



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

May/June 2024 | Issue 86

PREVIEW



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Genuine parts ensure articulated hauler quality and uptime

Articulated haulers excel at navigating challenging terrain while transporting heavy loads, making them indispensable in construction, mining and infrastructure projects. However, the integrity of these machines can be compromised when fitted with alternative or substandard parts during maintenance or repairs, as Gary Bradburn, Rokbak Aftermarket Commercial Manager, explains.

Image: Genuine Rokbak replacement parts are all designed and approved at the Rokbak factory in Motherwell.

Rokbak Aftermarket Commercial Manager Gary Bradburn.



The importance of good quality, reliable parts when maintaining articulated haulers is paramount - especially with the increasing prevalence of lower-quality alternative components on the market. While some ADT owners may view opting for non-factory-approved components as a cost-saving measure, it often leads to a false economy. The hidden costs of alternative parts include higher parts usage, higher operating costs through lower efficiencies, greater risk of equipment failure and more frequent machine downtime.



Avoid shortcuts

Rokbak trucks are dependable and durable, built to perform on the toughest job sites and deliver maximum uptime with low total cost of ownership (TCO). That's why Rokbak factory-approved parts provide unequalled levels of reassurance – they are built to the original design and material specifications to deliver peak performance, reliability and durability in combination with your Rokbak truck.

The decision to use factory-approved parts extends beyond individual component integrity – it safeguards the integrity of the entire truck. We know that the poor fit and design of alternative parts can compromise overall safety and reliability, which can put both the equipment and operators at risk.

When alternative parts costs are particularly low, it's suggestive of the low-quality materials that have been used to make them. This means components of incorrect specification and greater risk of consequential damage, jeopardising site and operator safety and leading to an eventual increase in TCO – with a higher frequency of replacement components needed.

In contrast, genuine factory-approved parts ensure compatibility, durability and optimal performance.

Rigorously tested and meeting strict quality standards, official Rokbak components for the RA30 and RA40 articulated haulers offer peace of mind to customers and operators and prolong the equipment's lifespan.



Rokbak's guarantee

As part of the Volvo Group, Rokbak's commitment to quality ensures that every part meets exceptional standards. At Rokbak, we stand by our products with one of the most comprehensive guarantees in the industry. Our genuine replacement parts, designed and approved at our Motherwell factory in Scotland and supplied by an authorised Rokbak dealer, come with a 24-month or 6000-hour warranty.

By using Rokbak factory-approved parts for your Rokbak articulated hauler, you will extend your truck's service life, protect uptime and TCO and optimise value for the long-term.





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Welcome to issue 86

Welcome to our third edition of 2024 - issue 86.

In this issue 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 preview of what the major companies are exhibiting at the Hillhead show.

This year the Hub-4 magazine will have extra circulation in the July/August edition for the RWM show.

The second half of 2024:

If you're starting to look at marketing in the last half of 2024 our 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 all our Twitter, Facebook & LinkedIn pages all of which can be linked with electronic web and e-newsletter advertising – why not enquire about our extremely competitive packages.

Equally important is our free weekly e-newsletter which is distributed to our readers and can be found on-line here: <https://hub-4.com/pages/newsletter>

Finally, our fourth edition of 2024 will focus on the **RWM Preview/Mobile Quarry Equipment and Asphalt & Concrete Plant**, and I welcome any editorial contributions on these topics.

John Edwards
Editor

JULY | AUGUST 24

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

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RWM Resource Revolution **RWM SHOW PREVIEW**

RECYCLING - Open topics for this issue

BULK HANDLING - Open topics for this issue

Editorial copy deadline – 10th July 2024 Advert copy deadline – 17th July 2024



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Published six times a year.

Quality assurance from Liebherr

When a business is founded on the quality of its products, it follows that similar standards are demanded from its front-line equipment. Which is why Longcliffe Quarries returned to Liebherr Rental when it required a pair of high-performance wheeled loaders.

Longcliffe shifts more than a million tonnes a year of high-quality calcium carbonates for the construction, agricultural, manufacturing and other industries. At Its Brassington Moor quarry at Matlock in Derbyshire the company produces a range of limestone products and helping to maintain output over the next three years under a lease deal will be a pair of 29-tonne L 580 XPower® shovels carrying 5.7m³ general-purpose buckets.

They were brought in to replace similar-sized models in a large fleet that's a mix of owned and rented equipment. 'That gives us the flexibility we need to run our business,' explained quarry manager Jon Murgatroyd.

Last year the quarry took delivery of a new R 972 excavator from Liebherr's rental division and executives needed no convincing to return when the shovels became due for replacement, as Murgatroyd explained: 'We were very impressed with the way in which Liebherr Rental approached our early request and our requirements for the excavator. We were on the cusp of looking for a pair of wheeled loaders at the time and again, Gareth Blythin [Liebherr's national rental contracts manager] came up with a very good deal.'

