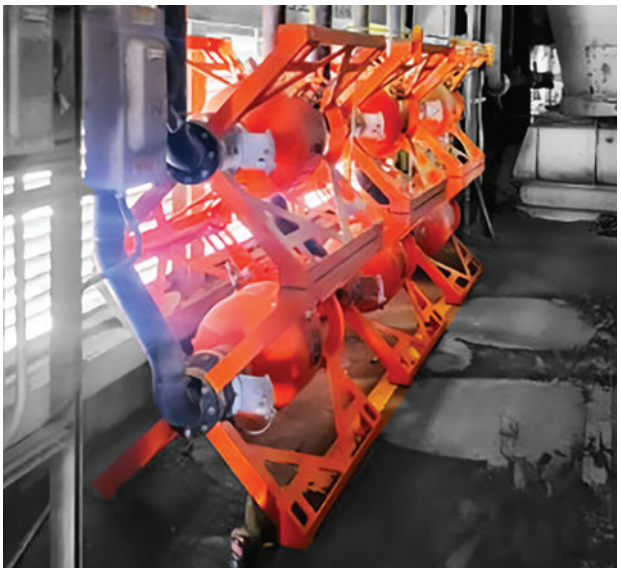
The positioning of the cannon can redirect pipes to go underneath the walkway, improving access.

"Through testing, we've found that there is negligible air blast power loss by extending the distance a few feet, and only about 5% power is lost with each elbow in the pipe," Dev pointed. "With strategic placement, the X-Stand will deliver safety results that justify any increase in the number of shots per sequence."

Some air cannon installations require mesh tubing to properly accommodate the tank's position and handle vibration from firing. Although commonly made with metal strands, the mesh tubing is considered a wear part that needs changing after long-term exposure to the punishing production environment, heated walls, and constant vibration. The X-Stand promotes the use of hard pipes with a longer equipment life and less maintenance for added safety and a lower cost of operation.

Use Examples from Field Tests

1) A cement plant operator sought to move cannons farther away from the super-heated kiln wall. The X-Stand construction moved the pipes overhead attached to Y-pipe assemblies with Thermo Safety Sheilds. The increased distance from the wall allowed for regular maintenance in a comfortable environment. Although nozzle replacement required workers to wear heat suits, the job could be done without downtime. The process was made faster and safer by merely closing the shield guard to prevent blowback, removing the flange in the Y-Pipe, and quickly replacing the nozzle – a 5- to 15-minute operation, depending on positioning.



Martin® X-Stand set away from the hot wall with pipes running overhead

2) To mitigate molten ash buildup that limited production along a superheated wall in a steel mill, four air cannons were placed to dislodge material and avoid downtime. To precisely place the air cannon shot, the tanks obstructed the inspection doors, preventing them from opening fully. Moving the tanks to stacked X-Stands a few feet away from the hot wall reduced the heat exposure for maintenance crews and reduced the time and effectiveness of inspections.
3) One bulk material operation had a hopper/silo raised off the ground to load transport vehicles passing beneath. Seasonal changes would raise moisture levels that cause clogging in the downspout. A grated walkway around the vessel was partially obstructed by jutting air cannons. Rather than the standard configuration with the cannons on their sides and valves facing outward, installers set up the X-Stand with the valves facing upward. Holes were cut in the floor grating, and the pipes were run under the walkway toward the nozzle assemblies. This ensured the tanks were organized and the walkway was clear while optimizing production.

Improving Safety and Access

After testing, participating operators said they liked the more organized approach in helping to keep congested operational areas as clear as possible. They were impressed with the cleaner look and the innovative solutions to pipe placement. Participants in field tests recognized no substantial change in performance from the original configuration.

"Martin is always listening to customers for ideas to improve safety and efficiency," Dev concluded. "The X-Stand is a result of that and is the next step to a clean, safe, and efficient bulk handling operation."

SBM welcomed visitors to BAUMA 2025 on a total of 650 m² of indoor and outdoor space.

Success across the board

SBM reports positive results from bauma.

