

AGGREGATE  
WASHING &  
SCREENING

bauma  
PREVIEW

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

March/April 2025 | Issue 91

QUARRYING RECYCLING BULK HANDLING  
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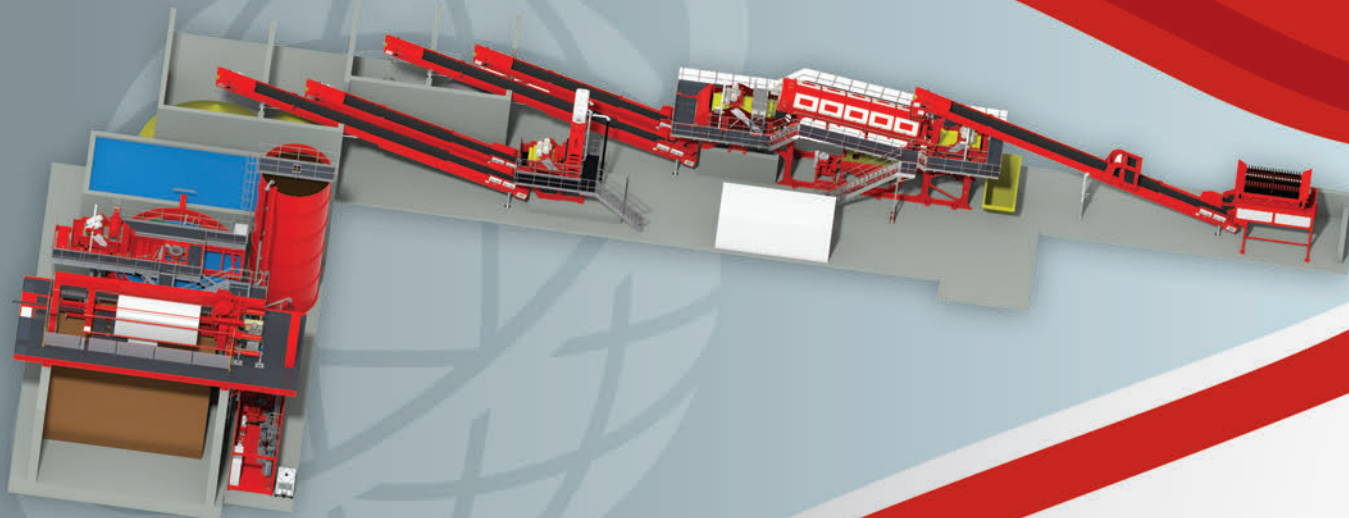
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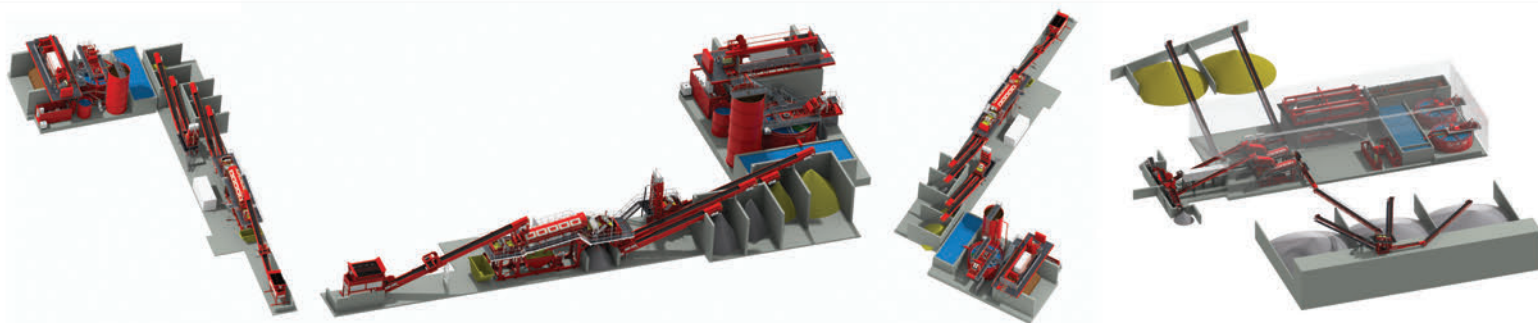
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# Welcome to issue 91

Welcome to second edition of 2025 - issue 91.

In this second 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 **Aggregate Washing & Screening and a preview of bauma.**

This year the Hub-4 magazine will 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 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 **Material Handlers in the Waste Industry & Metal Recycling**, I welcome any editorial contributions for this issue.

**John Edwards**  
Editor

**MAY | JUNE 25**

**RECYCLING -  
MATERIAL HANDLERS IN THE WASTE  
INDUSTRY**

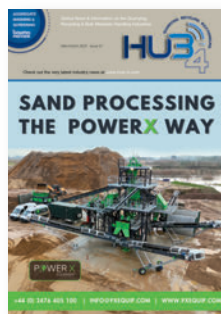
**METAL RECYCLING IN THE UK.**

**QUARRYING** - Open topics for this issue

**BULK HANDLING** - Open topics for this issue



Editorial copy deadline – 16th May 2025 Advert copy deadline – 23rd May 2025



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**Published six times a year.**



# PowerX supply an Advanced Sand Classification Plant for Sandsfield at Brandesburton Quarry

**PowerX Equipment Ltd has introduced a specialized sand processing plant at Sandsfield Gravel Company's Brandesburton facility, featuring an innovative system that effectively addresses one of the sand industry's most challenging quality control issues. The installation represents a significant advancement in sand processing, combining efficient organics removal and fine sand reclamation.**

Mark Mewburn, the owner of Sandsfield states that, "We are a family business established in 1964, based in Driffield and are excited to be back processing sand and gravel after a period of diversification. Our aim is to supply the local market with quality products, also utilising in house material to supply our concrete plants in Beverley Hull and York. PowerX, listened to our exact requirements and delivered."

The plant processes up to eighty tons per hour of feed material through a carefully engineered system that prioritizes the quality of the sand, whilst maintaining the required production rates. At its heart is a 1.6mØ TAK classifier, utilizing sophisticated upward current technology to remove lightweight particles, particularly lignite, from the sand fraction. This advanced classification system ensures the final products meet stringent market requirements.



"Sand is a very precious resource so selecting the correct equipment is crucial, so that modern market specifications can be achieved, whilst ensuring maximum sand retention in the saleable product," explains John Collins, Technical Director at PowerX Equipment. "Our system ensures consistent quality while maintaining the required production rate of 60 tons per hour for the 0-4mm sand. PowerX have previously supplied sand systems handling in excess of 200tph, with regards to organics removal. This balance of quality and productivity is essential in today's competitive market."

The process begins at the 7.5m³ feed hopper which has a variable speed belt drive ensuring a consistent material flow to the processing plant. The feed conveyor, which is fitted with a belt weigher, sends the material to a robust 4m x 1.5m triple-deck rinsing screen. This initial screening stage splits the aggregate into 10mm, 20mm and +20mm as well as sending the sand to the classifier. All screen decks are fitted with polyurethane media and have magnetic polyurethane protection.



The TAK classifier, the cornerstone of the sand plant, employs precisely controlled upward current technology to specifically, if required size the sand and effectively, if required remove any organics. The system's efficiency is enhanced by an automatic discharge valve with automatic discharge control, ensuring optimal separation without manual intervention. The internally rubber-lined construction of the classifier ensures

durability while maintaining separation efficiency.





# Aggregate Washing Cover Story

Both sand products are dewatered on a single split 2.4m x 1.2m dewatering screen powered by dual vibratory motors. The fine sand being sized once passing through a vibratory sieve bend. This specialized configuration allows separate handling of clean 0-4mm sand with a and fine sand, maximizing the valuable concrete sand product, whilst maintaining the quality standards achieved. The fine sand plant cuts at circa 40µm and has 2 x 325mmØ Hydrocyclones which greatly reduce the amount of silt going to the lagoon system, which is of limited size. The concrete sand is processed by a 500mmØ Hydrocyclone.

The entire operation is monitored and controlled through a sophisticated PLC system with HMI interface, housed in a climate-controlled 20ft container. This automation ensures consistent lignite removal performance while allowing operators to fine-tune parameters for optimal results across varying feed conditions.

The plant produces five distinct products: clean 0-4mm sand, fine sand, 10mm, 20mm, and +20mm aggregates. Product stockpiling is managed via a network of conveyors, including three 12m static channel frame units and a radial driven conveyor, all featuring tungsten-tipped scrapers and external tracking adjustment, reducing maintenance time.

PowerX Equipment's commitment to quality extends beyond the installation phase. The company provides comprehensive



operator training focused on maximizing the efficiency of the system and maintaining optimal production rates. This is supported by a nationwide network of fifteen service vans and qualified, specialist engineers, ensuring reliable operational support throughout the plant's lifetime.

The installation at Brandesburton Quarry demonstrates how modern technology can effectively address ensure sand quality challenges. PowerX Equipment's BSI-accredited status (ISO 45001, 14001 & 9001) underscores their commitment to quality and operational excellence in aggregate processing solutions.

Contact PowerX Equipment at 02476 405100 for detailed information about any sand processing, washing plants, in particular, C&D waste, scalping's, crushed rock fines, trommel fines, or general sand & gravel to arrange a site visit to see the technology in action.





# Maximum efficiency from A to B.

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MR 100 NEO



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# Agile screening combined with versatility and intelligence

**The TANA Raven X550T disc screen is a highly requested addition to the TANA recycling machine portfolio. The TANA Raven combines robust design with intelligent functionality, delivering exceptional results in a wide range of waste processing applications. Designed entirely in-house, the new disc screen incorporates several patented smart solutions.**

"We wanted to make the Raven disc screen versatile, cost-effective, and user-friendly. A key feature of our disc screen is its modular screening table, which allows for quick adjustments to the desired particle size. This also facilitates service," says Eetu Tuovinen, Product Manager, Recycling.



## Modularity & efficiency

The TANA Raven X550T disc screen, by default, separates material into two fractions - oversize and undersize - but can be equipped with an optional three-fraction screening package for finer separation. This versatility is enabled by Tana's patented modular screening table, which consists of four interchangeable modules, allowing quick adjustments to achieve different particle sizes. For instance, the first quarter

of the table can separate fines under 20 mm, while the rest screens medium fractions between 20–100 mm, with larger materials classified as oversized. The modular design also allows future modifications, and the development of new particle size options based on customer needs.

The discs are efficiently and precisely manufactured by injection molding, this offers a simple, quiet, durable and cost-efficient design. The smart anti-wrapping design also eliminates the need for separate anti-wrapping systems, making spares and wears simpler and more affordable for our customers. Additionally, the discs weigh up to 75% less than steel discs, enhancing efficiency. The unique design of the screen discs is also patent protected.

"The smart TANA Control System (TCS) detects jams and can reverse the machine when needed.

The system also allows users to store different programs for processing various materials," Tuovinen explains.

The TANA shredder and disc screen form an ideal pair, as they can process the same waste types at the same speed. Like its namesake in the animal kingdom, the TANA Raven is highly adaptable and intelligent. The disc screen efficiently handles various types of waste with high capacity, particularly MSW, C&D, and waste wood. The disc screen also features a large hopper, with easy feeding with a wheel loader or a material handler, which allows the screen to be used as a standalone machine. First, we will launch the Stage V diesel engine version which also offers an optional electric screening feature.

## TanaConnect® Portal

A remote monitoring system has been available on all TANA machines for over ten years. Now, it has been further developed into the TanaConnect® portal, offering new features and an even more user-friendly interface. This fleet management system collects, analyzes, and presents machine data to streamline operations, boost team motivation, and enhance productivity. TanaConnect® is also included in the TANA Raven disc screen.

A live machine overview provides detailed insights into machine condition and performance.

Information from the TanaConnect® portal can also be integrated with other systems, such as maintenance management, production management, or ERP systems via the TanaConnect® API.

The digital portal enables real-time fleet management, keeping users consistently up to date with key information, including:

- Machine health information
- Production reports
- Machine alarms
- Machine events
- Machine service information
- TANA documents

TANA Services - including Service Kits, TanaConnect®, and a comprehensive global dealer and service network - help ensure maximum machine availability worldwide.



# S. Norton Group host a tour of their latest investment in Lindemann state-of-the-art shredder technology

**S. Norton Group hosted a tour of its latest £20m investment in state-of-the-art shredder technology for 17 senior leaders in the European metals recycling industry to showcase its success in boosting operational and energy-saving efficiencies.**

Their Manchester-based flagship facility for the February visit by CEOs from some of Europe and North America's largest metal recycling companies was chosen by manufacturer Lindemann to highlight the installation's innovative approach to processing waste metals.

The 3000hp Lindemann shredder is one of the most efficient in the world. Its sophisticated variable speed drive system, combined with a pre-shredder and shredder drive assistant, gives best-in-class energy efficiencies. Early tests indicate that it requires up to 20% less energy than a 3000hp shredder with a standard drive train and compared with the previous installation at Manchester, the new shredder delivers around 50% greater throughput.



Leaders in innovative recycling and a global exporter, S. Norton Group made the major upgrade to increase their capacity to shred waste metals, mostly light iron and end-of-life vehicles (ELV), and produce higher quality ferrous and non-ferrous scrap metals. As the only shredder in the Greater

Manchester area, the new facility serves the whole region for processing and recycling waste metals.

S. Norton Managing Director, Tony Hayer said: "We were delighted to host this valuable opportunity for senior leaders in the industry to see our technologically advanced shredder and understand how it is able to produce high quality shredded material, liberating more metal than older, less efficient models.

"The shredder was custom-built to replace an ageing asset and is an integral part of our plans for growth and ongoing investment in operational quality and capacity at all our six UK sites, including Liverpool. We acquired a new site in Glasgow in December 2023 and another site in Birmingham is currently under development."

The installation was managed by Group Capital Projects Manager, Dave Hobson who praised the extensive design, building and commissioning collaboration between S. Norton and Lindemann engineers.

He said: "Utilising the very latest and innovative technology options, this world class shredder installation sets the business up for the future. It wouldn't have been possible without the hard work and dedication of everyone involved."



Carl Gustaf Göransson, Lindemann CEO said: "The event held in Manchester served as a valuable forum for collaboration and innovation between us and our customers. It was a highlight to be able to showcase the first-rate installation of our best-in-class shredder machinery. Feedback from attendees was excellent and they valued the opportunity to see and discuss S. Norton's shredder operation first-hand."

S. Norton Group recycles a variety of ferrous and non-ferrous scrap metals, such as aluminium, copper, iron and steel. Metals recycling protects the environment by reusing materials already in existence and saves energy. EU figures indicate that using recycled raw materials, including metals, cuts CO2 emissions by some 200 million tonnes every year.

Using recycled steel to make new steel enables a reduction of 75% in air pollution, 40% in water use and 76% in water pollution. The estimated energy saved by using recycled metals is 95% for aluminium, 85% for copper and 70% for iron and steel.



# Bunting develops high-intensity Electromagnetic Dry Filter

**Bunting has developed a new Electromagnetic Dry Filter to remove free fine iron from powders. The high-intensity magnetic separator generates ultra-strong magnetic fields to capture ferrous particles present in difficult-to-process fine materials. The new technology enhances magnetic separation in a diverse range of applications found in mineral processing, chemical and pharmaceutical production, ceramics, and recycling.**



**Figure 1 - Electromagnetic Dry Filter**

The Electromagnetic Dry Filter features a centrally-located vibrating canister inside a specially designed electromagnetic coil. The coil generates between 3,500 and 5,000 gauss in the canister, which is then concentrated on the points of the matrix to reach peaks of up to 12,000 gauss.

In operation, fine powder flows under gravity through the vibrating canister which is packed with magnetic stainless-steel matrix. Magnetic particles are attracted to the magnetically induced matrix and held until the batch feed is stopped. The electromagnet is then turned off, releasing the magnetic particles into a separate waste collection area, before processing is resumed.



**Figure 2 - A cross-section of the Electromagnetic Dry Filter**

The ultra-high magnetic fields and multiple magnetic capture points on the matrix enable enhanced separation of magnetically susceptible particles. The separation efficiency is far higher than permanent magnetic separators utilising permanent neodymium rare earth tube magnets. Many rare earth magnetic separators experience difficulties with bridging, ratholing and poor flowability due to particle size and shape, electrostatic charges, and environmental factors such as humidity.