A million tonnes a year is a reasonable volume but Longcliffe's business model values quality over quantity; it wants only the best stone to manufacture the various grades of industrial powders that are used worldwide. Stone not used in those processes is crushed and screened into aggregates for construction purposes.





Inside, the cabs have won praise from operators who enjoy the comfortable seats and large expanses of glass that provide allowing excellent visibility to front and sides. Liebherr's 360° camera system and rear-facing active personnel detection system are a further safety bonus. Standard across Liebherr Rental machines in the UK, the detection system is able to differentiate between a person and an object and will apply the brakes automatically within 6m of a person being detected. 'We have a huge responsibility for safety at our sites,' commented operations director Chris Wainright. 'The inclusion of these systems as

A huge stockyard adjacent to the crushing and processing plants holds various sizes of crushed aggregate and there's a steady stream of eight-wheeled tippers coming through the gates. The L 580s, part of the manufacturer's Generation 6 range, were both supplied with Liebherr's standard Z-bar configuration loader arms which, with a load-over height of just under 4m, means a standard tipper body can be loaded with ease – the 5.7m³ straight-edge buckets with bolt-on cutting edges will fill an average tipper in just two passes.

standard was a huge plus point for us, not only in terms of safety but in terms of having them included in the manufacturer's package.'

Transmissions in the L 580 models are married to 6-cylinder Liebherr diesels developing 313hp while the comprehensive standard equipment package includes joystick steering – common to every wheel loader on the rental fleet – Liebherr's own dynamic weighing system and LED adaptive lighting that proves valuable during winter months.

Since their arrival earlier in the year, both loaders have been busy servicing the stockpiles, the processing plant and other areas of the quarry. They will be maintained throughout their life on the site by Liebherr Rental's own service teams.

Last word on Liebherr Rental's service back-up goes to Jon Murgatroyd: 'We've had no major issues and any questions we've had have been dealt with promptly and efficiently.'





Irish Manufacturing Services (IMS) and Red Knight 6 (RK6) look to build the right blend

IMS, manufacturers of high-quality equipment for the blending and mixing of material, have appointed RK6 as their new dealer for the UK.

RK6 will focus their sales efforts on the range of mobile and static blenders, capable of dealing with high volumes of materials. Where refined mixing is required the blenders in the IMS range are equipped with mixing chambers and a rotating mixer shaft to thoroughly blend mulch, topsoil and sand for lawn development, golf courses and similar applications. The range of pugmills bring high production mixing with the added bonus of stockpiling capability.



The RK6 team, including their Spares and Service division, will also be looking after the many existing customers in the UK.

"We are seeing an increasing need for our products in the UK marketplace, particularly the blenders and pugmills. With our production and manufacturing expertise we need to



collaborate with a partner that works alongside customers in making the right recommendations on which product is right for them. That is why we chose RK6 as our partner for the UK," said Joseph McMeel, from IMS.

"I have known the guys at IMS for some time and I know the quality of products like the BP1200 blender, which has already proved itself a market leader. Whenever we take on a new partnership it is important that we build a strong relationship both with the factory, but also the customer base. We can absolutely do that with the team at IMS, I know they will do what it takes to make sure the customers in the UK get the best available machine for their needs. We are excited to get started," said Paul Donnelly, MD of RK6.

For more information on the IMS range available from Red Knight 6 Ltd visit – www.redknight6.co.uk

UK Economy poised for better times ahead

As speculation continues to swirl around the state of the UK economy and the date of the next General Election, information coming from the construction materials and equipment sector suggests that things could be 'on the turn'.

With inflation dropping and an economic turnaround now popping its head above the horizon, the first signs of growth and recovery are already evident.

Always a reliable bellwether of better times to come, positive movement in construction, in materials supply, and in ancillary services and trades can be another trusted guide.

Amongst a number of positive steps announced in recent weeks was Aggregate Industries' decision to open supply channels to East Anglia ahead of major projects planned for the region.

Another key supplier whose experiences would appear to echo that view is Metso whose mobile crushers and screening equipment are distributed in the UK by McHale Plant Sales.

Noting what they call 'an evident desire on the part of major customers to expand and upgrade their crushing equipment inventories', major names that feature amongst McHale's signings are some of the leading operators in the UK quarrying and aggregates sectors.

Names include USA, Ireland and UK giant, Breedon, and well-known Welsh contractors Jones Bros of Ruthin. Others are Wordsworth of Barnsley, Cornwall's Goonvean Aggregates, Gallagher of Maidstone, and Bristol-based Kelston Sparkes.