SBM Mineral Processing is highly satisfied with the outcome of the recent bauma 2025 trade show. The Austrian full-range supplier put a lot of effort into presenting its products in the areas of rock processing, construction material recycling and concrete mixing technology and recorded a sustained high level of visitor interest throughout the seven days of the show. "In addition to the valuable exchanges with long-standing customers from our key European markets, it is always gratifying to see how many new contacts we make in Munich, including from new regions," summarises Managing Director Erwin Schneller.

"Initial feedback suggests that we can expect good to very good post-fair business. After the generally rather subdued mood of the past few months, we are seeing an increasing willingness to invest and rising demand in all sectors. We are very well positioned with our highly efficient, sustainable, and therefore highly subsidisable mobile plants in many markets. The same applies to our stationary technologies, which can be flexibly adapted to the respective possibilities and requirements."

Processing yesterday, today, and tomorrow

It was the eye-catcher of the SBM hall stand and, with its rich patina but still fully functional, the link to '75 years of SBM': the SAP 1 wheel-mounted crushing plant. Built in 1960 at today's SBM plant in Liezen, it was already a highly flexible solution for the production of road construction materials with its triple-deck screen.

Outside, SBM showcased its current mobile crushing plants, highlighting the great flexibility of SBM's modular technologies as well as the pioneering hybrid electrified drives with plug-in option. On display was the **REMAX 600** large impact crusher with double magnets and an extra-long single-deck secondary screen with recirculation, making full use of the 600 tph maximum capacity of the 1400 impact crusher to produce defined fines. The **JAWMAX 300** with double-deck secondary screen also proved a hit with customers: as only jaw crusher in the 40-tonne class, the highly mobile 300-tph plant enables three final fractions to be produced economically in a single pass - with all the benefits of pressure crushing in terms of wear costs and consumption.

The manufacturer celebrated "75 years of SBM" with the presentation of the SAP 1 mobile crushing plant, built in 1960, in fully functional original condition.

SBM presented its latest mobile and stationary crushing technology in the outdoor area.

With double magnets and a 6 m wide secondary screen, the REMAX 600 large impact crusher's maximum capacity of 600 t/h can be fully utilised for the production of defined fines.

"We are entering the home stretch," says Helmut Haider, SBM sales director for processing, on the subject of **"Autonomous Crushing"**. Decisive breakthroughs have been made in the development of AI-supported sensor technology for precise evaluation of raw materials, intermediates and standard-compliant end products, satellite-supported exchange between the real machine and its 'digital twin' working with thousands of reference data, and real-time adjustment of all process stages. Market readiness is currently planned for 2026/27. "Based on the relevant machine classes and their typical applications, we are already working on practical packages that will make 'autonomous crushing' attractive and profitable for as wide a range of users as possible," says Helmut Haider, giving an initial outlook on the positioning of the new technology. In addition to significantly reducing the workload for on-site personnel, this should also greatly simplify project planning and machine-specific maintenance.

SBM COMPONENTS: "Made in Austria" for everyone.

The reference list of SBM's Stationary Processing division includes over 130 processing plants worldwide for a wide variety of rock deposits and residual materials from the construction and industrial sectors, as well as almost 6,700 individual machines to date. Even compared to much larger plant manufacturers, the company has extensive in-house capacities in rock testing and application-specific plant design. The development and design departments are closely integrated and work in direct contact with the company's own production and long-standing, exclusively European supply partners. "In plant engineering, this often gives us a decisive advantage in the realisation of highly specific new constructions or conversions. For individual machines and plant components, we now offer a broad portfolio of state-of-the-art technologies that even outshines the offerings of many specialists," emphasises Division Manager Helmut Haider.