The Electromagnetic Dry Filter is particularly suited for the magnetic particle purification of high-value fine powders, especially when processed and produced in controlled batches.

The process times and integration of the Electromagnetic Dry Filter into a production line is conducted through a separate control featuring a Siemens S7-1200 PLC and Human Machine Interface (HMI) control. To simplify maintenance and reduce production downtime, the Electromagnetic Dry Filter is fitted with a built-in jig crane to remove the centrally located matrix canister for inspection or cleaning.

"The development of the Electromagnetic Dry Filter has been customer driven," explained Adrian Coleman, Bunting's Technical Director. "Processing powders is often challenging due to the way in which the materials behave. Our design engineers considered these challenges when designing the Electromagnetic Dry Filter, focusing on good powder flow, whilst maximising magnetic separation."



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# bauma

## World-leading trade fair as a driving force for the industry

- **More than 3,500 exhibitors from 57 countries**
- **614,000 square meters of exhibition space**
- **Strong growth from Asia**

The countdown is on: bauma, the world's leading trade fair for construction machinery, building material machines, mining machines, construction vehicles and construction equipment, will start in Munich in a few weeks' time. From 7 to 13 April, more than 3,500 exhibitors from 57 countries will be presenting their latest machines, technologies and innovations on a total of 614,000 square meters of exhibition space.

### Noticeable increase in international participation

Demand for exhibition space also remains high in 2025, and bauma is once again fully booked. There has been a noticeable increase in international participation, primarily from Asia, specifically from India, Japan, China, Taiwan and Korea.

### Europe also well represented

Europe does, however, also remain present with a strong presence. Italy is the second largest exhibitor group after Germany, Turkey is the fourth largest. The number of exhibitors from Switzerland, Belgium, the Netherlands and Portugal has also grown. Companies from Argentina and the Philippines will be taking part for the first time.

Stefan Rummel, CEO of Messe München, emphasizes: "The persistently high level of interest in bauma underscores its global significance. bauma is and remains the heartbeat of the industry and will continue to provide important impetus even in the challenging market environment of 2025."







**Profitable and sustainable crushing & screening equipment at Bauma**

## Invest smart in Kestrack track mobile aggregates, recycling and mining processing equipment

Kestrack-2nd generation: Both sons, (left to right) Frederik and Peter Hoogendoorn run the family business.

World's biggest construction tradeshow, Bauma, is about to open its doors from April 7th until April 13th, in Munich, Germany. Bauma's and Kestrack's focus is on sustainability, alternative drive systems and providing solutions for the aggregates, recycling and mining industry.

Kestrack will be at booth FN 1016/9 and will launch 2 completely new machines at Bauma.



### R2 impactor, in full electric ZERO, and conventional diesel/hydraulic drive

The R2, high performing and very compact track mobile impact crusher, has been designed to complete Kestrack's product range of impactors. The R2 is easy to operate within city centres where high flexibility and mobility are essential. In a lot of European cities there is a need for pure electric plug-in construction equipment. With the ZERO-drive, a full electric plug-in drive version, without any combustion engine onboard, Kestrack provides the ideal solution. The new impactor has a capacity up to 150 t/h.

The crusher design features are often similar to the award winning bigger R3 impactor. The hopper (3m<sup>3</sup>) with integrated vibrating feeder (3300 x 810mm) and pre-screen (1250 x 810mm) also has a asymmetric design to feed the material easy into the inlet (860 x 730mm) which is equipped with a replaceable entry beam.

The newly designed rotor, with a width of 840 mm and a diameter of 920 mm, is made of Hardox steel. The rotor has the same design concept as the bigger R3, R5 and R6, designed to minimize wear. Rotor speed can be adjusted by a hydrostatic drive to finetune the desired grain size. The impact aprons can be serviced from the top which facilitates service maintenance.

The R2 impactor, fully equipped in closed circuit with a 1200 x 3040mm single deck after screen, magnet separator and windsifter has a total weight under 27t and a transport length of 13,05m, making it a very agile impactor. The return

conveyor of the closed circuit can also swivel outside to be used as a stockpile conveyor for oversize.

As on all Kestrack equipment, maintenance has been reduced by design, using drive and return drums which are greased for life, is just one of the examples.

The diesel/hydraulic R2 version is driven by the new DEUTZ TCD 5.2 L4 engine, which is very efficient, powerful and clean. It applies to all EU Stage V and US EPA Tier 4 and is able to run on ecological biodiesel. The R2 is also available in ZERO drive version, which is full electric plug-in and has no combustion engine.

### C7 3-deck high-capacity classifier

Kestrack will also introduce the brand-new high-capacity 3-deck classifier to complete the product range for high capacity precision screening. The C7, with a capacity up to 600 t/h, is equipped with a triple deck screen box of 5450 x 1800mm with interchangeable screen meshes, which can be changed quickly. The C7 is specifically designed for accurate and high-capacity precision screening for sand and aggregates. The walkways on each side of the screen box give perfect service and maintenance access. The C7 has no support legs, resulting in quick set up times.



The C7 3-deck classifier is available in conventional diesel/hydraulic drive, but Kestrack's R&D department already mention their plans to make it available in ZERO, full electric plug-in drive, in near future. Also, the 2-deck version is foreseen to come to market soon.

### P3 twin shaft shredder

Kestrack, recently added the first tracked shredder, the P3, to its product range. This compact twin-shaft shredder is equipped with 2 heavy duty axles that can easily be changed



within the hour. In different setups, the shredder can be used for various applications such as construction waste, mineral waste, biomass, green waste, logs and roots, waste wood, industrial & household waste, plastics, light metal waste, tires etc.

The 14,5t Keestrack P3 tracked mobile shredder features a tillable loading platform to feed the shredder. The shredder has a feed opening of 1589 x 1200 mm and a shaft diameter of 700 mm. The torque of 90,000 Nm per shaft provides a massive power of 180,000 Nm. The shaft speeds are 45 and 25 rpm, and the rotation varies according to the program selected. The shredder features an automatic release system by reversing the direction of rotation.

The P3 is available with options such as a magnetic separator, to separate precious metals, remote control, after screen, working lights and a fuel pump.

As expected, the P3 provides easy access for service, maintenance and repairs. The engine compartment is very accessible, with the new very efficient, powerful and clean DEUTZ TCD 5.2 L4 engine. It applies to all EU Stage V and US EPA Tier 4 and is able to run on ecological biodiesel.

### B5 heavy duty jaw crusher

Keestrack's B5, available in 3-drive versions: conventional diesel/hydraulic, hybrid plug-in and ZERO full electric-drive, is a compact heavy duty jaw crusher used for primary crushing in quarrying and mining applications. The hopper (5m<sup>3</sup>) with heavy duty folding hopper walls with hydraulic locking system, is easy to load by excavator and wheel loader. The vibrating feeder (2300 x 1000mm) automatically adjusts the feeding material to the crusher to ensure the load capacity of the jaw crusher is optimal (80%). The long independent 2-deck pre-screen (2300 x 1000mm) ensures a high crushing capacity while reducing wear of the crusher. The pre-screened fraction(s) can go through the crusher bypass or can be separately stockpiled by the optional side conveyor.

### Keestrack-B5e:

The B5 jaw crusher in the full electric drive version, without the detachable engine / gen-set unit



The jaw crusher has a feed opening of 1110 x 750mm and a feed size up to 600mm. The stroke of the swing jaw can be adjusted for hard stone or recycling applications. To remove blockages the jaw movement is reversed.

The Closed Side Setting (C.S.S.) is from 45 to 180mm, even on worn jaws. The hydraulic gap settings can be changed via a wedge system. During operation the automatic wear recovery is active every 50 working hours, which guarantees a consistent quality of your end-product. The wear recovery can also be set manually, if needed.

Maintenance and repairs are facilitated by the design of the B5 through accessible walkways and doors and panels on all sides of the machine. Also, the hydraulic sliding frame ensures good service access under the feeder and scalping unit. The jaw crusher has 3-piece cheek plates which make replacements easier. Replacement of the jaws is fairly simple due to the easy accessible jaw plate top locking system.

The B5 is equipped with a Drop off engine/gen-set compartment like many other Keestrack crushers. The engine can be placed besides the machine in less dusty and vibrant conditions. Maintenance is much easier when having the compartment placed at ground level.

### Keestrack-P3:

The P3 twin shaft shredder, available with several shafts depending on application





# Elite Precast Concrete make bay-building easy

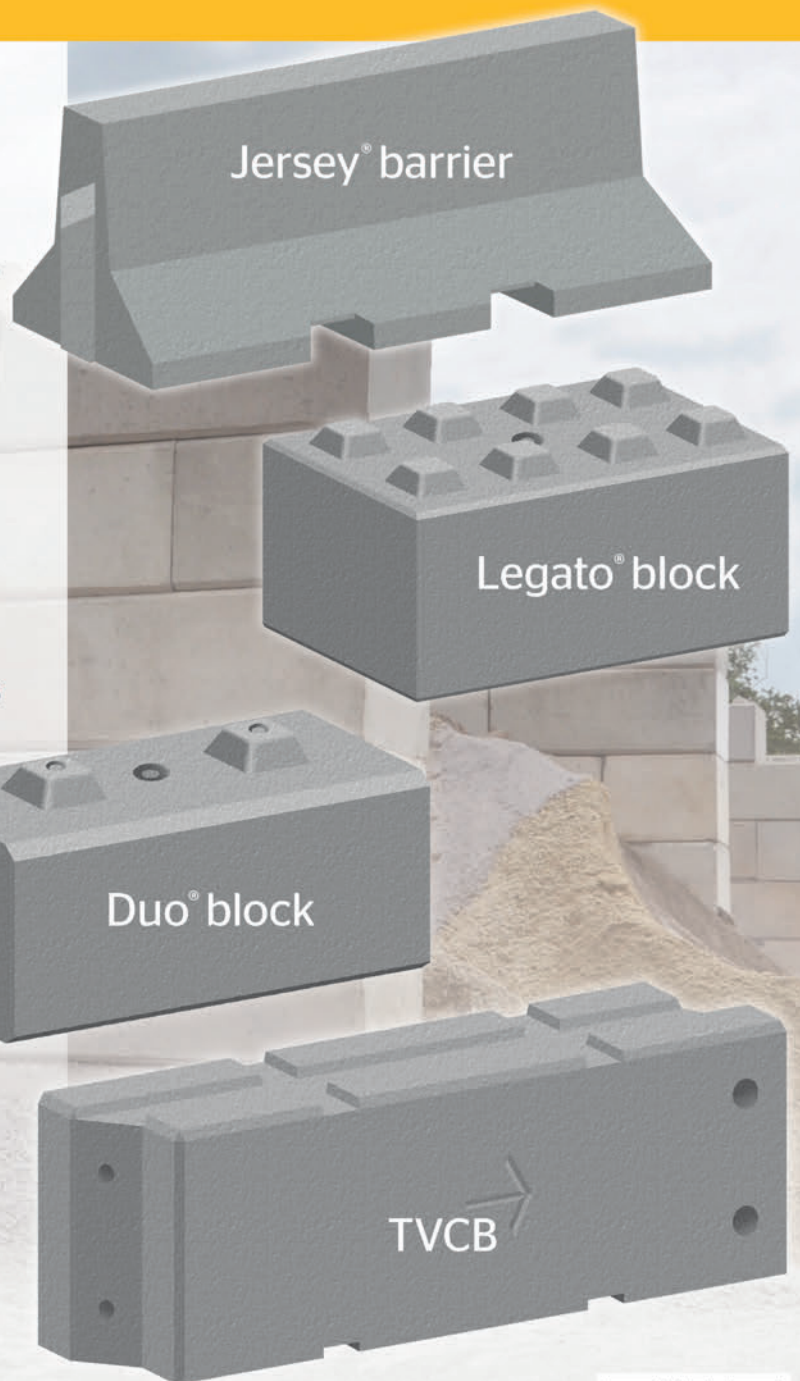
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# Triangle Tyre displays OTR improved product portfolio and new TPMS at Bauma 2025

## Triangle Tyre returns to Bauma 2025 with an expanded OTR portfolio and new TPMS launch

Following a successful presence in 2022, Triangle Tyre is set to return to Bauma 2025, reaffirming its status as a global leader in Off the Road (OTR) tire solutions. The renowned Chinese manufacturer will present its comprehensive product portfolio at Hall A6, Stand 39 in Munich, Germany, from 7 to 13 April.



### Expanding Presence in Europe

Triangle remains committed to strengthening its position in Europe by further developing its product range to meet the demands of both original equipment (OE) and replacement markets. The company provides high-quality tires underpinned by continuous technical advancements, training programmes and application support, ensuring superior performance for customers worldwide.

### Comprehensive OTR tire range

Triangle Tyre offers an extensive range of OTR tires with rims up to 63 inches and load capacity ratings from 1 to 4 stars. Designed to support the most demanding quarrying and mining operations, Triangle's solutions include tires for wheeled loaders, articulated dump trucks (ADTs), and rigid dump trucks (RDTs), operating in both surface and underground environments.

### Key Exhibits at Bauma 2025

As the world's premier showcase for off-highway machinery and related technologies, Bauma provides an ideal platform for Triangle to present its portfolio. This year, the company will exhibit three flagship OTR products and introduce its new Tyre Performance Monitoring System (TPMS).

#### • Crane Tire: 445/95R25 TB576 174F E2

Developed for mobile cranes, this tire features a lightweight construction that enhances fuel efficiency and operational effectiveness.

#### • Wheel Loader Tire: 29.5R25 3-Star Rating TL559S+ L5

Designed for wheel loaders operating in both surface and underground mines, this three-star rated tire accommodates heavier loads than its two-star counterpart, offering superior impact resistance, enhanced wear performance, and maximum load capacity. With deep, robust treads, the TL559S+ is ideal for severe industrial and recycling applications, reinforcing Triangle's leadership in this segment.

#### • RDT Tire: 27.00R49 TB599A \*\* E4

A benchmark in the rigid dump truck category, this 49-inch tire, with a diameter of 2.7 metres, is specifically designed for the most challenging quarry and mining conditions. Combining exceptional durability with outstanding reliability, the TB599A E4 has become the preferred choice for major mining operators worldwide.

### Introducing Triangle's Tyre Performance Monitoring System (TPMS)

Triangle Tyre is also set to launch its advanced TPMS at Bauma 2025, highlighting its dedication to safety and efficiency in off-road applications. This innovative system has been specifically engineered for giant OTR tires, delivering real-time tire tracking and monitoring to enhance site safety and minimise unplanned downtime. As tire pressure plays a critical role in optimising performance and profitability in quarry and mining operations, the Triangle TPMS will set a new industry benchmark for tire management solutions.

### A Commitment to Innovation and Excellence

By showcasing pioneering tyre technologies and reinforcing its global presence, Triangle Tyre continues to push the boundaries of innovation in the OTR sector. As demand for durable and high-performance

off-road solutions grows, Triangle remains dedicated to delivering robust and efficient tire solutions that meet the evolving needs of industries worldwide.

Join Triangle Tyre at Bauma 2025 and discover how its latest advancements are shaping the future of off-road tire technology.





# Liebherr on show at bauma 2025; the new PR 776 Generation 8 Crawler Dozer



- The Liebherr PR 776 Generation 8 (G8) Crawler Dozer sets new standards in efficiency due to the proven hydrostatic drive.
- Using Liebherr Connect, the 70-tonne PR 776 G8 can also be controlled remotely via teleoperation with the Liebherr Remote Control (LiReCon). This enables a further increase in safety, efficiency and operating comfort.

**At Bauma 2025, Liebherr is presenting its flagship mining dozer, the eighth generation PR 776 Crawler Dozer, fully equipped for the demands of mining and quarrying operations. Together with the new PR 766 G8 and the smaller PR 756 G8 launched at the beginning of 2021, Liebherr is expanding its comprehensive range of state-of-the-art mining dozers.**

Munich (Germany), February 18, 2025 – With an average fuel consumption of 38 litres per hour, Liebherr is setting new standards for cost-effective materials handling in the mining sector with its flagship, the eighth generation PR 776 Crawler Dozer. The new assistance systems, now available for these machines, improve efficient and user-friendly operation.