Confident that the UK economy will continue to strengthen, McHale estimates that the current year will be an improving one across the industry.

In anticipation, their recruitment programme continues, one important capture being their appointment of ex-CRH and Roadstone staffer, James Cliffe as Company Manager UK.

Highly qualified in the field of aggregates and quarrying, Cliffe will operate from their Tamworth HQ where he will have overarching responsibility for all aspects of McHale's UK operations, a role its chairman, Michael McHale says: "will include on-going contact with all key customers in the Metso owners network".





Forest Line Dealers for UFKES Greentec

Doyle Machinery Limited has recently acquired a major dealership, enhancing our selection of products and reaffirming our dedication to being 'The Home of Great Machinery'. For Doyle Machinery Limited's latest venture, we are expanding our services to offer a variety of machinery tailored for the Arboriculture and Forestry industry.



We are thrilled to share that we have become the Dealers for UFkes Greentec, offering the Forest Line range of wood chippers, stump grinders, and attachments.

UFkes Greentec, established by Jippe Ufkes in 2004, initially specialized in selling and servicing woodchippers, stump grinders, wood cranes, and tree cutters from various brands in the forestry and landscaping sector. Shortly after, Jippe ventured into creating his own line of machinery, leading to the company's remarkable success.



The machinery from UFkes Greentec stands out for its durable construction, advanced technology, easy maintenance, and tailor-made solutions.

As the Forest Line Dealer, we offer Wood Chipper models up to 90cm and up to 900hp. Each designed to exceed your expectations and enhance your business productivity. Known for "Technical innovations for efficient solutions, that's Ufkes Greentec!"

We are delighted to welcome a new brand to our machinery portfolio and collaborate with UFkes Greentec to expand their dealer network, in collaboration with Mark Jibson, UFkes Greentec UK, who serves as the Park Line Dealer throughout the UK.

Contact our team today for further details on the product range or visit our website to learn more

Tel: 03330433322

Email: sales@doylemachinery.co.uk

<https://doylemachinery.co.uk>

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Looking back, driving forward

LIEBHERR will roll into Hillhead in its 75th anniversary year, showing no signs of slowing down in the drive for innovation that has underscored its progress since the very beginning.

That pioneering spirit will be underlined by the latest electric machines and progress in hydrogen technology, with experts on hand to outline the company's plans for an emissions-free future.

A team of sales managers and product specialists will provide information on the latest range of market-leading, fuel-efficient equipment, associated digital technologies and service and warranty options.

The company is assembling a static line-up to represent its comprehensive range of dozers, tracked excavators, dumptrucks, telehandlers, truck mixers and wheeled loaders, including the newest battery/electric design and hydrogen engine.

Elsewhere, machines from the Liebherr Rental fleet will be in working mode at the quarry face and representatives from the used equipment and after sales divisions will be available throughout the three-day event.

We look forward to welcoming you and sharing our 75 years of ground-breaking expertise.





CMS Cepcor: Beyond the Surface

Introduction to CMS Cepcor

When encountering CMS Cepcor for the first time, customers often find themselves taken aback by the company's size. The prevailing sentiment—“I didn't realise how big CMS was”—is a common phrase stated by visitors to the UK facilities, which include the company's Headquarters, Manufacturing Facility, and Global Parts Storage Facility. This initial reaction prompts a closer look at CMS Cepcor's recent advancements and accolades, highlighting the company's substantial scale and prominent presence in the industry as the leading aftermarket manufacturer and supplier of spare parts.



Company Overview

Established in 1960, CMS Cepcor has a workforce of 180 employees globally, with 140 stationed at its Headquarters in Coalville, Leicestershire. Demonstrating expertise in delivering high-quality products and services worldwide, the company has solidified its position as a trusted supplier in the mining and aggregate sectors. CMS Cepcor's commitment to customer satisfaction, combined with its pursuit of operational excellence, has facilitated its expansion across continents and the cultivation of enduring client relationships in diverse markets.

Improvements and Innovations

One aspect of the business that consistently impresses is its manufacturing facilities, which demonstrate both remarkable capabilities and a commitment to precision engineering. CMS Cepcor's recent acquisition of a state-of-the-art Coordinate Measuring Machine (CMM) marks a significant leap forward in inspection capabilities. This cutting-edge device facilitates



precise measurements by autonomously guiding a probe to predetermined positions on objects, following instructions from inspectors via computer software.



The CMM's primary advantage lies in its unparalleled accuracy and repeatability, measuring down to an astonishing 2 microns (0.002 mm) compared to Portable CMM Arms' 40 microns (0.04 mm). This heightened precision ensures that every component supplied by CMS Cepcor adheres meticulously to relevant specifications, consistently meeting rigorous quality standards.