Under the new label **SBM COMPONENTS**, SBM Mineral Processing is now making its extensive range of individual machines available to OEM partners in the fields of plant construction/planning and machine trading. The offering also includes comprehensive end-customer-specific services in materials testing and performance design, as well as technical support for installation, commissioning, and after-sales. SBM COMPONENTS will start with fifty-four selected standard machines: twenty-four jaw crushers and horizontal and vertical impact crushers with hourly capacities up to 1,000 t/h, covering all crushing stages up to the highly profitable production of sand and high-quality aggregates. Classifiers and production screening machines are represented by a total of twenty-one machines; eight vibrating chutes and pushers make up the COMPONENTS segment for feeders and heavy-duty conveyors. In Munich, the manufacturer presented innovative crushing solutions for increased added value through targeted optimisation of high-quality fine aggregate and sand fractions, represented by the SMR 13/7/4 reversible horizontal impact crusher and the V8 vertical impact crusher (VSI).

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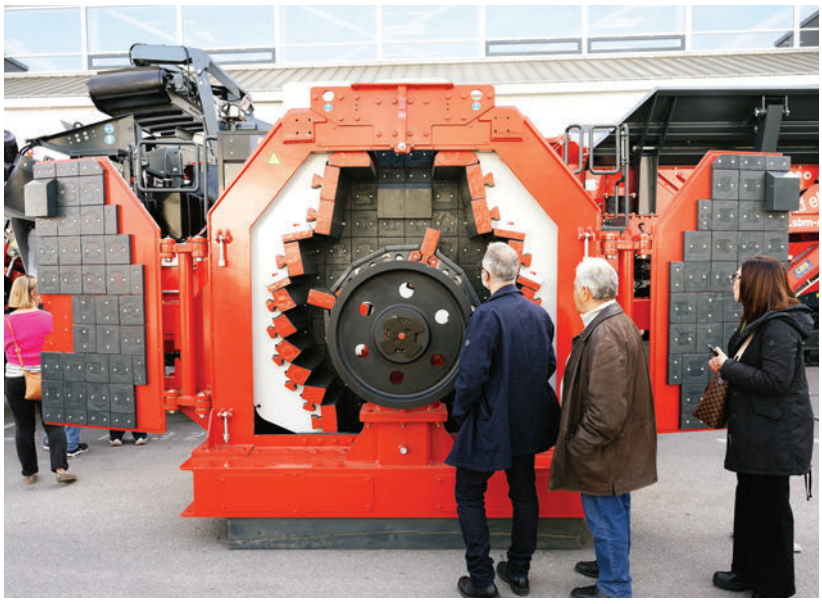
Concrete: Premium pays off

The mood was also upbeat in the concrete division of SBM Mineral Processing, where the semi-mobile and stationary **DYNAMIX® 2500, VARIOMIX®, LINEMIX®** and **TOWERMIX®** concrete mixing plants were exhibited in various configurations as detailed scale models.

Two mixing units from the **EUROMIX® 1600 NOVA** mobile concrete mixing plant, launched in November, shared the outdoor stand. Visitors were able to explore the significantly increased space available for maintenance work inside the smallest mobile SBM concrete plant. Virtually unchanged external dimensions continue to allow easy transport on flatbed trailers. In combination with modularly expandable silo units, horizontal rock hoppers and the control cabin, the complete mobile mixing plant can be set up ready for operation in just eight hours using a mobile crane, according to SBM.

Equipped with the BHS DKX 1.67 twin-shaft mixer with a solid concrete output of 80 m³/h, the plant is suitable for small to medium-sized construction sites with a daily requirement of up to 800 m³ of concrete or liquid soils for backfilling. Thanks to an efficient 'winter package', the EUROMIX® 1600 NOVA works all year round and can therefore be used as a temporary supplement to stationary plants for the production of high-quality mixes – including special and recycled concrete – or as a space-saving permanent solution in precast production.



The SMR 13/7/4 reversible impact crusher operates in the secondary or tertiary stage and is part of the new OEM product range "SBM COMPONENTS".

SBM presented the V8 vertical shaft impact crusher (VSI) as an economical solution for the production of high-quality sands.