## **Liebherr OAS - Operator Assistance Systems**

The new 70-tonne PR 776 Generation 8 is now equipped with advanced Operator Assistance Systems (OAS), which were previously only available on smaller models. The Assistance Systems offer two levels of driver support: Free Grade for active Blade Stabilisation during fine grading and Definition Grade for automatic blade positioning when creating 2D graded surfaces. With the new Auto Blade Pitch Assistance System, the driver can save and then call up three blade positions at the touch of a button. Position 1 offers perfect penetration characteristics, position 2 allows optimum material transport and position 3 facilitates quick emptying of the blade at the end of the dozer push section. The advanced Operator Assistance Systems of the PR 776 G8 not only increase efficiency and operating comfort, they also raise productivity.



### Reliability: tough components produced in-house

For decades, Liebherr diesel engines have proven themselves world-wide in construction machinery. Developed for the harshest operating conditions, their robust build and state-of-art technology assure maximum operational safety and long service life. Liebherr's well-known hydrostatic drive system eliminates high-wear components, such as gearboxes, steering clutches or service brakes. The high-quality hydraulic pumps and motors operate almost entirely without mechanical wear and offer exceptional reliability. Liebherr offers for its Crawler Dozers a wide range of factory-fitted, field-tested equipment packages for various ambient temperatures - from desert operation to extreme cold conditions.

### Easy maintenance

Optimum access for servicing and extended maintenance intervals are the main features of the PR 776 from Liebherr. Centralised maintenance points, wide-opening access hatches and engine compartment doors, a standard tilting driver's cab and an optional cooling fan that can be swung out for cleaning, facilitate quick maintenance access and easy servicing for the new Crawler Dozer. The new eighth generation Crawler Dozer is also noted for the particularly long change intervals for hydraulic fluid and engine oil. When using Liebherr Plus oils, these intervals, depending on application and with regular checks, can extend up to 8,000 operating hours.

### Maximum driver comfort - as standard

Liebherr mining dozers offer first-class cabin comfort. Drivers appreciate the comfort and ease of operation using a single joystick for all driving and steering movements. Safety has also been increased due to the unrestricted 360-degree all-round view of the blade and ripper, afforded by large panoramic windows and the integrated ROPS/FOPS grille in the cabin structure.

### Future-proof with the Liebherr LiReCon teleoperation system

In a working environment that places high demands on man and machine, the Liebherr Remote Control System (LiReCon) increases safety, comfort and productivity. The system is suitable for all applications of Crawler Dozers. It consists of the Liebherr Remote Control teleoperation stand. This includes a state-of-the-art operator station, together with all the necessary switching elements and on-board installations on the Crawler Dozer, such as, various cameras with different angles and views, microphones for recording machine noise, and radio receivers and transmitters.

LiReCon facilitates quick end-of-shift changeover between operators and consequently reduces idle and downtime. As the operator is no longer tied to the machine, it allows customers to extend operation to new mining areas in hazardous zones, thus expanding the application scope for Liebherr Mining Crawler Dozers.



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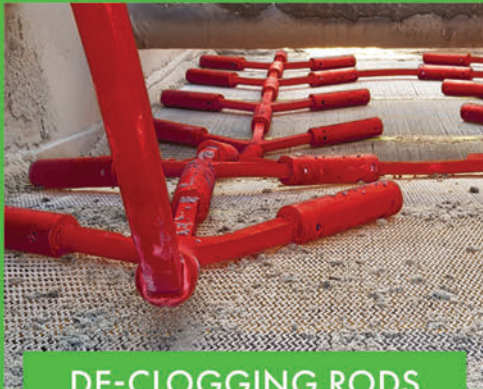
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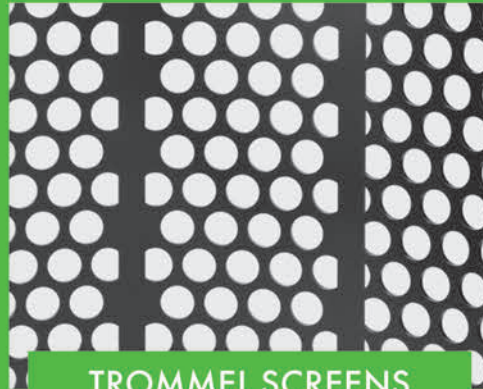


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# Sustainable Innovation and Automation take centre stage at Bauma 2025

**From zero-emissions to automation, CASE unveils cutting-edge technologies that prioritize efficiency, safety, and sustainability...**

CASE Construction Equipment is returning to Bauma, the world's leading trade fair for construction equipment machinery, as a finalist in both the Digital and the Mechanical Engineering categories of the Bauma Innovation Awards. The company will present a wide range of advanced solutions, with a focus on alternative fuels, automation and connectivity. CASE will demonstrate its comprehensive range of equipment, designed to meet the evolving needs of operators and fleet managers across Europe.



The 'Let's Drive the Future' concept embodies CASE's commitment to addressing the challenges our customers face in a sector impacted by new regulations and by a shortage of skilled operators,» said Fabrizio Cepollina, Head of CNH CE EMEA.

Our goal is to offer solutions that integrate new fuel technologies and automation to enhance productivity and efficiency.»

CASE's extensive stand at Bauma will focus on new wheel loaders, mini excavators, backhoe loaders, crawler excavators and an expanding offer of electric models. These machines, designed for applications ranging from urban construction to waste management, quarrying, and road construction, are engineered to deliver operational efficiency, minimised operating costs and reduced environmental impact—all in line with rapidly changing market demands.

In addition, CASE will showcase two customised machines, examples of its new Special Application Division that is housed within the Sampierana R&D Department.



A key highlight of the stand will be the introduction of advanced driver assistance systems for CASE wheel loaders. These are designed to enhance safety, efficiency and productivity on the job site. The new systems

include enhanced visibility, obstacle and hazard perception, AI-based driving assistance and semi to fully-autonomous loader operations.

The CASE Smart Loader Assist AI Technology is a finalist in the Digital category of the Bauma Innovation Awards, while the Impact remote-controlled electric loader is a finalist in the Mechanical Engineering category.

Zero emission electric models will be central to the CASE display at Bauma. Electric machines provide environmentally responsible solutions with numerous advantages, including lower energy consumption, quieter operation and reduced maintenance costs.

To further support safety and productivity, CASE will introduce advanced remote monitoring technology, providing remote machine assistance. This technology enables real-time monitoring of operational conditions and fuel consumption and facilitates predictive maintenance, ultimately reducing downtime and improving fleet management.

CNH Capital, which supports CNH brands, dealers and customers with a suite of financial products, will use Bauma to highlight an extremely flexible financing solution, designed to help owners maximise their investments. CNH Capital prioritises finding the right financial product for each customer's needs, offering adaptable solutions to meet diverse business requirements.

These comprehensive, 360-degree solutions are designed to maximize customer productivity, added Cepollina. By visiting CASE at Bauma, attendees will experience these innovations firsthand.

**CASE**





## Volvo CE electrifies bauma 2025 with first-ever zero-emission-only lineup

**Volvo CE is set to make history at bauma 2025 (April 7-13) with the unveiling of its first-ever zero-emission-only lineup. This groundbreaking showcase will feature an exclusive all-electric range and marks a significant milestone in Volvo CE's commitment to sustainable innovation.**

The platform will also include a worldwide first launch of a new Volvo zero-emission machine, designed for key industrial segments in the construction industry. Volvo CE also provides conventional diesel options of all zero-emission models on show that deliver industry-leading fuel efficiency improvements of up to 15%, offering customers the choice of technology that meets their needs wherever they are on their transformation journey. An interactive Solutions Bar will provide the ideal environment for customers to focus on tailored, data-driven advice and business solutions to unlock new levels of productivity, efficiency, and sustainability.

Visitors to bauma 2025 will have the unique opportunity to experience Volvo CE's all-electric lineup, which exemplifies the company's dedication to reducing environmental impact while maintaining superior customer performance. This exclusive range, including recently launched models of excavators and loaders is designed to meet the diverse needs of the construction industry, offering cutting-edge technology and efficiency. The show will also see the worldwide, never-before-seen launch of a brand-new Volvo zero-emission machine designed for use in key industrial segments in the construction industry.

### **Comparable conventional technology of all models offering industry-leading fuel efficiency**

In addition to its zero-emission lineup, Volvo CE will also illustrate that conventional diesel options are available to customers for all zero-emission models on display. These models are engineered to deliver industry-leading fuel efficiency, with improvements of up to 15%, and exceptional productivity. This multi-technology approach ensures that Volvo CE continues to provide versatile solutions that cater to a wide array of customer requirements, wherever they are in their transformation journey. The showcase at bauma 2025 represents Volvo CE's most extensive product portfolio overhaul in decades. With over 35% of its range renewed in

the past 12 months, Volvo CE is setting the stage for the future of construction equipment.

Melker Jernberg, President of Volvo CE, said:

"We are at a critical moment in our industry's transformation. With our biggest launch ever, featuring a range of versatile technologies, we are prepared to offer industry-leading products, services, and solutions to assist customers at any stage of their transformation journey. We stand firm in our commitments to innovation, sustainability and leadership in the industry."

### **Solutions for increasing customer productivity**

At the heart of this experience will be a new interactive Solutions Bar, demonstrating Volvo CE's commitment to being a total solutions provider. It will focus on tailored, data-driven advice and business solutions for customers to unlock new levels of productivity, efficiency, and sustainability. Whether it's reducing carbon emissions, maximizing capacity, boosting profitability, or achieving all these goals simultaneously, Volvo's experts are there to deliver practical, actionable solutions, through a combination of advanced machines, integrated services, and flexible financial offering.

Volvo CE, along with fellow Volvo Group companies Volvo Trucks, Volvo Financial Services and German retail partners, invites attendees to visit their stand at bauma from April 7-13, 2025. They are also invited to join its press conference with Volvo CE CEO Melker Jernberg on 8 April at 10am CET, on the Volvo Group stand.

This event offers an opportunity to explore the future of construction equipment and discover possibilities for a more sustainable and efficient industry.





# Bauma 2025

Munich, 7 – 13 April

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# Unrivalled Materials Wet Processing Solutions

**Parnaby Cyclones can offer a wide range of aggregates washing system with both modular and mobile solutions available**

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Parnaby Cyclones offers a distinctive approach to density separation systems through our natural medium barrels and horizontal-style natural medium cyclones. These systems deliver exceptional efficiency in removing organics, making them ideally suited for processing the range of recycled materials listed earlier. All of the systems mentioned above feature fully closed-circuit wastewater treatment, incorporating a high-rate modular thickener/clarifier, Parnaby's proprietary Heavy Duty Multi-Roll Filter Press, or Plate Press Filter (available in both overhead beam and sidebar designs).

The aerial photo showcases our recently completed modular recycled aggregates washing system, designed and installed for our esteemed client, Wm Hamilton & Sons Ltd., in Scotland. Parnaby Cyclones is proud to collaborate with the team at Wm Hamilton & Sons Ltd. This plant processes muck-away and road sweepings, utilizing the Parnaby Heavy Duty Log Washer/Coarse Material Washer, Horizontal Natural Medium Density Cyclones, a high-rate Thickener, and a Diemme overhead beam Plate Press. The system has a capacity of 80-100 TPH input.



**Parnaby Cyclones**

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# Develon to focus on new innovation in all its forms at Bauma

- On stand FM714/1 with 3748 m<sup>2</sup> of space, Develon will display over 20 machines
- A live demonstration show will run five times a day
- Under the slogan of 'Achieve the Next', Develon's Experience Zone will present new digital technologies and state-of-the-art machinery at Bauma
- New model launches will elevate, extend and expand current ranges from Develon



DEVELON, formerly Doosan Construction Equipment, will make its first appearance at the Bauma Fair from 7 to 13 April 2025 in Munich, Germany. The Develon stand is certain to make a big impact with an industry-leading display of new state-of-the-art machine and digital technology developments being seen for the first time in the world at Bauma 2025.

The Develon stand will reflect the key aspects of this year's Bauma and those of the global construction industry, from digitalization and sustainability; automation and alternative drive concepts to networked construction, reduced carbon

footprint and the circular economy. An innovative approach will flow throughout all areas of the stand to support Develon's quest for wider sustainability and to reduce carbon emissions, avoiding any negative impact on people and the environment, bringing together key elements such as:

- Autonomous Working
- Advanced Technologies
- Zero Emission/Alternative Drives
- Product Range Elevation/Extension/Expansion





### Vision for Autonomous Machinery

Develon will display its vision for Autonomous Machinery which has been an ongoing development stream at the company for years, starting with the Concept-X technology first seen globally in 2019. This progressed to Develon's Concept-X2, the much heralded remote control/autonomous cabless construction equipment solution first seen at Conexpo in 2023 and promoted globally by the company for the last two years. At Bauma, visitors will see 'Real X', the next level in Autonomous Working from the company. Real X allows the latest smart Develon crawler excavators to carry out a full suite of autonomous tasks including trenching, bulk earthwork and truck-loading.

Real X utilises Develon's expertise in AI-powered excavation and construction equipment technology to accelerate the development of safe, productive, sustainable and predictive autonomous excavation solutions. Real X technology is also flexible and allows the same excavator to be operated in autonomous mode, remote control mode or in normal joystick operation mode.

### Advanced Technologies

Develon continues to trailblaze - from pioneering the presentation in 2015 of All-Around View Monitoring, also known as AAVM, to Teleoperation in 2019, where the company successfully demonstrated the world's first 5G teleoperation, with a global reach from Munich to Seoul.

Now at Bauma 2025, visitors can see Smart Around View Monitoring (SAVM), which is a new system to improve safety when operating equipment which employs object detection technology based on AI. This function provides the operator with 360-degree view of the excavator, significantly enhancing the safety of any workers near the equipment.

Another of the Advanced Technology systems being shown at Bauma 2025 is a new version of the Transparent Bucket safety system unique to Develon. Owing to blind spots caused by the buckets on wheel loaders, the area in front of the machines has been considered an area of major concern in terms of safety. With the Develon transparent bucket function, however, the driver can easily check the blind spots in front of the bucket via the cab monitor, to increase safety and prevent accidents.



The new version of the system - Transparent Bucket 2.0 - has all of the functionality of the original system, but now offers Object Detection (OD) and Object Recognition. The OD function again uses AI technology to synthesize a red triangular exclamation mark in the centre of the object and display it on the monitor alerting the driver when an object is detected.

Experience Zone – The Experience Zone exhibit on the stand at Bauma is packed end to end with more new Advanced Technologies from Develon. The company will provide visitors with a guided tour of the Experience Zone, providing a fully digital experience to showcase future technologies and related innovations, safety and productivity and design with dedicated Develon experts on-hand to support. As well as the interactive displays, visitors have many photo opportunities and the ability to try out the Next Generation '9' model operator's cab in the Zone.



Other ground-breaking developments to be featured in the Experience Zone include Radar and E-Stop detection and ALA (Advanced Lift Assist) systems, all of which represent massive enhancements in site safety; PHM (Prognostics & Health Management) with the Uptime Center will show the status of construction equipment through the monitoring of components and oil with unique technologies; My Develon - a digital platform that leverages equipment and user data to offer service solutions for construction equipment throughout its life cycle.

## **Zero Emission/Alternative Drives**

### **Electric Excavators**

Along with the DX20ZE-7 (canopy) mini-excavator, which was the first mass-produced electric powered excavator manufactured by Develon will be another electric mini-excavator, the brand new DX23E-7. This model which is due to be launched later this year features a spacious cab and is powered by an in-house developed 32 kWh/40 kWh lithium ion battery pack option, with all electrical systems and components on the machine optimized for work in harsh environments. Both the DX20ZE-7 and DX23E-7 offer excellent solutions for companies working in sensitive areas where low noise or night time work is essential.

### **DX140WRE 100% battery-powered zero emission machine**

Develon will also display a BEV Zero-Emission 14 tonne Wheeled Excavator still in development, intended to be used for a high proportion of urban work as a first development target, and the plan is to build a line-up of various BEV products.