By bolstering inspection capabilities, CMS Cepcor instils greater confidence in customers and suppliers, enhancing its reputation and fostering strong partnerships. Moreover, the CMM offers exceptional repeatability, executing semi-automated inspection programs akin to CNC machines. This efficiency allows inspectors to allocate their focus to other critical tasks while the CMM seamlessly conducts its functions, exemplifying CMS Cepcor's dedication to precision engineering.

Recent Accolades



CMS Cepcor's commitment to excellence has earned it a prestigious King's Award for Enterprise in International Trade. This esteemed accolade, announced on May 6th, recognises the company's outstanding growth in overseas sales, marking the third time in its history that

it has been honoured for excellence in global business operations. Previous acknowledgments include the Queen's Award in 2012 and 2019, underscoring CMS Cepcor's dedication to engineering excellence, product quality, and high levels of customer service.

Matthew Weare, Group CEO, expressed delight at receiving the award, attributing it to the collective effort and investment made by the entire team. With group revenue projected to surpass \$100 million for the first time, CMS Cepcor is poised to capitalise on its export successes in existing markets while planning for further growth in new territories, positioning the company for an exciting future.

Future Plans

While CMS Cepcor's undeniable scale might occasionally fly under the radar, the company is determined to change this perception. To address this oversight, the company is launching an innovative marketing strategy, debuting at the Hillhead Exhibition 2024. The campaign, aptly named "Wait for Nothing," seeks not only to solidify the brand's presence but also to firmly establish its status as the industry's premium aftermarket parts supplier.

Extensive research has revealed that CMS Cepcor stands out for its fast response times, setting it apart from many competitors in the field. At the heart of the campaign lies a humorous and slightly exaggerated video series depicting a quarry manager accustomed to enduring long waits for spare parts. However, a whimsical turn of events occurs when a large blue crate, stamped with the slogan "Wait for nothing," unexpectedly appears beside him, disrupting his day—a creative illustration that captures CMS Cepcor's proactive service and reactive response time to reduce downtime and keep their customers crushing.

With this campaign, CMS Cepcor seeks not only to change perceptions but also to redefine expectations, ensuring that its reputation aligns with its true scale. Beyond the surface, CMS Cepcor continues to innovate, excel, and lead the way in the global aftermarket parts industry.

Experience the CMS Cepcor difference at Hillhead 2024! Visit Stand E25 and take on the Batak board game to witness their rapid reactions—a playful representation of CMS Cepcor's dedication to efficiency and reliability. Challenge yourself against the industry's leading aftermarket parts supplier. Dare to test if you are faster than your supplier?





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Rapid International and Rapid Power Generation to Showcase Cutting-Edge Solutions at Hillhead 2024

Rapid International Ltd and its sister company, Rapid Power Generation Ltd, are gearing up to make a significant impact at Hillhead 2024, the UK's largest trade show for the quarrying, construction and recycling industries, set to take place in Buxton, UK, on 25-27 June.

As industry leaders in mixing technology and power generation, Rapid International Ltd and Rapid Power Generation Ltd will co-exhibit at Hillhead 2024, offering attendees a glimpse into their latest advancements and solutions. Rapid's GB sales partner, Concrete Technology Ltd, will also share the stand, offering expert mixing technology solutions to customers located in mainland UK.

Rapid will exhibit the enhanced Trakmix 250 track-mounted mobile continuous mixing plant. This ground-breaking plant revolutionises on-site material production with its unmatched efficiency, flexibility, and reliability for every mixing application.

Trakmix offers ultra-mobility via tracks, delivering fast, high volume mobile continuous mixing technology for a wide range of sites and applications. Producing up to 250 tonnes per hour, Trakmix is fully self-contained and can be set up and mixing in a matter of hours. Offering full weighing of all materials, Trakmix provides unrivalled accuracy and accountability.

In addition to showcasing the Trakmix 250, Rapid will also be announcing the rollout of new products in both their continuous mixing and concrete batching ranges. Launching in Q3 of 2024 and extending into early 2025, these new offerings underscore Rapid's commitment to innovation and meeting the evolving needs of the industry.

"We are delighted to be exhibiting at Hillhead again. Our participation in Hillhead 2024 reflects our dedication to pushing the boundaries of innovation and delivering exceptional mixing technology solutions to our customers," said Jarlath Gilmore – Sales & Marketing Director at Rapid



International Ltd. "We are excited to introduce our latest advancements and engage with industry professionals to drive progress and foster collaboration."