"The great flexibility of the EUROMIX® technology across all performance classes was particularly impressive to many visitors," says Ernst Stöttinger, SBM Sales Director for concrete mixing technology, assessing the high level of interest in the plant range, which comprises a total of seven models with hourly outputs of 80 to 175 m³, or up to 300 m³/h in the combined "Duo" version. "Added to this is our high-quality premium design which, together with modular adaptability and expandability, offers high added value for individual projects and, ultimately, long-term value retention and thus investment security."

From automation to autonomy

In a pilot project, SBM Mineral Processing is currently working with an operating company and software specialists in the concrete sector on new solutions that will enable largely autonomous operation of individual process stages or complete mixing plants, including upstream material logistics.

Here too, the focus is on reducing the workload of the responsible personnel, in particular the mixing engineer, in routine operation and at off-peak times. In further development stages, production, which is already largely automated, will be further optimised by means of comprehensive sensor-based monitoring of the raw materials (moisture, temperature, etc.) and the mixing process (mixing moisture, consistency), which will make it possible to adjust the concrete recipes at short notice.

As a first step, autonomous concrete delivery to different delivery vehicles based on pre-ordered recipes has now been implemented. Once the truck mixer/tipper is correctly positioned under the delivery hopper, the driver releases the delivery. Special sensors in the hopper monitor the smooth filling of the concrete batches. Once the delivery vehicle has left the area and the passage has been secured, the mixer and hopper are automatically washed if necessary – for example, in the case of fibre or coloured concrete – or at a pre-set interval. Sensors monitor the swivelling range of the cleaning hopper – once cleaning is complete, the passage is reactivated via a barrier.

"Until now, concrete delivery has always had to be done 'by sight' – either from the control centre on site or remotely via cameras," explains Sales Director Ernst Stöttinger. "Our autonomous delivery works reliably, makes traffic in the plant safer and noticeably reduces the workload for the staff thanks to the controlled execution of all necessary work steps."

Liebherr trucks 'stack up the savings'

A Leeds plant hirer has broken ranks with its usual supplier to invest in Liebherr's articulated dumptrucks. They're quicker, more comfortable, and great on fuel says the customer.

Fresh from a landing a major contract Howard Plant Hire needed more truck capacity. The simple solution would have been to stick with the company which has supplied most of its large fleet of excavators, dozers and 30-tonne ADTs. But, mindful of increasing fuel costs and keen to see what was on offer from other manufacturers, Craig Coleman, Howard Group's plant manager, decided to cast the net further.

'I wanted to look at the wider market to see what was about and what sort of fuel figures could be realistically achieved. We spoke to contacts in the industry, to regular truck operators and the feedback was that there were just two manufacturers worth investing in at the 30t class. One of them was Liebherr.'

'As we talked through the build and specification we knew we had made the right decision.' **Craig Coleman, Group Plant Manager**

The new contract is to remediate former industrial land on the outskirts on Leeds in readiness for construction of a new technology centre. However, with most of company's truck fleet already earmarked for other projects, the reinforcements were needed. Talks were held with several dealers but it was a meeting with Andy Foster, Liebherr Great Britain's area sales manager, and subsequent conversations on specification that sealed the deal for four TA 230 G8 trucks. 'We didn't even take a demonstration machine,' said Coleman. 'We had seen the videos and liked what we saw and as Andy talked us through the build and specification we knew we had made the right decision.'

While the trucks are still at the 'running in' stage, they've already got the thumbs-up from senior management and operators alike. 'They are quicker across the ground than the older machines and are more comfortable,' added Coleman. 'The lads absolutely love them.

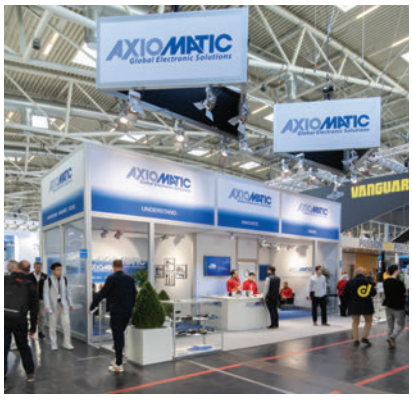
'They are also giving us good fuel consumption so far,' he continued. 'We will keep an eye on that through the Liebherr's LiDat telematics system. When we initially spoke with Andy the quoted fuel figures of just 14.98 litres per hour seemed low but so far they are achieving this. If we can save just one litre of fuel per hour per truck, the savings start stacking up straight away. We have also taken out a comprehensive service agreement which means Liebherr will look after all the maintenance to ensure they stay in first-class working condition. It just all makes financial and operational sense for us.'