The DX140WRE is intended to be the world's first mass-produced medium-sized wheeled excavator that can work for more than 8 hours on a single charge, making it a perfect replacement for conventional internal combustion engine machines. It was designed to be able to perform a full day's work without any constraints (such as additional charging) after a single charge, and the appropriate battery capacity was selected and installed on the equipment to meet this purpose.

## **Product Range Elevation/Extension/Expansion**

### **New Next Generation '-9' Models**

Two new smart heavy crawler excavators will be revealed for the first time in Europe at a special

ceremony on the Develon stand. These Next Generation '-9' models combine ten ground-breaking technologies and will redefine and set new industry standards in productivity, safety and operator convenience.

### **Range Extension**

Develon will also launch a number of other new machines at Bauma to further extend the range of models and to update/improve existing models with new features. For example, a large area of the static display section is dedicated to Develon's new range of Special Application machines which will be shown for the first time at Bauma. This includes the new DX270WMH-7 (27.5 tonne) material handler designed to carry out the toughest tasks across a wide range of material sorting/handling applications.

The new DX235LCR-7 Car Dismantler designed to break down decommissioned vehicles is a 20 tonne plus crawler excavator with a specific attachment designed for maximum productivity. The machine is able to hold down dismantled vehicles while quickly breaking them apart to recycle the valuable materials they contain.

Another Special Application machine being shown for the first time is the new 22.5 tonne DX140RDM-7, the latest addition to the company's demolition excavator range. Like the three larger models from 31 to 71 tonne, the DX140RDM-7 offers multiple configurations, providing the customer with a range of solutions depending on the project to be completed.

### **Range Expansions**

Develon will also present several new models that extend current ranges and/or offer new advances and features. These include the new DX25Z-7 mini-excavator, which offers customers a new lower weight option in the range, providing a reduction in terms of operating and transport costs, in particular.

Develon will also show the new DX165W-7K and DX190W-7K models, demonstrating several new features and options for the company's wheeled excavator range. Similarly, the DL220-7 wheel loader is being shown to display new features and options for the company's award-winning DL-7 wheel loader range.





# Hyundai extends its reach with 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.





**SBM at BAUMA 2025**

# Innovation all along the line

The SBM vertical impact crusher (VSI) V8 can be easily integrated into existing production facilities. It produces high-quality sands and chippings from oversize grain.



**The Austrian company SBM Mineral Processing will be presenting itself at the upcoming BAUMA with a highly innovative mix of world premieres, new developments and proven technologies. The full-package supplier in the fields of mineral processing and concrete mixing technology is also recalling its beginnings 75 years ago. Like numerous subsequent milestones, these were also associated with a ground-breaking innovation.**



In 1950, Franz Wageneder, the owner of a gravel pit in Upper Austria, laid the foundation stone for the contemporary company SBM Mineral Processing GmbH with his revolutionary swivel-beam-mill. "We proudly bear the initials of the revolutionary impact mill technology in our name, and of course we will be celebrating '75 years SBM' in style at BAUMA," explains Erwin Schneller, Managing Director of the company, which currently has some 180 employees at its headquarters in Oberweis near Gmunden, Upper Austria. "In fact, we have paved the way for many new technologies, which in turn have had a significant influence on the developments in both the aggregates sector and the building materials industry. Already at an early stage we had developed mobile crushers and were also among the pioneers of track-mounted crushing plants as the basis for the modern recycling of building materials. The same applies to concrete mixing technology, where we continue to set standards in on-site production of high-quality concretes for construction projects with challenging requirements for various output capacities and the most demanding environmental conditions."

Numerous exhibits on a total of around 650 m<sup>2</sup> of hall and outdoor space will build the bridges to the present and the future in Munich: "The pioneering nature of our developments becomes particularly evident in mobile processing, where more diesel-electric crushing plants will celebrate their BAUMA premieres this year than ever before. SBM has been systematically focussing on efficient and environmentally friendly electric hybrid drives for over 40 years and now offers perfectly sophisticated systems in all power classes with its REMAX impact crushers and JAWMAX® jaw crushers. In turn, we utilise the control technology advantages for the intelligent automation of the production process - in around two years' time, we will further extend our lead in this area with the first 'autonomous crusher'."

The SBM portfolio continues to include the construction and modernisation of stationary gravel and ballast plants, concrete mixing plants and construction material recycling centres. "In this difficult market, which is currently characterised by a small number of major projects, we are relying above all on our lean and highly flexible structures as a medium-sized plant manufacturer." These include the 'SBM Technical Centre', an in-house rock laboratory for the precise design and reliable validation of the required equipment, short communication channels between development and construction, as well as a wide range of high-performance individual machines for mineral processing, and modular stationary solutions for concrete technology." Particularly for modernisations, but also for small to medium-sized new plants we score points with innovative and customised concepts that offer operators maximum cost efficiency and predictable security of the business location," says Erwin Schneller, outlining the ambitious objectives of SBM plant engineering, whose activities in the major Central European markets are managed centrally from the headquarters in Oberweis.

### Mobile mineral processing: Always in a class of its own

Even at its pre-series launch at the last BAUMA trade fair, nobody could get past it - the track-mounted large impact crusher REMAX 600, which is once again dominating the SBM mineral processing exhibition stand this year. Officially on the market for a good two years, the 600 t/h plant has been successfully placed in important regions and across all major industries according to SBM. In addition to the high performance of the class-leading 1400 impact crusher for



With a double-deck secondary screen, the JAWMAX 300 jaw crusher facilitates the highly efficient production of up to three final products on the construction site or in the quarry.

natural stones and recycling (feed size: 1000 mm), the economical sustainability in operation is particularly impressive: the fully hybrid plant with EU 5 engine and 520 kVa on-board generator consumes 30 to 50% less diesel in direct comparison to conventional diesel-hydraulic or only partially electrified large-scale plants. REMAX 600 finally becomes an environmentally friendly cost saver with the plug-in option for connection to external power generators or grids, which SBM will be demonstrating in Munich with a new plug system including a second mains switch that is easy and safe to operate.

And it does so with a mobility and flexibility that is unrivalled among large track-mounted plants: despite being fully equipped with an active double-deck primary screen, efficient longitudinal and cross discharge by magnetic separator, and up to three screening stages in the secondary screening unit with oversize grain recirculation, the plant REMAX 600 weighs less than 90 tons; as a 'one-piece' unit, it can easily be moved from one location to another and is ready for use there within a very short period of time without needing any additional auxiliary equipment. The intelligent SBM 'Crush Control' system supports the machine operator right from the



The large SBM impact crusher REMAX 600 will be presented at BAUMA with a highly efficient add-on single-deck screen and double magnetic equipment.



set-up stage - it then monitors the entire production process and uses a comprehensive sensor system to ensure trouble-free and smooth material flows of the plant.

This means that REMAX 600 is still the pre-stage of the 'autonomous crusher', whose development is on the home straight according to SBM and its research partners at the University of Leoben: Following the successful integration of special sensors to evaluate the final products, the company is currently working on optimising the also AI-supported visual real-time detection of the feed material. At the same time, SBM is also continuing to expand its global information networks, which will later connect each 'autonomous' crusher to the SBM headquarters via cloud-based data connections. There, a 'digital twin' of the plant will then in real time validate the settings made on site or optimise the crushing processes based on constantly growing reference data. The new technology is expected to be ready for the market by 2026 and will also be used in future generations of smaller mobile plants - in addition to the SBM flagship.

But even without AI, REMAX 600 still offers great potential: SBM will prove this in Munich with an especially developed add-on single-deck screen in a 6-metre version. In a closed cycle, it provides a particularly high yield of defined fine grain sizes. Examples include asphalt recycling with end products of 0/8 or 0/10 mm or corresponding aggregates in natural stones or concrete recycling. Two magnetic separators ensure purity and quality: a highly efficient electromagnetic separator with cross discharge above the main discharge conveyor and a permanent magnetic separator with longitudinal discharge at the screen transfer point.

#### Focus on the client

By presenting the JAWMAX® 300 with its double-deck secondary screening unit, SBM will once again demonstrate

its closeness to the market in Munich: Due to system-related lower wear costs and lower consumption figures, pressure crushing remains the technology of choice for many clients - albeit at the expense of reduced mobility at the construction site due to the additional screening equipment required. With a weight of less than 40 tons in 'one-piece transport' and the production of three final products in one pass, the powerful 300 t/h jaw crusher (inlet opening: 1000 x 600) now offers a flexible solution, e.g. for inner-city recycling or for the local processing of smaller raw material stockpiles or stored residual materials. If JAWMAX® 300 is used as a primary crusher only, the fully electric double-deck secondary screen (screen area: 1200 x 3000 mm) can be easily dismantled. Thanks to its modular design, it can also be used for the track-mounted impact crusher type REMAX 300 made by SBM.

With the reversible impact crusher SMR 13/7/4 and the vertical shaft impact crusher (VSI) V8, SBM will be presenting two individual machines in Munich that allow stationary plant operators to achieve higher added value through the production of high-quality chippings or sand from oversize aggregates in the course of new constructions or upgrades. The five SMR series (feed sizes: 150 mm/200 mm) can be used as secondary or tertiary crushers and impress in operation with a high proportion of cubic final products for the concrete and asphalt industry. The V8 vertical shaft impact crusher (VSI) is suited for the highly efficient production of sands and fine chippings. A patented inlet control ensures low-dust production in the full-load range with very high circumferential speeds of the rotor, whose design also guarantees a long service life.

**SBM Mineral Processing at BAUMA 2025:**  
Hall B2.249; courtyard B2/B3





# Kleemann | Extended screen portfolio and sustainable technologies for material processing for Bauma 2025

## World premiere MOBISCREEN MSS 1102 PRO

With its new mobile crushing and screening plants and its SPECTIVE operating concept, Kleemann is presenting innovations from its extensive product portfolio. The new scalping screen MOBISCREEN MSS 1102 PRO celebrates its world premiere.

### Kleemann extends its screening programme by a new PRO line plant

With the MOBISCREEN MSS 1102 PRO, Kleemann presents the first screening plant in the PRO line. The plant is mainly used in natural stone and can work as a stand-alone machine or intelligently interlinked with other crushing and screening plants. With a feed size of 880 x 550 x 330 mm and a feed capacity of up to 750 tons per hour, the plant extends the screening portfolio upward. The large range of screen surfaces and the simple setting of screening parameters make it possible to adapt the MSS 1102 PRO easily to new application conditions or feed material. If a fine end-product needs to be screened from very coarse feed material, the plant can be quickly converted from three to two final product sizes. Further advantages of the plant include its simple operability thanks to its intuitive control system, easy access to all relevant machine components and its drive concept H-DRIVE with the option of an external power supply for operation with zero local emissions and therefore environmentally friendly work.

### New in work site digitisation: SPECTIVE CONNECT CONTROL

The digital application SPECTIVE CONNECT supports users with construction site digitisation. All relevant process information and reporting are now displayed on your smartphone without you having to leave the feeding device. Different configuration and monitoring tools help you set the correct machine parameters and monitor processes on the work site. New functions that further optimise processes will be presented at Bauma. The "Performance Assist" feature helps operators to keep plant performance constant or to optimise it. Thanks to the new bi-directional control system SPECTIVE CONNECT CONTROL, direct access to the plant is possible via the app.

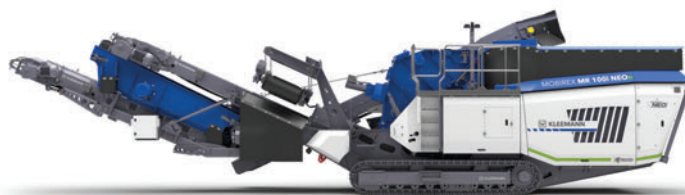
Another new feature on show at the Bauma is that all Kleemann classifying and scalping screens also have SPECTIVE CONNECT.



KL\_SPECTIVE CONNECT The new "Performance Assist" function from Kleemann helps operators to keep plant performance constant or to optimise it.

### MOBIREX MR 100 NEO - the new powerful, flexible compact class

The new impact crusher MOBIREX MR 100 NEO shows that compactness, performance, sustainability and flexibility belong together. It is the only machine in this performance class to offer fully automatic crushing gap adjustment and zero-point determination as well as the "Lock and Turn Quick Access" securing system. Both will be presented to visitors in a live show at the Wirtgen Group exhibition stand. The impact crusher is available in two versions – the electric version MR 100 NEOe with the drive concept E-DRIVE will be presented to the trade audience at the Bauma. The material processing specialist uses this to demonstrate its activities in the field of electrifiable crushing and screening systems, which will also be a key topic at the trade fair stand in the Kleemann product area.



KL\_MSS 1102 PRO

With the MOBISCREEN MSS 1102 PRO, Kleemann presents the first screening plant in the PRO line.

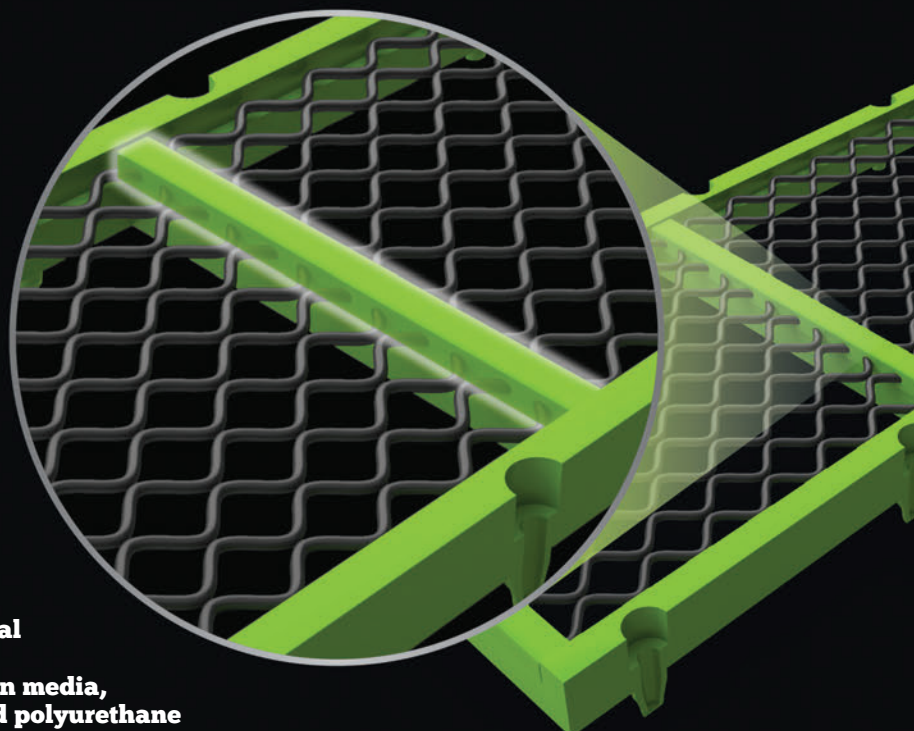
KL\_MR 100 NEOe

The Kleemann MOBIREX MR 100 NEOe with drive concept E-DRIVE can be operated all-electrically on site, free of CO2 emissions.





# MAJOR improves screen media durability with new Advanced Polyurethane Strip Variant



**MAJOR, a leading global manufacturer of high-performance wire screen media, introduces an advanced polyurethane (PU) strip variant for the FLEX-MAT Modular series. The new variant increases the screen media's durability, extending its lifespan and effectiveness in wet and corrosive environments.**

MAJOR will be highlighting the advanced PU strips and other screen media solutions at AGG1 2025 in St. Louis. Visit MAJOR at booth 1809.

"While most screen media provide excellent durability, we noticed accelerated wear in some corrosive applications," said Kevin Laporte, MAJOR R&D manager. "We immediately began testing to create a corrosive-resistant alternative we could develop into a new polyurethane variant. The new polyurethane strips would allow these specialty operations to benefit from FLEX-MAT's productivity-boosting qualities while still maximizing uptime."

The advanced PU strip features greater chemical stability to improve performance in alkaline, acidic, and wet environments, such as limestone operations. Advanced durability extends the overall wear life of screen media in applications where the PU strips typically wear out before the steel wire and affect the integrity of the screen media.