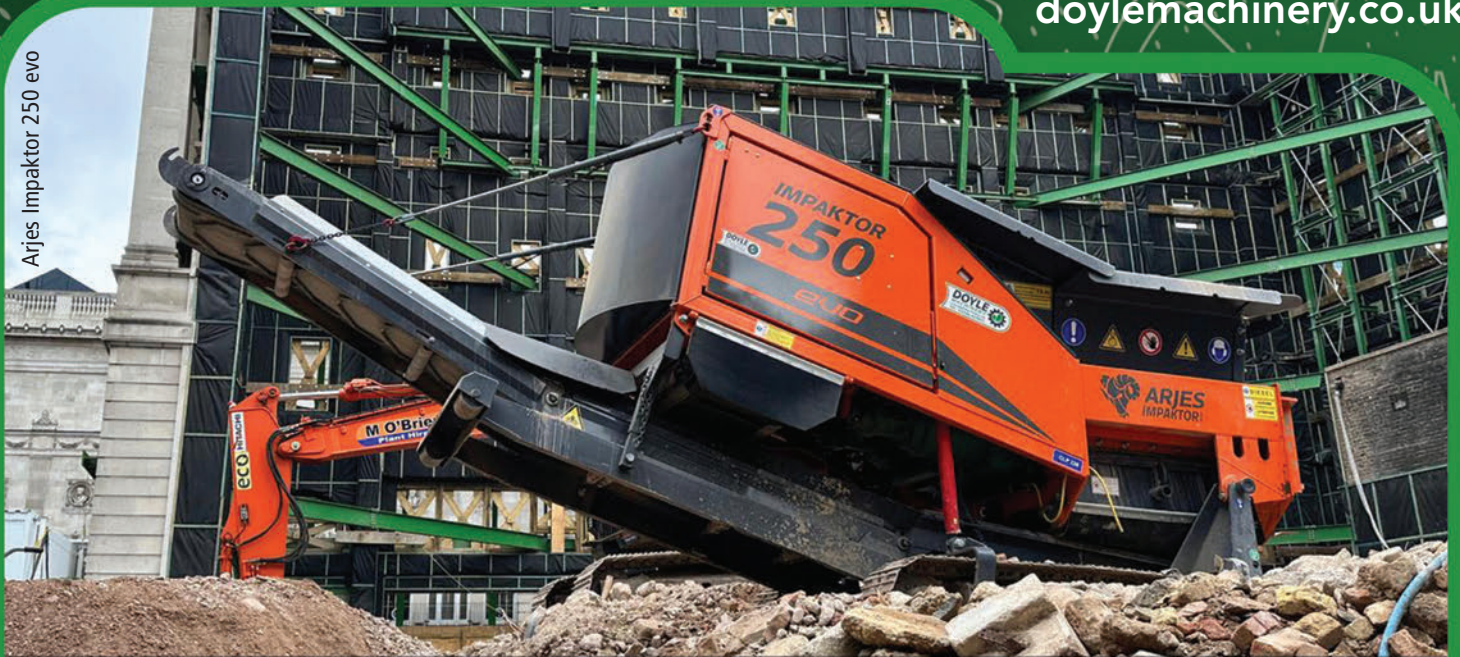
Alongside Rapid International Ltd, Rapid Power Generation Ltd's exhibit will feature a 160kVA Stage 5 Deutz genset equipped with a Mecc Alte alternator and Deep-Sea Electronics controller. This state-of-the-art generator exemplifies Rapid Power Generation's commitment to providing reliable, high-performance power solutions.

Hillhead 2024 promises to be an unparalleled opportunity for networking, learning, and exploring the latest trends and technologies shaping the future of the industry. Rapid International Ltd and Rapid Power Generation Ltd invite attendees to visit their exhibition stand to discover how their cutting-edge solutions can empower their projects and businesses.

For more information about Rapid International Ltd and Rapid Power Generation Ltd, visit their respective websites at rapidinternational.com and rapidpowergen.com



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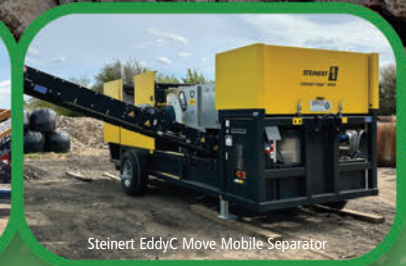
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At Doyle Machinery, our commitment to excellence drives us to provide top-of-the-line mechanical handling and processing machinery to various industries in the UK and Ireland. With a focus on Recycling, Construction, Scrap Metals, Demolition, Quarrying, Energy, and Ports, we aim to meet the diverse needs of our clients.

By partnering with world-renowned OEM brands like Arjes Eurec GmbH, Willibald GmbH, UFKES Greentec Forest Line, Magni Telescopic Handlers, Barford Equipment, Steinert Separators, Menart Equipment, Sibilia, and Dupuy Industrial Vacuum Systems, we ensure that our customers receive the highest quality products and solutions available in the market. Our range of machinery is designed to enhance efficiency, productivity, and sustainability across various sectors, making us a trusted partner for businesses looking to elevate their operations.