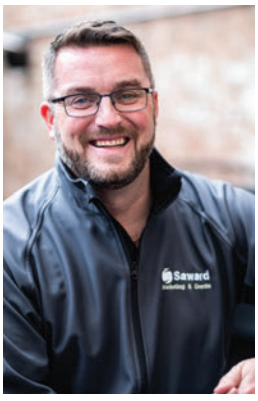
'If we can save just one litre of fuel per hour per truck, the savings start stacking up straight away' **Craig Coleman, Group Plant Manager**

Powering the TA 230 G8 is a 12-litre, 6-cylinder D956 engine supplying 360hp and, riding on 750/65R25 tyres and heavy-duty axles, the truck offers ground clearance of almost 600mm. Given suitable ground conditions, top speeds of 57km/h forwards and 16km/h in reverse can be achieved while times for tipping and returning the 18.1m3 skip are 12 seconds and 8 seconds respectively.

All four trucks ordered by Howard Plant – part of the Howard Civil Engineering Group – run on the wider tyres option and were supplied without tailgates for hauling a mixture of soils and concrete from the former building's foundations. To increase operator safety, two of the trucks are fitted with additional spill guards to the top of the skips to prevent damage from larger lumps.

Reflections from Bauma 2025: Setting the tone for the future of construction exhibitions





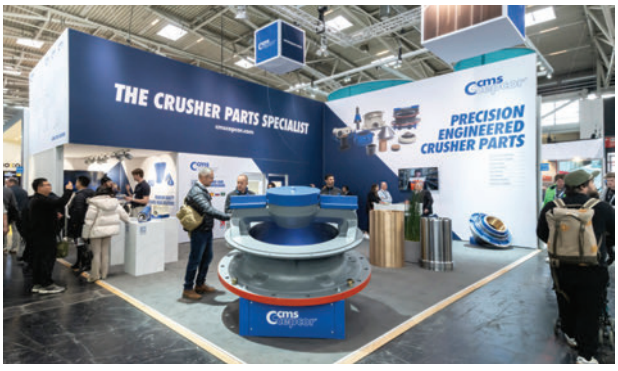
As the dust settles on Bauma 2025, the global construction industry is still riding the wave of momentum created by another record-breaking edition. With thousands of exhibitors and attendees converging in Munich, the event once again proved its status as a cornerstone of the international construction calendar.

But for many, the impact of Bauma begins long before the doors open. At Saward Marketing & Events, our work with clients began months in advance—shaping strategy, designing impactful stands, and aligning every element with clear business objectives. Our team was on site weeks before opening day, ensuring every detail was delivered to the highest standard. Once live, it was incredibly rewarding to see our clients' spaces thriving—engaging audiences, generating leads, and elevating their brands.

Bauma's influence doesn't end with the final day. As we supported our clients through safe and efficient breakdowns, conversations had already shifted to "what's next?" And with a packed events calendar ahead, that question is as exciting as ever.

The innovation and ambition showcased at Bauma set a high benchmark for the rest of 2025. Events such as ICE Expo in Ireland and Plantworx in Newark will benefit from this renewed energy, with many exhibitors eager to carry forward the momentum and raise the bar further.

Looking ahead to 2026, major shows like ConExpo, ScotPlant, and Hillhead are already in focus. The insights gained, relationships strengthened, and successes celebrated at Bauma will no doubt shape strategies for these key platforms, reinforcing the vital role that live events continue to play in the construction and plant industries.



Final thoughts...

Bauma 2025 may be over, but its impact is just beginning.

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