OPTIMUMWIRE bonds to our distinctive lime green PU strips to offer higher wire vibration than woven wire screen media. The unique chemical compound we developed for our advanced PU strips hold up well against corrosive materials to ensure the strips match the lifespan of our OPTIMUMWIRE® and maintain screening integrity longer, up to ten times in some cases. The new durability of the PU strips still allows the same flexibility as our standard option so the wires can vibrate

freely. The high frequency of the OPTIMUMWIRE wire remains — 8,000 to 10,000 cycles per minute — to speed up material separation and passing.

Like MAJOR's standard polyurethane composition, the advanced PU strips are available for the FLEX-MAT Modular D, S and T Series. The new variant is not intended to completely replace the standard polyurethane.

"The advanced PU strips aren't meant as a complete replacement for standard polyurethane. Instead, they're a special-order option for screen media going into harsh environments," Edwards said. "The best use of the advanced PU strips is when operations are screening corrosive or wet materials or when the operation notices their polyurethane is breaking down faster than the steel wire. In most cases, the standard polyurethane strip option continues to perform optimally for our customers."

All FLEX-MAT screen media feature the company's signature FLEX-MAT ID Enabled technology with an RFID tag embedded in the frame. This technology allows customers to easily access product information by scanning the RFID chip with The MAJOR App. Customer then have access to all screen media specifications and the ability to reorder without the need to climb onto the screen for physical measurements.



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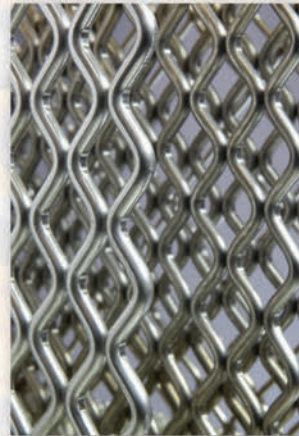
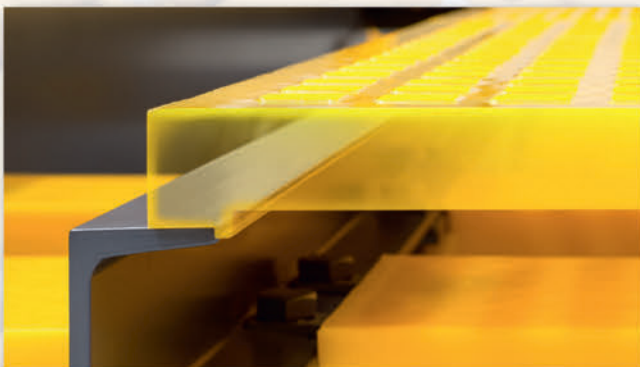
**TEMA Isenmann Ltd** are widely recognised as a UK leader in the design and manufacture of industrial screening systems. At Bauma 2025 we will be joining our colleagues from around the world on the ISENMANN Siebe GmbH stand.

ISENMANN Siebe GmbH will be exhibiting their full range of products, including woven wire, self-cleaning harp sieves, fan sprays and polyurethane in both tensioned and modular formats. You will also have the opportunity to discover the proven industry standard WS85, the most versatile and costeffective modular system. It achieves excellent results with all separation sizes in many applications, including but not limited to Sand and Gravel, Granite, Quartzite, Silica Sand, Limestone, Coal and Ironworks Materials.



Customers choose our products due to highly customised solutions according to their needs, combined with a cost-effectiveness guarantee. Meet our on-site service team at bauma to discuss customer support services, such as screen deck inspections and reports, technical & engineering solutions and cost-per-tonne contracts.

TEMA Isenmann are proud to be part of a worldwide group of companies that includes world leaders in the materials screening industry.



ISENMANN has dedicated itself to making the screening process as simple and effortless as possible for you. Therefore, in addition to our products, we will also be presenting solutions and services that are essential to us - which will help you to be even more successful and meet the requirements of the future. Feel free to contact us to find out why you always get the best deal when you choose ISENMANN.

If you wish to separate materials that are difficult to screen, take a closer look at our modular concept finger screens and tension mats. Both special solutions can be retrofitted to conventional screening machines and are particularly suitable for moist and sticky materials.

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- » solutions which are more than just a screen
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- » consistent product quality and accuracy of separation

**Custom applications are always a welcome challenge!**



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# Future-Proofing Material Processing: Why Static Plants are the Sustainable Choice

**In an era where sustainability is no longer a buzzword but a business imperative, the material processing industry stands at a crossroads. As recycling, bulk material handling, and quarry operations face increasing pressure to reduce environmental impact while boosting efficiency, static plants are emerging as a forward-thinking solution. Unlike their mobile counterparts, static plants offer a robust, long-term investment that aligns with the dual goals of operational excellence and environmental compliance. At CRJ, in partnership with industry leaders like Bruce Engineering and Pronar, we're championing this shift toward sustainable, future-proof processing solutions.**

### **The Case for Static Plants**

Static plants are designed with permanence in mind, delivering unmatched durability and consistency for high-volume operations. Whether processing waste, recycling materials, or handling aggregates, these installations provide a stable foundation that optimises throughput and minimises downtime. Their fixed nature allows for bespoke configurations tailored to specific site needs, integrating advanced technologies that enhance efficiency and reduce energy consumption. This is a stark contrast to mobile units, which, while flexible, often compromise on longevity and scalability.

From an environmental perspective, static plants shine as champions of compliance. Equipped with cutting-edge water and waste management systems, they address two of the industry's most pressing challenges: resource conservation and pollution control. By recycling water and processing waste on-site, these plants reduce reliance on external resources and ensure adherence to stringent regulations, a critical factor as environmental standards tighten globally.

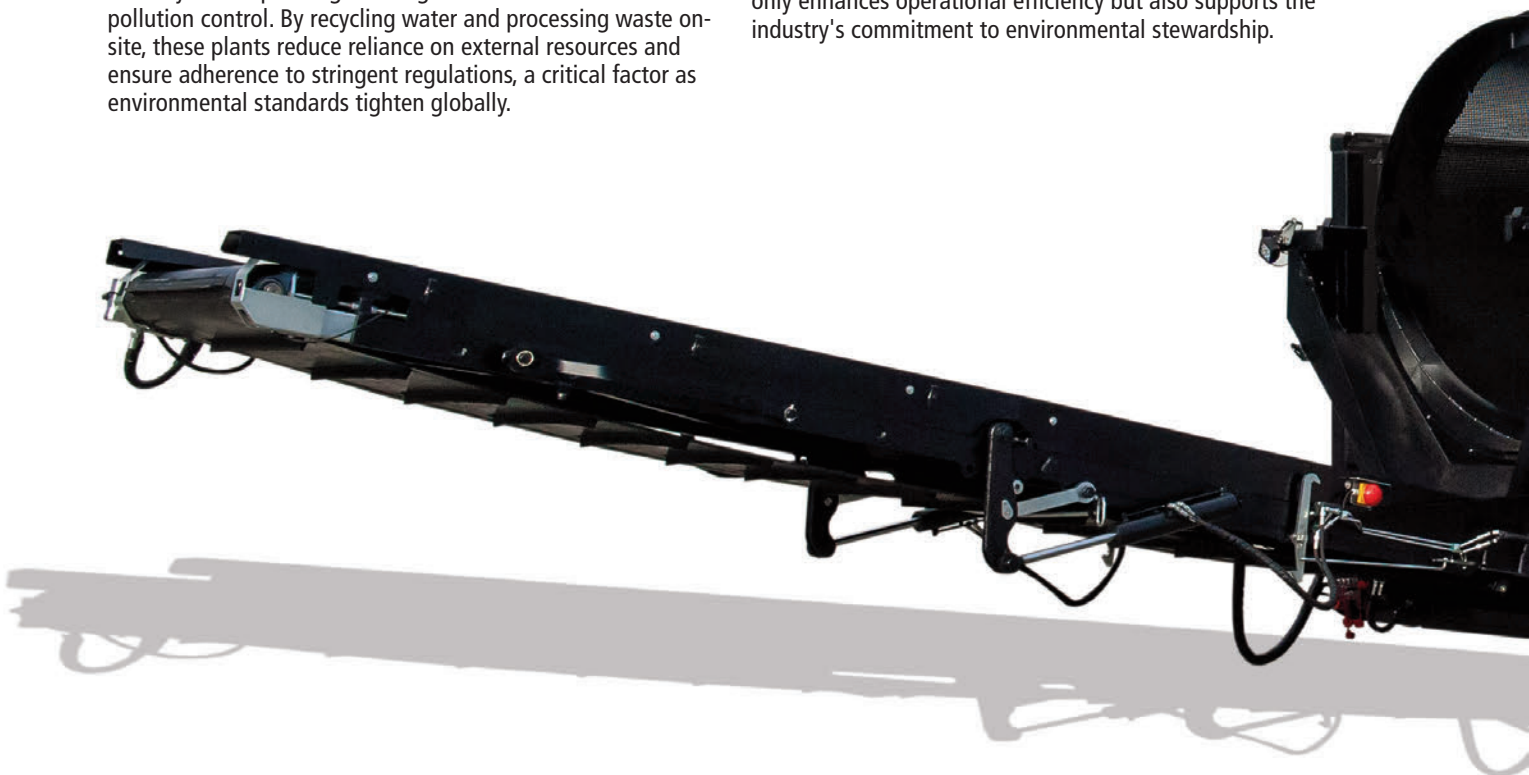
### **Pioneering Water and Waste Solutions**

A key player in this sustainable revolution is Bruce Engineering, a name synonymous with over 60 years of innovation in material processing. Through our exclusive dealership in the Midlands and North of England, CRJ brings Bruce's expertise to the forefront. Their bespoke static wash plants, such as the Bruce Washpod and Modular Wash Plants, exemplify how water efficiency can be maximised without sacrificing performance.

Bruce's turn-key solutions also tackle waste processing head-on. By integrating modular units like density separators and rinsing screens, their plants transform waste streams into valuable resources—perfect for quarry owners looking to diversify revenue through recycled materials. This closed-loop approach not only meets environmental compliance but also positions operators as leaders in the circular economy.

### **Enhancing Efficiency with Pronar Trommel Screeners**

CRJ Services is proud to offer Pronar trommel screeners, which perfectly complement Bruce Engineering wash plants. These advanced screeners are designed to handle a variety of materials, including soil, compost, and construction waste, making them ideal for both quarry and waste recycling operations. By integrating Pronar trommel screeners with Bruce Engineering's wash plants, businesses can achieve a seamless processing line that maximises material recovery and minimizes waste. The robust design and efficient screening capabilities of Pronar trommel screeners help operators meet their sustainability goals by reducing landfill use and promoting the recycling of valuable resources. This synergy not only enhances operational efficiency but also supports the industry's commitment to environmental stewardship.







## A Strategic Investment

Investing in static plants is about more than immediate gains, it's about building resilience for the future. Ben McQuaid, CRJ Sales Director, sums it up perfectly: "Static plants represent a strategic commitment to efficiency and sustainability. With solutions from Bruce Engineering and Pronar, our clients aren't just meeting today's demands—they're setting the standard for tomorrow's industry." This long-term vision is backed by tangible benefits: lower operating costs, enhanced product quality, and a reduced environmental footprint that resonates with regulators and communities alike.

## CRJ: Your Partner in Sustainability

At CRJ, we don't just supply equipment, we deliver complete solutions. With a hire fleet of over 110 mobile machines and a

parts division stocking over £2m in spares, we ensure your static plant operates at peak performance. Our nationwide support team, coupled with our partnerships with Bruce Engineering and Pronar, amongst other notable suppliers, means you're never alone in navigating the complexities of modern material processing.

As the industry evolves, static plants stand as a testament to what's possible when innovation meets sustainability. For recycling, bulk material, and quarry operators ready to embrace the future, CRJ offers the tools and expertise to make it happen. Contact us today at [crjservices.co.uk](http://crjservices.co.uk) to explore how static plants can transform your operation into a model of efficiency and environmental responsibility.







# Anniversary Open Day

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# Glensanda's 200 Millionth Tonne Sets Sail

**Glensanda Quarry, the largest hard rock quarry in Europe, has reached a remarkable milestone with the shipment of its 200 millionth tonne of granite. The cargo departed from the site on the MV Yeoman Bank, bound for Great Yarmouth, marking another significant chapter in the quarry's storied history.**

Since its first shipment in August 1986, when the Hellesport Monarch set sail for Houston, Texas, Glensanda has played a pivotal role in supplying high-quality granite to infrastructure projects worldwide. Over the years, 6,814 vessels have left the harbour, reinforcing its status as a vital hub for the global construction industry.

Beyond its industry impact, Glensanda supports local employment and the wider economy, providing skilled jobs and career opportunities in the region. The quarry operates as a key employer in the west of Scotland, with a dedicated team that ensures the seamless extraction, processing, and transportation of aggregates to domestic and international markets.

Gregor Hutchison, Harbour Master at Glensanda, commented: "Reaching the 200 millionth tonne milestone is an incredible achievement for everyone involved at Glensanda. It's a testament to the dedication and expertise of our team, who work tirelessly to maintain the highest standards of safety, sustainability, and efficiency. This moment not only reflects our success in delivering quality materials to key projects but also highlights our commitment to supporting the local community and economy."

This milestone reinforces Glensanda Quarry's continued role as a cornerstone of the aggregates industry, and with a strong focus on sustainability and innovation, it is well-positioned for continued success in the years ahead.





# Enhancing Water Filtration Efficiency at Layer Water Treatment Works

## Overview

- **Client:** Northumbrian Water Ltd (NWL)
- **Location:** Layer Water Treatment Works, Essex & Suffolk Water
- **Project Start:** 18 months ago (Fact check)
- **Completion:** January 2025
- **Key Partners:** Duo Group, Terex Washing Systems (TWS), Nexdorf Electrical, Pleshey Forge, Axon



## Introduction

As part of a £30 million investment to ensure a sustainable and resilient water supply for over 300,000 residents in Essex, the Layer Water Treatment Works has undergone a significant upgrade. The goal is to enhance filtration performance and improve raw water quality by upgrading the sand washing system and installing a new Mecana filter block.

Duo Group, in collaboration with Terex Washing Systems, played a crucial role in supplying and installing the advanced FM120C sand washing system, ensuring the highest efficiency in filter media processing.

## Challenges

### 1. Aging Filtration System:

- The existing sand washing system was outdated, affecting filtration efficiency.

### 2. Raw Water Quality Decline:

- Climate change-related factors were impacting raw water quality, increasing the need for a pre-treatment solution.

### 3. Operational Efficiency:

- The need for a chemical-free solution to improve sustainability and reduce maintenance costs.







## Solution

The project was executed in two key phases:

### Phase 1: Sand Washing System Upgrade

- Installation of a new Terex Washing Systems FM120C plant to improve sand cleanliness and optimize filtration.
- The plant includes:
  - H12 Feeder – Handles feed material efficiently.
  - 12x5 Double Deck Static Rinsing Screen – Removes unwanted fines and debris.
  - Prewash System & Cyclones – Ensures optimal sand classification.
  - Radial Product Conveyor & Dewatering Screen – Improves sand recovery and water efficiency.
  - Freshwater Tank & Pumps – Maintains consistent water supply for operations.

### Phase 2: Mecana Filter Block Installation (Planned for Summer 2026)

- This chemical-free pre-treatment system will improve raw water quality before it enters the main filtration process.
- Designed for off-site construction, minimizing disruption to ongoing operations.

## Process Breakdown

### 1. Sand Removal & Transport:

- Contaminated sand from filtration beds is removed using dump trucks and fed into the H12 Feeder.

### 2. Screening & Prewashing:

- Oversized materials and debris are removed using a double-deck rinsing screen.

### 3. Sand Classification & Recovery:

- Fine sand is separated using cyclones, reducing material loss and improving sand reuse.

### 4. Dewatering & Storage:

- A high-frequency dewatering screen ensures minimal residual moisture in the final product.

### 5. Water Treatment & Recycling:

- Variable Speed Pumps (VSPs) manage water flow, while a settling pond system ensures sustainable water use.

## Challenges & Solutions

### 1. Break Tank Resealing:

- Addressed water leakage by applying Sika Sealant and installing a rain protection system.

### 2. Pipework Modifications:

- Reoriented non-return valves to prevent backflow.
- Extended VSP pipework to fully drain water tanks, improving system efficiency.