Doyle Machinery prides itself on our expertise, reliability, and customer-centric approach. We are dedicated to delivering innovative solutions that empower our clients

to succeed in their respective industries. With a focus on quality, performance, and customer satisfaction, we are committed to being the premier choice for all your mechanical handling and processing machinery needs.

Doyle Machinery Limited will be showcasing at Hillhead this year at Stand D17 where you can explore our wide selection of machinery on display. Our Area Sales Managers will be there to assist you with any questions you may have, or simply to share a friendly chat over a drink or two. We are committed to providing top-quality machinery and excellent service, and we look forward to showing you why we are 'The Home of Great Machinery'.

Come join us and experience the Doyle Machinery difference first hand.



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MB Crusher at Hillhead 2024 - Let the show begin!

Grapple and Padding Bucket will be demonstrated at stand A32

If you are wondering yes, we are stealing from Bonnie Taylor lyrics, for a good cause. Because we are setting up this year's show with the mantra "If we do not remember anything - We'll sure remember this".

We moved location from the last "scorching" edition. Although people do expect us Italians to be able to cope with the heat, we preferred to relocate to the top of the quarry, so attendees do not have to embark on a quest to come to see the MB Crusher units in demo. We will be at stand A32, and we will be demonstrating a grapple and a padding bucket, we will deliver immersive demonstrations that highlight the capabilities setting MB Crusher apart in the industry. We want you to remember us!



****Innovative Solutions on Display****

MB Crusher's booth at Hillhead will feature units from both the compact and heavy line, presenting a diverse range of products tailored to meet the evolving needs of the industry. With solutions designed to seamlessly integrate with diggers, skids, and loaders, MB Crusher offers versatility that stands out. Companies seeking to enhance their fleet's capabilities are encouraged to visit Stand A32.

In the dynamic world of groundwork, having the right tools can make all the difference in efficiency and productivity. MB Crusher, a leader in innovative crushing and screening solutions, offers two game-changing attachments – the Padding Bucket and Sorting Grapple – let us delve into the distinct advantages these cutting-edge tools bring to the table and why you should come to see them working at stand A32

Streamlining Material Handling

MB Crusher's Padding Bucket redefines the process of handling materials at the site, its versatility ensures that it can be seamlessly integrated into any fleet, providing a customizable solution for different projects. From landscaping to pipeline construction, the Padding Bucket is a versatile asset that adds value across a spectrum of applications, the MB Crusher's unique system allows the operator to purchase one unit and several interchangeable shafts, having just one tool that can carry out different task means streamlining operations which translate into seamless workflow, minimizing downtime and maximizing productivity on the job site.

Efficient Material Handling

In the modern day fast paced environment we all need an extra set of hands. Let us introduce you to the Sorting Grapple from MB Crusher: a game-changer when it comes to efficient material handling. Designed for precision, this grapple allows operators to pick, sort, and place materials with ease. Its robust construction ensures durability, making it a reliable tool for demanding job sites. Moreover, each unit can be accessorized to satisfy any type of job.



**** Meet the Team ****

Engage with MB Crusher's team of experts at Hillhead 2024. The knowledgeable staff will be available to discuss the features, benefits, and applications of MB Crusher's latest offerings. This interactive engagement aims to provide attendees with a comprehensive understanding of how MB Crusher can significantly improve their operations.

In response to the growing demand for its groundbreaking products, MB Crusher is thrilled to announce the nationwide availability of its innovative solutions for immediate delivery. This expansion ensures that customers across the country can swiftly access MB Crusher's transformative machinery.

****Stay Connected****

For those unable to attend Hillhead in person, MB Crusher is committed to keeping the global audience informed. Subscribe and follow live updates on social media platforms for exclusive behind-the-scenes footage and interviews with key figures from MB Crusher.

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McHale Plant Sales turns spotlight on Nordtrack range

Building on their brief as UK distributors of Metso crushers, McHale Plant Sales is turning a spotlight on Nordtrack crushers, screens, and conveyors, described by them as ‘another important product range that falls under the Metso umbrella’ and for which they also have UK-wide sales and distribution responsibility.



Launched by Metso in 2019, Nordtrack has grown to occupy an important space within the Finnish company’s mobile equipment offering.

Within the line-up, the S4.9 mobile screen is being promoted by McHale as “a recommended stand-alone purchase, and as a ‘partner product’ in trades where Metso Lokotrack is the chosen crusher”.

Built to handle high volume aggregates screening, the high capacity S4.9 has the benefit of mobility, being easy to transport and move within and between worksites.

Described by McHale sales director, Denis McGrath as “an overriding consideration in applications where time, productivity, and cost are ‘paramount’, the ability to transport

a machine from A to B and put it to work with minimum fuss and delay is, he says: “a number one consideration in the minds of buyers”.