### 3. Logistics & Installation:

- Equipment was pre-assembled at the TWS factory in Northern Ireland, ensuring a smooth on-site installation.
- Mobile cranes and telehandlers were used for precise placement of large components.

## Results & Impact

**Improved Filtration Performance** – Cleaner, more efficient sand washing enhances water treatment.

**Sustainable & Chemical-Free Processing** – Reducing environmental impact while maintaining high-quality water standards.

**Increased Operational Efficiency** – Modern equipment reduces maintenance downtime and improves output.

**Reliable Water Supply for 300,000+ Residents** – Ensuring long-term water security in Essex.

**Cost Savings & Resource Efficiency** – Recycled sand minimizes the need for purchasing new material.

## Conclusion

The Layer Water Treatment Works upgrade sets a new benchmark in sustainable water filtration. By integrating advanced Terex Washing Systems technology and innovative engineering solutions from Duo Group, the project enhances water quality, supports climate resilience, and improves long-term operational efficiency.

With Phase 2 on the horizon, this collaboration between Northumbrian Water Ltd, Duo Group, and Terex Washing Systems continues to drive progress in innovative water treatment solutions.





THERE'S  
**ALWAYS**  
A WAY

## Powerful Partnership: Duo Group & Terex Washing Systems

In partnership with Northumbrian Water Ltd, Duo Group and Terex Washing Systems have delivered a cutting-edge sand washing solution at Layer Water Treatment Works, enhancing filtration and securing clean water for 300,000+ residents.

With the Terex FM120C, we're maximising material recovery, minimising waste, and elevating operational efficiency—because superior processing drives superior results.



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# McLanahan Corporation celebrates 190 years with a Strong Focus on UK Growth

**In 2025, McLanahan Corporation proudly marks its 190th anniversary—a testament to nearly two centuries of innovation, resilience, and commitment to excellence. Established in 1835, McLanahan has evolved from a small foundry into a global leader in material processing solutions, serving industries such as aggregates, mining, and agriculture. Over the decades, the company has pioneered numerous industry advancements, earning a reputation for reliability, cutting-edge technology, and unparalleled customer support.**

A big focus for McLanahan over the last decade has been intensifying its focus on the United Kingdom and European markets. Recognizing the region's dynamic industrial landscape and growth potential, the company has drastically expanded its UK and European teams to better serve existing clients and forge new partnerships. This expansion is a pivotal move in McLanahan's strategic growth plan, reinforcing its commitment to bringing its world-class expertise to new markets and strengthening its presence on an international scale.

### **A Legacy of Innovation and Excellence**

For nearly two centuries, McLanahan has been at the forefront of engineering advancements, continuously adapting to meet the evolving needs of industries around the world. The company's roots date back to 1835, when James Craig McLanahan founded the business in Hollidaysburg, Pennsylvania. Originally established as a small foundry, McLanahan quickly gained recognition for its ability to manufacture high-quality equipment that improved operational efficiencies for mining and aggregate processing industries.

As industrial demands grew, so did McLanahan's product offerings. The company developed pioneering solutions such as the first Log Washer in the 1890s, which revolutionized the way clay and other contaminants were removed from aggregate materials. Over the years, McLanahan introduced game-changing innovations, including the first Single Roll Crusher and advanced washing and classification equipment that have since become industry standards.>





Today, McLanahan continues to push the boundaries of material processing technology, integrating automation, sustainability, and efficiency into its product line. With a strong focus on research and development, the company ensures its solutions remain at the cutting edge of the industry, helping businesses enhance productivity while reducing environmental impact.



## Expanding Further into the UK and European Markets

As part of its long-term growth strategy, McLanahan is making significant investments to establish a stronger foothold in the UK and Europe. The region's booming construction, mining, and recycling industries present a tremendous opportunity for McLanahan's material processing solutions to drive efficiency, sustainability, and profitability.

The UK in particular has seen a surge in demand for high-quality aggregate processing equipment, driven by major infrastructure projects and increasing environmental regulations. McLanahan's expertise in crushing, screening, washing, and recycling equipment positions it as a key player in helping companies navigate these challenges. With its robust and efficient equipment, McLanahan aims to support quarries, recyclers, and material handlers in meeting stringent sustainability goals while maximizing operational efficiency.

McLanahan's dedicated UK and European team ensures that customers in the region receive the same level of expert service and support that the company is known for globally. This local presence allows McLanahan to respond quickly to market demands, provide tailored solutions, and establish strong partnerships with businesses across the region.

## Delivering Tailored Solutions to Meet Market Needs

McLanahan's current team in the UK and Europe is driven by a commitment to understanding and addressing the specific challenges faced by businesses in the region. The company recognizes that no two operations are the same, and its solutions are designed to be adaptable, efficient, and tailored to meet unique customer requirements.

For aggregate producers, McLanahan offers a full suite of solutions, from primary crushing equipment like jaw crushers and impact crushers to washing and classifying equipment that ensures the highest quality materials. The company's UltraWASH modular wash plants have gained popularity for their versatility, enabling operators to efficiently process aggregates while minimizing water consumption and energy use.

In tailings and water management, the goal is to reclaim as much water as possible for reuse and to get the solid fractions into a state that can be safely and easily stored and handled. McLanahan provides a wide range of tailings management solutions to help producers achieve these goals, as well as

meet environmental regulations. The company's tailings management solutions can offer producers a way to separate the solids from the liquids, resulting in a dry, drip-free, easy-to-handle solid product that can be sold, as well as clean process water that can be reintroduced into the production process. By implementing one or more of McLanahan's tailings management solutions, producers can significantly reduce or potentially eliminate their settling ponds and the hazards and maintenance associated with them.

With sustainability becoming an increasing priority, McLanahan is also expanding its range of solutions for the recycling industry. The company's expertise in material recovery, fines separation, and waste processing helps businesses reduce landfill waste, recover valuable materials, and contribute to a circular economy. By integrating advanced technologies such as sensor-based sorting and automated material classification, McLanahan is helping customers optimize their recycling processes and improve overall efficiency.



## A Commitment to Customer Support and Long-Term Success

One of McLanahan's core values is a dedication to customer success. As the company expands its footprint in the UK and Europe, it remains committed to providing industry-leading service, training, and technical support. With a local team in place, customers can expect timely assistance, on-site consultations, and access to a comprehensive inventory of spare parts to keep operations running smoothly.

McLanahan's focus on long-term partnerships is evident in its approach to customer relationships. The company works closely with clients to understand their operational challenges and provide solutions that enhance productivity and profitability. From initial consultation and equipment selection to installation, maintenance, and continuous support, McLanahan's customer-first philosophy ensures that businesses receive maximum value from their investments.

## Looking Ahead: The Next Chapter for McLanahan

As McLanahan celebrates its 190th anniversary, the company is not only reflecting on its storied history but also looking ahead to the future. The expansion into the UK and European markets marks an exciting new chapter, one that underscores McLanahan's adaptability, forward-thinking approach, and unwavering commitment to excellence.

With the increasing global emphasis on efficiency, sustainability, and technological advancements, McLanahan is well-positioned to drive positive change in the industries it serves. By combining nearly two centuries of expertise with a bold vision for the future, McLanahan is ready to support businesses across the UK, Europe, and beyond in achieving their operational goals.



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# Major construction materials supplier The Ashcourt Group leads a sustainable future with CDE wash plant

**CDE, a leading provider of wet processing solutions, has commissioned a 100tph C&D waste recycling plant for The Ashcourt Group, located at their Pocklington site in East Yorkshire.**

Operating since 1996, The Ashcourt Group is a leading construction materials supplier throughout Yorkshire, Lincolnshire and the North East. The company operates a number of state-of-the-art wet batch concrete batching facilities which are some of the largest and most technically advanced concrete production facilities in their operating area.

In addition to this, The Ashcourt Group produce and distribute a wide range of high-quality aggregate products derived from a network of quarries, wash plants and overseas imports.

As one of the biggest concrete manufacturers and aggregate suppliers in their operating area, The Ashcourt Group wished to expand its operations with the integration of a new wash plant which will be used to support its existing concrete and aggregates businesses.

Commenting on the decision to invest in a CDE plant, Emily Summerson, Group Operations Director at The Ashcourt Group said: "As a market leader and innovator, The Ashcourt Group is forward looking and recognises the need to move towards

providing more sustainable construction materials. There is a market shift in what customers are looking for, many customers now care about the green credentials of their materials and materials suppliers.

"Additionally, it made sense for us as we are generating these materials which, without the wash plant, would have to be processed as a waste material, instead we are able to wash and recover a range of sand and aggregates in a well-placed location to serve the markets from Hull to York whilst diverting more waste from landfill."

The Ashcourt Group had confidence in CDE's expertise to design a solution which would increase the amount of material they could process to meet current business and market demands.

Reginald Port, Director Ashcourt (Hull & East Yorkshire) said: "We spoke to some major suppliers and decided to opt for CDE based on their extensive experience with this type of plant. I visited a number of older CDE plants which have been operational for over a decade. We are interested in the lifetime of this investment, and we know that with CDE we have a long-term partner that will continue to provide support across the life of the plant."



# Aggregate Washing & Screening



In order to serve the changing market landscape, CDE has designed a 100tph wet processing solution. The plant comprises a CDE R4500 primary scalping screen, AggMax™ 252R scrubbing and classification system, EvoWash sand wash plant, AquaCycle™ A600 thickener, and Filter Press sludge dewatering system.

The R4500 electric scalper with apron feeder delivers unrivalled protection of the downstream process by maximising product yield from feed material. The unique construction of the VibroCentric drive removes unnecessary weight while delivering acceleration up to 5G for enhanced screening performance.

The pioneering AggMax scrubbing, and classification system combines pre-screening, scrubbing, organics removal, sizing, stockpiling, fines recovery and filtrates removal on a compact chassis. The integrated trash screen allows for the effective removal of organics and other lightweight contaminants, ensuring the production of the highest quality final aggregates and mineral ores.

The EvoWash sand washing system is engineered for in-spec sands with hydrocyclone technology and gives unparalleled control of silk cut points to produce quality materials and guarantees return on investment. It is also equipped with the VibroSync drive centre which distributes power evenly across the full screening area and ensures maximum transfer of energy to material for unrivalled dewatering performance.

The integration of CDE's AquaCycle technology is allowing the site to recycle more water, ultimately reducing energy costs. An alternative to water extraction and the costly process of pumping water to the plant, CDE's AquaCycle minimises water



consumption by ensuring up to 90% of process water is recycled for immediate recirculation.

The CDE filter press is designed and built to deliver maximum plant efficiency, eliminating the need for tailings dams or settling ponds which, in turn, significantly reduces waste handling. The filter cake contains 85% dry solids and can be used in several applications such as pond lining or landfill capping, eliminating waste disposal costs.

The plant also features AutoLime™ which controls the lime mixing process to ensure optimal delivery and efficiency.

The plant is producing six final products (two sands; 0-2mm soft sand and 0-4mm coarse sand, and three aggregates; 4-10mm, 20-40mm and 40-80mm) as well as filter cake which will be applied in lining landfill cells.





With the opening of the new wash plant, The Ashcourt Group reinforces its position as a leading provider of building materials in the area and continue to stay committed to sustainability and environmental stewardship.

Emily Summerson adds: "Since commissioning the plant in June 2023, our recycled materials have been well received in the marketplace with great feedback on the quality. We are dedicated to providing the highest rates of recycling possible and this new plant in Pocklington is helping enhance this. We are currently diverting more than 90% of material which would have otherwise been sent to landfill."

The wash plant investment is allowing The Ashcourt Group to build a circular economy business model and offer the full solution to its customers.

Discussing the value of the additional plant, Reginald Port said: "The wash plant has allowed us to keep our tipping reserve free and internalised a lot of spend which previously went to third parties, with the wash plant we are able to become increasingly more self-sufficient to supply our own construction projects and reduce costs.

"The wash plant has definitely met our expectations, in fact, it has exceeded them with the specified tonnages. We thought 100tph would be top end processing, but we are regularly doing 115–120 tph and up to 150tph depending on the feed material.

Mike Bibby, Business Development Manager at CDE said: "Plants like this are the future of the industry and a testament to

Ashcourt Group's passion for diverting waste from landfill and creating a circular economy. It's been a pleasure to work with the team at Ashcourt to build a solution that aligns with their goals.

"At CDE we are committed to delivering quality products which stand the test of time. The Ashcourt Group was focused on investing in a plant which was going to be easy to maintain with quality long lasting components which CDE delivered. We look forward to working together with The Ashcourt Group team as they continue to grow."

For more information on CDE's wet processing solutions visit [CDEGroup.com](https://www.CDEGroup.com)





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# Shaking it up: Dewatering Screen downtime resolved

By Larry Horrie / Account Manager, Martin Engineering

After fresh water, sand is the most widely consumed natural resource on the planet. It is valued for different grades and qualities due to its wide application across nearly every manufacturing, scientific, and construction process from laser lenses to microchips to cement. The annual world consumption of sand is estimated to be >15 billion tons, with a respective trade volume of 70 billion dollars. [1][2]

Whether extracted from a dry inland quarry or underwater resource, impurities and biological material must be removed, otherwise the sand can contaminate the end process. Removing impurities from the product further saturates it, causing it to enter the processing and drying system as a slurry. Liquid adds tremendous weight and sand is generally sold as a commodity with a very low moisture level. Although some end users don't require dried sand, most do, so the water needs to be extracted.



Inland sand is extracted and placed in stockpiles for transport to the processing plant.  
Copyright © 2025 Martin Engineering®

To remove water, the sand is passed through a screening process involving industrial vibrators. The volume and sustained operation of the process can put a lot of strain on the vibrators, so it is not uncommon for them to break down. This is accompanied by downtime and lost production which makes lead time in being able to replace units and reliability of the vibrators extremely important.

This article walks through the process of one of the largest sand mining operations in the Southern United States and discusses the impact that quality vibration has on the operation.

## Clean Sand Makes Strong Concrete

The first stop for mined and quarried sand is the sanitization plant where the sand is washed of impurities including clay, silt, salts, and mica, as well as organic matter which can propagate the growth of bacteria. Along with improving the adhesive quality of the end product, the removal of organic impurities and bacteria can eliminate odor, reduce the potential for illness and remove other elements that can hinder the curing of concrete or mortar, weakening the final product.

For construction purposes, 75-85 percent clean sand is sufficient enough for cement.[3] Having a larger surface area than sand, clay creates a filmy barrier around sand particles which prevents or reduces the adhesion of cement by increasing the amount of water needed, in turn lessening the

strength of concrete or mortar. A high presence of mica can have structural implications due to the smooth surface of the particulate. Because of the corrosive effect on reinforcement, the sand also needs to be tested periodically for coal residues.



## Amounts of Impurities in Processed Industrial Sand

Source: Acta Geotechnica volume 16, pages1127-1145 (2021)

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Although most purified sand is used for voluminous applications – cement, golf courses, playgrounds, etc. -- some industrial applications such as the manufacturing of optical lenses and microchips require a greater purity devoid of iron, titanium and aluminum oxides. This detailed processing may not be done by the mine or quarry but is often performed by a specialist entity catering to specific industries.

## Dancing Sand

Leaving the sanitation process as a slurry, the sand is conveyed to hoppers connected to rubber tubes, which direct the gritty flow to the screening racks. Several tons per hour of heavy wet granules are vibrated across the screens, so the water extraction process needs to be fast to meet production demands. It is then dropped on a conveyor to be transported to either the drying kiln or the outdoor storage area.



The wet slurry jumps across the screen as moisture drains through the fine mesh cloth.

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The processing plant that services the sand mine has three dewatering racks with sloped screens covered with a specially made porous cloth that allows moisture to pass through, but none of the fines. The racks sit on spring stabilizers to absorb the force output of the two high-powered electric vibrators mounted on top that counter-rotate to create a linear force through the rack's center of gravity. With enough torque to move tons of wet material up and down, the vibrators cause the sand to "dance" down the screen with the help of gravity.

Each impact against the screen cloth forces water from the material and through the screen openings, which then runs into troughs and is collected for proper treatment and disposal. By the time the material skips down to the end of the screen and discharges onto the next conveyor, it has the consistency of a dense meal.

## Breakdowns, Downtime and Maintenance

The intense demand and stress on the vibrators can be punishing, sometimes causing them to break down. To shut down a single rack translates to a proportional loss in production, so to avoid downtime, operators have the option of recalibrating a single vibrator when backup units are unavailable. In this instance, although production is reduced considerably, the material still passes slowly through the process, releasing considerably less water and putting a tremendous strain on the shaker screen and the single vibrator, reducing their operational life.

Maintenance on the unit is also a burden and a possible safety concern. When one breaks down it must be sent to a local motor repair shop to be fixed, which can take weeks. Weighing more than half a ton, a crane is used to remove the vibrator and load it for transport. Removal requires several employees, and working around unsupported heavy equipment can be hazardous.



The difference between the two units is apparent in the design

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"When the customer contacted us, it was one of those impossible situations with a screen out of commission, no backups left, the OEM unable to respond to their needs and nothing returning from the repair shop for weeks," said Grant Burton, Vibration Account Manager for Martin Engineering.

## Counter-Rotating Forces

Martin Engineering technicians matched the type of electrical vibrator with the correct output to that of the previous manufacturer. "OEMs often promote the myth that only their equipment will effectively operate their machine when the reality is that all another vibrator needs is similar horsepower, speed and torque," Burton explained. "Properly wire the vibrators to counter-rotate and match the force output by adjusting the eccentric weights, and the two units will naturally synchronize. By doing this we found that our MM-series vibrators fit nicely within the customer's existing parameters."

With two sets of weights mounted on each end of the motor's shaft, as the vibrator shaft rotates, the unbalanced mass of the eccentric weights is used to generate centrifugal force. [Fig. 1] To produce the proper force in a single vibrator, the two sets of weights can be adjusted so they are a mirror image. When synchronizing two vibrators, it is important to ensure the vibrators are counter-rotating and that the weights are properly adjusted to the same value. Once mounted to a piece of equipment, any adjustment made to one unit must also be done to the other.

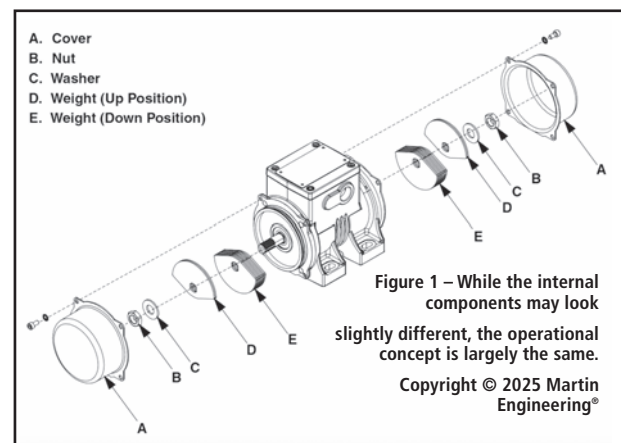


Figure 1 – While the internal components may look slightly different, the operational concept is largely the same.

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Although the function and general design are similar to competitor units, what sets the Martin Engineering designs apart is durability, service life and the fact that Martin is the only U.S. manufacturer that offers a 3-year guarantee on its continuous-duty, high-output/low-frequency industrial vibrators.

Engineered to stay running for long periods under punishing conditions, the Martin® MM-Series Electric Screen Vibrators use only the highest quality components, such as SKF or FAG bearings with a C4 clearance and Kluber grease. A 10-11 hp (7.5-8.2 kW) motor produces a centrifugal force of 31,000 lbs (14,061 kg). The unit incorporates O-ring seals and machined surfaces for a dust-tight/water-tight enclosure. The extended equipment life and reduced maintenance requirements deliver a fast return on investment due to reduced downtime.



The glossy finish helps protect the unit from dust, moisture and other elements.

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## Results

The vibrator was delivered and mounted more than a week faster than expected, bringing the operation up and running to full production. The customer replaced the old units as they broke down with Martin Engineering MM-Series vibrators in two of its plants. Having already installed 10 more units since the initial order, operators were impressed with the quality, service and long life of the equipment.

"It goes beyond just initially helping us get back to production," a manager close to the project said. "The vibrator lasts longer and Martin is more responsive to our needs because lead time is so crucial to our operations. This is the level of service and type of relationship we extend to our customers and it's nice to have partners who demonstrate the same values."

## Resources

- [1] "Sand, rarer than one thinks," UN Environmental Programme - Global Environmental Alert Service (GEAS). Nairobi, Kenya. March, 2014 <https://wedocs.unep.org/handle/20.500.11822/8665>
- [2] M. Garside, "Worldwide industrial sand and gravel production 2022, by country", Statista. March 2023 <https://t.ly/ZyCf>
- [3] "7 Types of Sand Used In Construction", Builder Space. March, 2023. <https://www.builderspace.com/types-of-sand-used-in-construction>

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# Sand and gravel quarry reaches full potential with help from a QMS washing plant



**Tarmac Croxden sand and gravel quarry has reached new levels of efficiency and performance thanks to the installation of a cutting-edge washing and screening plant from Quarry Manufacturing & Supplies (QMS). This advancement marks a transformative step for the Staffordshire site, ensuring it can reliably meet growing demand for its high-quality products while delivering enhanced production capabilities...**

Tarmac's Croxden Staffordshire sand and gravel quarry supplies a range of high-quality aggregate products to builders, contractors and landscapers working on small, medium and large sized projects in Stoke-on-Trent and the surrounding areas. However, the Croxden quarry faced challenges with its existing plant, which was no longer capable of supporting the operation's full potential. This led quarry management to seek a solution that would not only restore production but enhance productivity, accuracy and quality, cementing the quarry's reputation for excellence.



## New 1.83m x 6m washing screen

The Croxden quarry management team were already familiar with Coalville headquartered QMS, knowing of the support the company has provided to similar operations throughout the UK and Europe, delivering equipment, spare parts, aftermarket support and process advice. This gave the Tarmac team the confidence to contact QMS when seeking a solution. "We were pleased to be contacted and after assessing the situation we realised that we could not only rectify the situation, but also improve production and the quality of the end product," explains QMS managing director Jonathan Beck, who adds, "We have expertise in the quarrying industry, and providing a washing screen for sand and gravel production is right up our street."



After site visits and finding out what exactly was required, the QMS team devised a solution for the quarry. "What we came up with incorporated what the quarry's customers required from the sand and gravel produced there. We assessed the quarry and the logistics of the production process as well as what the end product would be used for. This resulted in us using one of our triple deck washing screens which is actually bigger in size than the one it replaced. Despite this, due to our engineers' expertise and experience, it fitted precisely in with the existing plant and equipment. In fact, the new screen provides a 50% larger screening area," adds Jonathan.

## High quality offering

Screening accuracy and washing efficiency is now provided by the QMS 1.83m x 6m inclined triple deck screen (manufactured to BS EN 1009.-.2020), producing 20mm and 10mm concrete sand and building sand. Any oversize is recirculated for further crushing and then redirected into the screening/washing process. The screen is equipped with wet modular vibrating units, huck bolt fastened decks, along with full length stiffeners. Aiding production is a large feed box to help distribute material across the screen.

The improved and renewed performance of the sand and gravel quarry should not come as a surprise to those familiar with the QMS offering and support. Since its foundation in the 1980s, QMS has developed a range of pre-designed modular plants designed to work with the most common crushing and screening applications in the quarrying, mining, demolition and recycling industries. The company has furthermore used its industry expertise to offer a bespoke design facility to meet customers' exact requirements. All QMS' offering is manufactured in the U.K. by QMS and have been designed to be mixed and matched interchangeably allowing hundreds of possible combinations. This concept provides a platform to not only meet current requirements but allows for upgrades in the future.

All QMS plants, such as found at the Tarmac Croxden sand and gravel quarry, include all the required walkways, stairs, handrails and guarding and are pre-wired and tested prior to leaving the factory, therefore saving valuable installation time on site. The equipment can be erected on site in minimal time using basic tools and features an integrated plug and play PLC control system, operated by touch screen, allowing the plant to be up and running in a matter of hours. All equipment is supported by QMS' aftersales service, with QMS engineers being experts in the installation, commissioning and servicing of all types of quarrying equipment.

"QMS personal liaised with us many a time during design period and fabrication. This process gave QMS a good insight and understanding as to site requirements. This benefitted the site and Tarmac as a whole. The new screen QMS designed and installed has delivered in all aspects as build quality is good. The washing and the production of accurately sized material, efficiently and reliably, enables us keep supplying quality products to our customers. Aftermarket support is very good with QMS always being proactive, extremely helpful and professional in all aspects of their work. We look forward to continuing to work with them at Croxden on other areas of plant as well dealing with our requirements," explains Jason Cotton, unit manager, Tarmac Croxden Quarry.

"The sand and gravel quarry was a tricky problem, but the QMS team rose to the challenge. We proactively sought to understand the quarry's real requirements, what the problems were, and what the customers required. This enabled our engineers to use their industry expertise to come up with the solution that is meeting production and quality targets. The plant's efficiency is further enhanced as we also provide full aftermarket care including quality inspections, spare parts and servicing," concludes Quarry Manufacturing & Supplies managing director Jonathan Beck.



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## STARCLEAN® belt cleaners help Sibelco glass recycling facility reduce carryback under main feed belt



**Sibelco is a leader in glass recycling. Their facility in Scotland recycles glass waste using a network of 20+ conveyors.**

Materials handled on site include mixed bottle and mrph (glass mixed with contamination). These materials are notoriously abrasive and often adhere to the belt, making it difficult to effectively maintain conveyor operation.



Notably, the main feed belt on site is subject to high throughput of mixed bottle and mrph. Together with an ineffective belt scraper, the belt suffered from extremely high levels of carryback, which would pile up under the conveyor. Site staff were required to clean-up these piles daily.

Staff spent hours cleaning under the main feed belt, culminating in 6 wheelbarrows worth of material waste per day. Furthermore, the scraper installed required frequent maintenance and would take 2 hours to back off, clean and reset per week.

**To solve the problem, the Maintenance Supervisor contacted ProSpare.**

A ProSpare service engineer visited site to assess the facility and scope the problem conveyor. STARCLEAN® primary and



secondary belt cleaners were chosen to combat the abrasive material and high throughput on this belt.

STARCLEAN® primary cleaners provide the benchmark for efficient carryback removal. Abrasion resistant, 85n, modular tungsten carbide blades were selected to provide extra durability.

The secondary cleaner from STARCLEAN®'s

500 series also uses tungsten carbide blades. These are bolted to a reinforced base which is perfect for heavy duty applications. It captures remaining fines of sticky, abrasive mrph and mixed bottle material waste.

Previously, staff would clean up 30 wheelbarrows of material carryback per week. STARCLEAN® has cut carryback by 80%. This equates to a reduction of approximately 1100 wheelbarrows of waste per year. The effectiveness of the scrapers has transformed a once labour intensive daily task into a routine job undertaken as part of regular housekeeping, once a week.

Similarly, the 2 hours a week it used to take to back off, clean and reset the old scraper has been reduced to just 15 minutes with STARCLEAN®. This saves staff over 80 hours each year.

Following the success of STARCLEAN® on the main feed belt, the client installed an additional 18 scrapers throughout the facility.



## Bloomfield Resources invest in a fleet of new machinery supplied by Molson Equipment

**Birmingham based Bloomfield Resources have recently taken on a new challenge with the purchase of A&A Recycling near Wolverhampton.**

The purchase gives Bloomfield a huge operating centre conveniently located to major road networks. The only downside is that the yard isn't up to the company's high standards, yet!

Whilst the yard is still in use on a daily basis taking in a variety of waste products, Bloomfield are currently investing substantial sums of money to redevelop the entire site to bring it up to their exacting standards.

The substantial program of works includes the erection of perimeter fencing designed and built to allow material to be stored against it, the installation of a new drainage system and the concreting of the yard and once this is completed, new material processing shed will be constructed to allow material to be worked on in a stable environment.

To undertake their redevelopment and recycling operations, Bloomfield has also invested heavily in a fleet of new machinery, all of which have been sourced from Dan Bailey at Molson Equipment. The order includes machinery from Hyundai, Sennebogen and Kobelco with recycling equipment next on the list.



The largest arrival is a 36 tonne Sennebogen 830E material handler which will handle the large volumes of metals the company will be handling. For the general waste products, and already hard at work, Bloomfield has added a Hyundai HL955A HDXT waste specification wheel loader and Sennebogen 822G material handler.

The Hyundai has been supplied in the Korean manufacturer's HDXT specification designed for the recycling industry. With an operating weight of just over 16 tonnes, the HL955A HDXT comes with a range of additional features designed to increase productivity and to protect the machine and operator working within the waste industry. The most noticeable addition is that of a set of longer loader arms. Offering an increased reach of 600mm over the standard machine's 3940mm pin height, the HDXT version retain the Z-Bar linkage to retain digging forces for penetrating stubborn materials. Included in this specification is a choice of tyres to suit particular applications with Bloomfield opting for a semi-solid puncture proof version. Additional guarding around the machine covering lights, front and rear cab windows and underbelly increase the durability of the machine. A high-tip bucket and fire suppression kit complete the loader's specification.

The busy yard sees the processed material loaded out onto a fleet of 44t gross walking floor artics with most of this operation carried out by the Hyundai. Positioning the loader as close to the piles of material, the loader moves quickly between material and the trailer dropping the material into the body. As the material reaches the top of the trailer, the added reach of the HDXT coupled with the high-tip bucket allows the operator to push down the material ensuring the load is packed in to stop it blowing about under the sheeting.

The Sennebogen 822G is the latest generation of material handlers coming from the manufacturer's Straubing factory in Germany. The G Series machines have been designed to increase service life and increase their future value. The 10m reach machine has been specified with K10 ULM front end equipment with tipping linkage and an NPK selector grab. The 22t material handler will provide a front line service for the business picking and sorting incoming waste to the site before it is processed. The 822G is a compact machine designed for smaller sites whilst still offering class leading performance. The G series have been designed with upgraded access points around the machine including a substantial boxing ring surrounding the upper structure. Power to the material handler comes from a tired and tested Cummins powerplant. With fuel efficiency at its heart thanks to an F3.8 Cummins powerplant, the 822G has joined another manufacturer's material handler and is currently impressing the team at the site.

At the time of our visit the Sennebogen was busy loading waste plasterboard into one of the many walking floor trailers passing through the yard. Sat on its four-point stabilisers, the machine quickly





picked the pieces of plasterboard up quickly loading them into the back of the trailer. The raising cab aiding the job by offering the operator a clear view across the top of the trailer ensuring the trailer is loaded evenly. The Maxcab offers unparalleled vision for the operator thanks to a combination of joystick steering doing away with the need for a steering wheel and column and huge areas of glass throughout the cab.

Undertaking the yard redevelopment works, Bloomfield has added a new Kobelco SK270SRLC compact tail swing excavator. With an operating weight just under 28 tonnes, the first few weeks of operation for the Kobelco was spent on ripping up the existing, poor quality concrete around the yard.

One of four large compact tail swing models in the Japanese manufacturer's range, the SK270SRLC uses a fuel efficient, 4-cylinder Yanmar engine delivering 127kW. Housed in a curvaceous upper structure, the engine, cooling pack and hydraulic system is easily accessed thanks to wide-opening doors right around the body. Unlike some compact tail swing machines, the SK270 boasts a large and spacious cab offering

the operator comfort levels mirroring those of a standard machine. The Kobelco cabs have come in for praise from many operators for its layout and comfort levels. The updated operator interface allows for quicker and easier navigation through the machine's various menus.

Working alongside a hammer equipped 25 tonne excavator, the Kobelco swaps between loading the broken material into tippers taking it away for crushing and screening to spreading out the returning crushed material to form a base for the new reinforced concrete yard to be laid on.

The huge investment being made by the company both on machines and infrastructure only goes to show the way in which the UK is driving forward this industry. Constantly pushed to increase recycling figures, it is companies like Bloomfield who are at the forefront of raising the bar for the UK recycling sector.