“When needed, the flexibility of being able to boost screening capacity, quickly and with minimum delay, has become a ‘no brainer’ for buyers” McGrath adds.

“With its 3-deck screen box, three large screening decks, efficient feeding system, better safety and ergonomics, and optional dust suppression system, the easy-to-fold, easy-to-move Nordtrack S4.9 delivers high performance screening, whether of aggregates, sand and gravel, or organic matter’ he said.

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Supplying Complete Solutions - MB Wilkes

Early last year MB Wilkes decided to upgrade one of their plants in the Southeast of England. Initially a plan was put in place to utilise two second-hand screens, but after a closer review of these machines it was decided that new screens were a better route to go down.

The decision was made to upgrade the two existing screens with two made to measure Hewitt Robins 16' x 6' double deck screens. However, the site had already started to purchase media for the original second-hand screens, therefore careful co-operation between SCS and Hewitt Robins was needed to ensure that the screens were designed to use the screen media already purchased.

It was agreed with site management that it would be easier for SCS to take charge of all elements of this project regarding the screen media. This involved co-ordinating design requirements with Hewitt Robins, calculation of shortfalls in the media already supplied, and lastly installation of the modular systems. Thus, ensuring the screens were ready to install once delivered to site.

As the two new screens were ready and waiting to be installed at site, misfortune hit; the sites tertiary screen had a serious failure. A quick decision by MB Wilkes was made, to replace the screen and media utilising the same two suppliers that

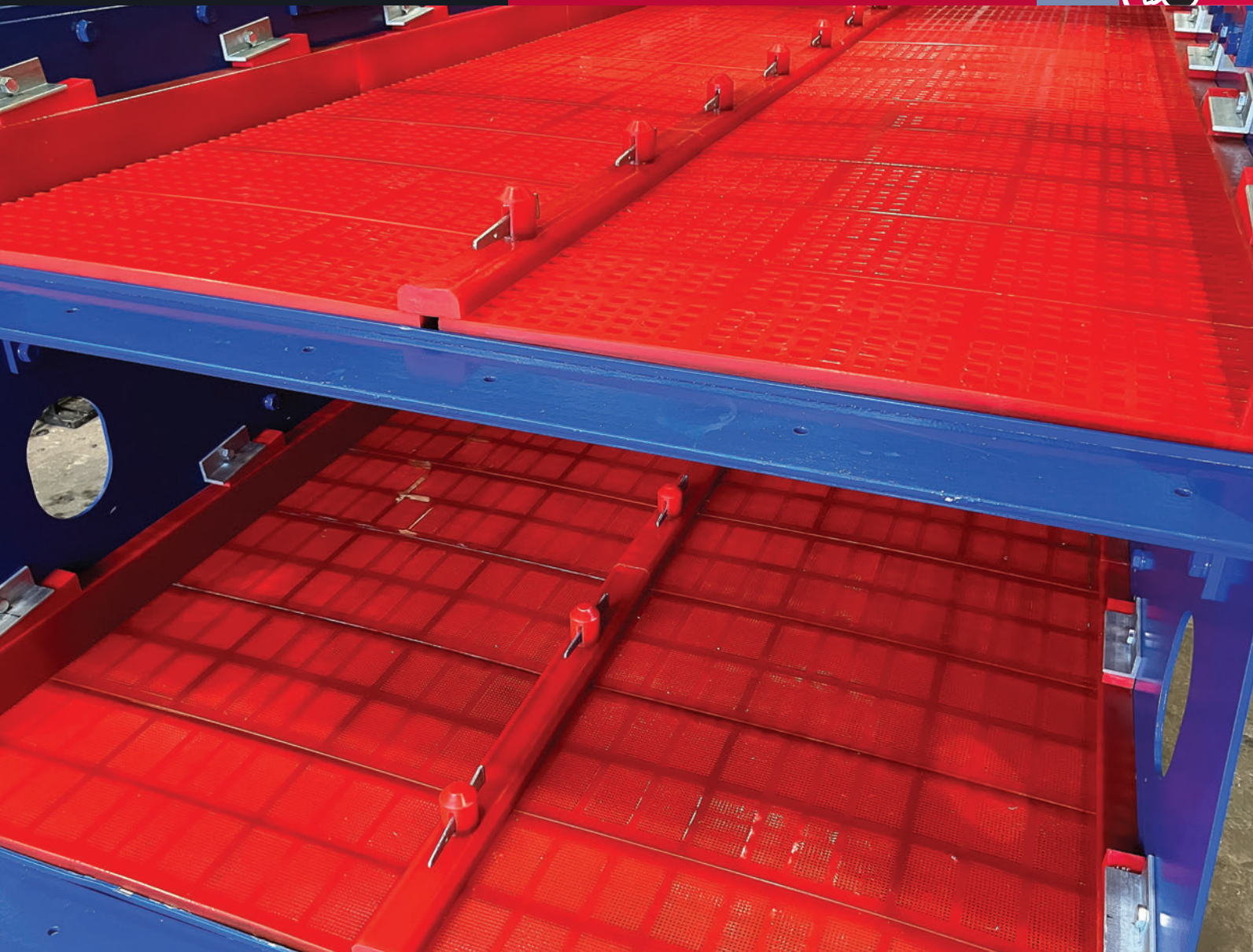
had already successfully delivered the first two replacement screens.