# Tarmac ramps up production thanks to Zappshelter

**When production volumes grew rapidly at their Tunstead Quarry, Tarmac needed extra storage for key cement-making material, clinker. As the UK's leading provider of sustainable construction materials and solutions, expanding their on-site stores while minimising environmental impact was a priority.**

The lack of dry storage for the clinker produced at Tunstead was already increasing production emissions and costs. With no weatherproof facility to store clinker during kiln shutdowns, the problem also led to interruptions in production.

As Steven Cox, Cement Grinding Production Coordinator at Tarmac, explains, "When (clinker's) been left outside before, it gains a crust on it, and we end up re-crushing it. So we're actually processing it twice, which is quite a cost to the business."

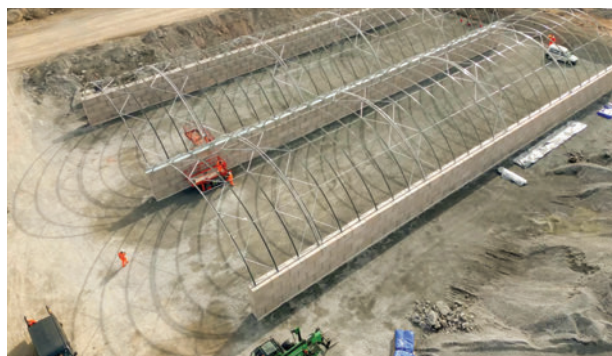
To prevent this and protect the material from the Peak District's harsh weather, the Tarmac team installed two 17m wide x 56m long Zappshelters, mounted on concrete blocks. Leaving both ends open for easy stock rotation and selecting custom grey-coloured Zappshelter canopies.

With this solution, on-site storage capacity was quickly increased with no impactful construction. As Steven sets out, "There was no groundwork required and the team were able to put the Zappshelter up on existing land within a few weeks."

"By having the clinker within the shelters themselves it means we're not having to reprocess it when we come to use it again. This means less power consumption, less machine usage and less emissions from the machines themselves."

Alongside the environmental benefit, the Tarmac team also saw a huge impact on production. As Steven outlines, "It just allows us to plan for a longer window throughout (kiln) shutdown, so we've always got clinker for cement production and are always able to satisfy the customers' needs."

Zappshelters are engineered to be permanent and made in Britain using Ferrotan steel. This is typically three to four times stronger than any other shelter systems in the market. This means they can withstand the Peak District's high wind, heavy rain and snow.



Steven said, "In terms of Zappshelters themselves, they've weathered some storms up in Buxton! We're renowned for being quite high up, with constant weather impact. With the resilience of them, they've not moved an inch."

Alongside the Zappshelter's speedy construction and reliability, Steven was impressed and reassured by the level of support from the team. "Although we didn't need it, Zappshelter was a call away for any remedial work," he says.

"I think anyone that's after additional storage for something that's quick to turn around with great support, then it's certainly an avenue you should look down. Zappshelter has been great for us and something that we'd look to use in the future again."



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## The cost-saving benefits of reliable storage bay solutions

A well-designed, dependable storage bay is more than just a place to keep materials – it's a strategic asset that can significantly reduce costs and minimise waste throughout the handling and transportation process, according to Owen Batham, Sales and Marketing Director at Elite Precast Concrete.

By effectively protecting materials from water exposure, these storage bay solutions offer numerous advantages such as:

### Preventing water damage

Water seepage is a silent culprit that can substantially increase the weight of exposed materials. This added weight not only compromises the integrity of the materials but also leads to inflated transport costs, especially when shipping charges are calculated based on weight, as waterlogged materials are often heavier and more challenging to manage. This increased difficulty in handling can:

- Extend processing times
- Increase additional labour hours
- Increase the risk of workplace injuries
- Raise potential damage to handling equipment
- Increase transportation costs

**Keeping materials dry and shielded from the elements is crucial for maintaining their quality. Proper storage helps prevent:**

- Degradation of material properties
- Mold and mildew growth
- Corrosion or rust formation

### Enhanced operational efficiency

Keeping materials together and dry, means you know where materials are kept and dry materials are easier to work with, leading to smoother operations and potentially faster processing times

### Lower energy costs

Dry materials often require less energy to process or transport, potentially reducing overall energy consumption.

### Extended shelf life

Many materials last longer when kept dry, potentially increasing their usable lifespan and reducing the frequency of replacements.

### Compliance with regulations

Proper storage can help businesses meet environmental and safety standard regulations related to material handling and storage.

### Increased safety

Properly stored materials are less likely to become unstable or hazardous due to water damage, enhancing workplace safety and by installing an A1 fire rated storage bay system, businesses can protect their infrastructure and materials as they:

- Reduce the spread of fire
- Pay no contribution towards a fire
- Are compliant with standards
- Can be used as part of your FPP (Fire Prevention Plan)

### Reducing overall costs

By investing in reliable storage bay solutions, businesses can realise significant cost savings through:

- Lower transportation expenses



- Reduced labour costs
- Minimised material waste
- Decreased need for material replacements
- Improved operational efficiency

In conclusion, implementing dependable storage bays, such as those built with Elite's interlocking concrete blocks is a proactive approach to protecting your materials and your bottom line.

The initial investment in quality storage solutions pays dividends by preserving material integrity, streamlining operations and ultimately reducing overall costs.

Elite Precast work with a number of specialist companies, who can design and fit roof structures to ensure the maximum use of space and a dry solution, call 01952 588885 and speak to Owen or Jess for more information or visit [www.eliteprecast.co.uk](http://www.eliteprecast.co.uk)



## Certora Training: A One-Stop Training Service



**Certora Training are excited to be making their debut at the Health and Safety Event, taking place at the NEC, Birmingham on 8-10 April.**

Formally known as Mentor Training Solutions and SERAC UK, both companies joined together to form Certora in January 2022 creating a training service that offers specialist training, assessment and qualifications. Including equipment operator training and renewal assessments, health and safety courses, Level 2 to Level 7 qualifications and waste management qualifications, supporting UK industries nationwide.



With over 30 years of experience, quality and compliance is at the heart of Certora, who work with many of the UK's leading standard setting organisations and accrediting bodies to deliver training that enhances workplace safety, engagement and compliance. Training is delivered at customer locations or at one Certora's specialist training venues.

### One Call for All Training - Managed Service

Proving to be invaluable to their customers, Certora's Managed Service offers a seamless solution to businesses looking to streamline operational safety training. Certora's Sourced Training team manage over 150 suppliers who are specialists in their field, from electrical training and drone training, to conflict management and confined space.

Customers rely on Certora to support their businesses in the facilitation, administration and management of all operational training and qualifications in line with their competency matrices.



Certora's team will even upload completion data into bespoke Learning Management Systems or where required, their systems team will work collaboratively with customers to create data uploads – keeping all data current.

### Vocational Qualifications

As a CIWM, MPQC, GQA and LANTRA approved centre for the delivery of qualifications, Certora offers a variety of industry specific qualifications ranging from Level 2 operator to Level 7 SHE for all types of roles and statutory / non statutory waste management qualifications. Their e-portfolio system gives managers full visibility of learner progression and milestones making the whole process



of completing the qualification seamless.

Proving to be extremely popular is Certora's e-learning course, designed by their training experts to support technically competent managers to prepare for their biannual CIWM Continuing Competence test. Written around the syllabus of the test, the preparation course covers the key generic elements, as well as site-specific activities such as Treatment and Transfer Hazardous/Non-Hazardous, Landfill Inert and End of Life Vehicles. Further modules will be developed throughout 2025.

Certora's team will be on stand 3/E82 if you want to talk about all things training, safety and qualifications.

## Introducing A Unique Training Experience

New for 2025, Certora have access to one of the UK's leading training venues, Tarmac's National Skills and Safety Park located in Nether Langwith, Nottinghamshire. From a highly equipped maintenance area and an occupational health room to multiple items of heavy plant and a specialist road surfacing area, this facility has a lot to offer.

This unique training location is ideal for those companies or individuals who require training, but don't have the space or access to equipment to facilitate training. Certora can arrange private courses for you or your employees or you can view potential opens courses available throughout the year via their website.

For more information, contact Certora's team on 01246 386900.





# Metso's UK & Ireland distributor to 'engage fully' in celebrations to mark 40 years of Lokotrack Mobile Crushing

**UK and Ireland distributor for the Metso range of Lokotrack mobile crushers, McHale Plant Sales, has confirmed its intention to 'engage fully' in plans announced by the Finnish crusher manufacturer to celebrate 40 years since the first Lokotrack track-mounted mobile crusher prototype was produced in 1985.**

It was an innovation designed to bring the added benefit of 'movement, flexibility, and transportability' to the process of aggregates production which was followed in 1987 by the commencement of series production of the Lokotrack range now known to quarry owners and aggregates producers across the globe.

Currently, the Lokotrack portfolio consists of 23 machines, each offering 50 configuration options. Part of the Metso Plus portfolio are their new diesel-electric EC range. With their award-winning design, EC units come equipped with cutting-edge crushing technology and digital tools to facilitate low carbon production in tune with the global drive towards sustainability and Net Zero.

Described by Metso as 'a notable milestone' and an 'industry first', the 40th anniversary will be marked by what Metso Vice President for Track Solutions, Jarmo Vuorenmaa says will be "a key highlight at our events and trade shows throughout 2025".

Commenting, McHale Plant Sales chairman, Michael McHale said: "across the world on every continent, Metso Lokotrack crushers have built a reputation for reliability and performance, qualities that have given them a strong market position in the UK and Ireland".

"A trusted name in the global aggregate crushing industry with over 11,000 units sold, Lokotrack has earned its place fully fulfilling the expectation set for it. Evolving from 'a bold idea' into a mobile, track-mounted crusher that would revolutionise on-site operations, Lokotrack has brought unmatched efficiency to quarrying, aggregates, road construction and other projects, eliminating all of the handling, movement, and logistical obstacles that had been a drag on the industry previously," McHale added.

According to detail set out in Metso's initial announcement, as the market evolves it will be their intention to 'stay ahead of trends and customer expectations' through innovation: an ambition evident in their construction of a new technology centre scheduled for completion in 2027, and in their transfer of Lokotrack manufacturing from its present base to a new more modern centre near Tampere, Finland.





# The Hidden Power of Relationships in the Events Industry



**When discussing events, we often focus on the tangible elements, how we deliver them, the solutions we provide to exhibitors, and the seamless experiences we aim to create. While these are undoubtedly important, there's another critical factor that doesn't always get the spotlight: the relationships we build with event organisers.**

These relationships are not just nice-to-haves; they're the backbone of success, both for us as suppliers and for the exhibitors we support. Here are a few reasons why these partnerships are crucial:

## 1. Shared Vision = Better Execution

A strong relationship with event organisers allows for deeper collaboration and understanding. When we're aligned with their goals, values, and audience insights, we can tailor our solutions more effectively. This alignment creates a seamless experience for everyone involved, from the organiser to the exhibitor and ultimately the attendee.



## 2. Early Access to Information

When relationships are built on trust, we often gain earlier access to key details about the event, floor plans, anticipated challenges, and attendee profiles. This allows us to anticipate

needs, be proactive with our clients, and ensure everything runs smoothly. That's what we're paid to deliver, an effective, positive outcome. Otherwise, why are we as a business being contracted if we don't add value?

## 3. Flexibility in Problem Solving

Every event has its hurdles, from last-minute changes to logistical surprises. A strong rapport with organisers means we're seen as trusted partners, making it easier to work together to solve problems quickly and creatively. Over the years these relationships have helped us support organisers with differing challenges without exhibitors ever becoming aware.

## 4. Building for the Future

Events aren't one-offs, they're part of an ecosystem that thrives on trust and collaboration. By investing in relationships with organisers, we're creating a foundation for long-term success. This benefits not only our business, but also the exhibitors who rely on us year after year. Positive shows benefit everyone involved, so it's in all of our interests to work together to achieve this.

## Final thoughts...

It's time we put more emphasis on the human side of the events industry. Beyond logistics, technology, and flashy solutions, it's the relationships we nurture that make the difference. By working closely with organisers, we can deliver more value, create lasting impressions, and drive success for all stakeholders.

Let's not just talk about what we do, let's celebrate how we work together to make events extraordinary.





# Batch of the day

**HOP MIX**

MOBILMIX

**LIEBHERR**

'I've worked with a variety of plants over the years and have to say that this is one of the easiest and most productive systems I've used.

Guy Stannett, Batching Plant Manager

**After decades of supplying ready-mixed concrete, a family business decided to retreat from the sector...only to return some years later armed with Liebherr drum mixers and batching plant...**



**Hopkins Estates is a true family business, founded in 1972 by Bill Hopkins - who remains at the helm as managing director - supported by his son Nathan and various grandchildren. Originally a property and development company, it grew into a multi-faceted organisation with interests in commercial and residential property, farming, transport and aggregates.**

By 2018, the success of its concrete and aggregate operations was attracting the attention of several 'majors' and was sold to Tarmac, leaving Hopkins more scope to focus on construction and farming opportunities. One of those opportunities was a large earthmoving project requiring a fleet of tippers and – unable to secure the vehicles locally – Nathan used his experience of the haulage market to acquire several trucks, just as the country plunged into the Covid crisis.



- 'It wasn't our intention to get back into the haulage industry but we were left with very little choice,' said Nathan. 'The lack of availability on the tipper front was mirrored when we needed a large volume of concrete for one of our development projects.' Acquiring a fleet of four volumetric concrete trucks, the family was "back in the mix", initially to ensure its in-house construction operations had a reliable source of material but soon it was supplying an ever-lengthening list of external customers under the new brand name of Hop Mix.



With the business continuing to grow and a suitable site identified at the firm's headquarters in Wincanton, Hopkins was now in the market for a batching plant and managing director Bill and son Nathan met Simon Cook, general manager of the concrete division at Liebherr GB, to discuss the options. 'We had run several batching plants at our facilities in

the past and wanted to ensure that we were able to obtain a consistently high level of productivity and quality from each batch,' said Nathan. 'Simon went through every detail with us and that saw us settle on a 3m3 Mobilmix 3.0 plant.'



Left to right: Nathan Hopkins & Sam Hopkins

The Mobilmix 3.0 offers users up to 132m3 per hour output with Liebherr's Litronic-MPS3 control system and is constructed so that break-down and re-assembly can be undertaken in just a few days. 'The site we are currently on will be redeveloped and knowing that we can easily relocate is a bonus for us,' added Nathan.

Batching plant manager Guy Stannett commented: 'I've worked with a variety of plants over the years and have to say that this is one of the easiest and most productive systems I've used. We know that we can easily meet our current needs with this plant and as things pick up, we have the assurance that we can keep increasing production when it's required.'

Getting the concrete to sites quickly is the job of 11 Liebherr HTM 905 drum mixers mounted on Scania 420P XT chassis allowing a 9m3 capacity. Hopkins knew exactly what it was ordering, as Nathan explained: 'The drums have proved themselves for decades in the UK market. They're exceptionally well made and very reliable with everything being built to allow for easy operation whether loading, discharging or cleaning.'

The rapid uptake for Hop Mix concrete has proved a pleasant surprise for Nathan. 'The trucks are all out almost every day which has been a great start for us. We're not going to predict any sort of volumes but if we can carry on in the same vein as the first few months have been, we'll be very happy.'



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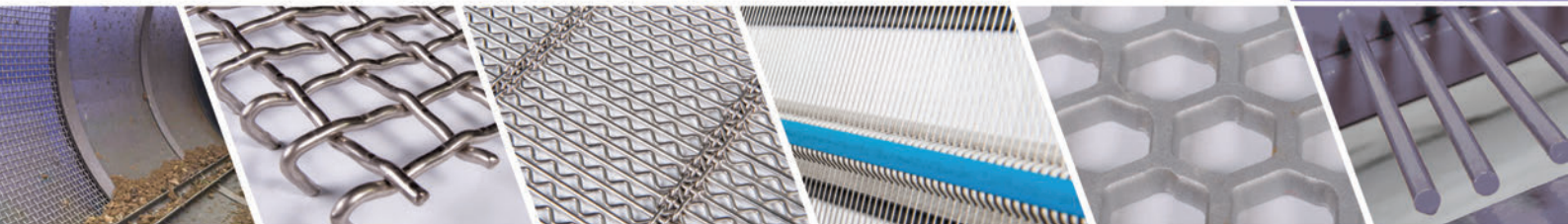
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