By some sensible forward planning the tertiary screen was able to utilise all the same common parts and same size of modules as the first two replacement screens. This means that the number of spares required for the plant has been kept to a minimum. Attention to detail such as this leads to an uncomplicated and efficient screen media installation.

SCS's expertise in the design and manufacture of synthetic screen media, places them as one of the leading suppliers within the quarrying industry. The fact that SCS's polyurethane products are also designed and manufactured within the UK gives them a distinct advantage in the supply chain process.

When specifying a polyurethane modular system, several factors are taken into consideration, including application, screen design, aperture shape and size. SCS have the capability to design modular systems to suit multiple types of screens with different grading applications.

Modules are one of the many products that SCS specialises in along with rubber screen media, wear resistant liners, scrapers and various other screen accessories. SCS also supply key ancillary products to the quarrying and recycling industries with exceptional delivery times.



SCS's full range of products will be exhibited at our Hillhead stand Q9 in June. If you are looking for technical advice, a tailor-made solution for your screening or lining requirements, or further information, come and visit the SCS stand where our team will be happy to show you how SCS goes above and beyond for our customers. Or contact us today on 01788 553300.





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STAND
PD19



VEGA



Ulrich goes B, C and F at Hillhead 2024

Attachments manufacturer Ulrich will showcase buckets, couplers and forks at Hillhead.

The UK's leading manufacturers of bespoke attachments for mobile plant machinery, Ulrich Attachments, will showcase its heavy-duty buckets, ISO hydraulic quick couplers and specialist XL pallet forks at Hillhead 2024 (stand W18).

Ulrich's portfolio, which includes heavy-duty rock buckets, rock forks and Simplex 4in1 buckets, all available with a range of set-ups, with and without teeth, and with specialist spill guards, was specifically designed to increase the versatility of plant equipment.

The Aylesbury-based company has been at the forefront of the design and manufacture of High Tip high discharge buckets for loading waste and light material into high-sided walking floor

trucks and hoppers, and a 11m³ wood waste High Tip showcase of this will take centre stage on a wheeled loader on Ulrich's stand at the show.

Also on W18 will be hydraulic quick couplers, general purpose and refuse clamp buckets, which feature a heavy-duty clamp assembly specially designed to withstand the rigours of waste transfer duties, and specialist pallet forks.

Ulrich's large, well-stocked warehouse at its HQ in Aylesbury operates rapid response for spare parts supply and aftersales support – a feature that has gained the company an enviable reputation for getting the right part to the right place in the right time.



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As bitumen system regulations evolve under HSE and DSEAR, ensuring compliance is paramount. Explore VEGA's comprehensive range of ATEX/UKEX approved sensors and panels, tailored to meet the newest explosion protection standards.

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Reliable Level Measurement for solids and liquids level control and indication: From our latest, THE 6X® a new generation of radar sensor, to our highly affordable, non-contact radar sensors for level measurement for silos, stackers, tanks, and IBC's. They are using the latest technology, with no loss of echo from filling, dust, or fumes, yet with the simplest selection and set up.

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Point level switches: high and low-level detection for silos and tanks



Non-contact blockage and object detection: Safe, microwave based, from conveyors, chutes and hoppers to trucks and equipment safety.

Our dedicated team is ready to showcase our comprehensive solutions for all budgets and requirements, with the added assurance of our UK 3-year warranty. Backed by excellent on-the-ground service, our knowledgeable team is available to address your queries and provide expert guidance. Experience the ease of instrumentation setup and operation, designed to streamline processes for quarry operations.

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WEIR



Why use concrete blocks for building storage bays

Often used within quarries, waste and recycling facilities and within the agricultural sector, precast concrete block storage bays keep materials, such as sand, gravel, compost, metal and plastics safe and secure and cuts dust emissions onsite.



With users needing storage bays built quickly to withstand harsh and aggressive environments, including the constant use of heavy machinery and British weather conditions, the interlocking blocks, such as those manufactured by Elite Precast Concrete, allow installers to easily adjust and expand storage bays as their needs change.

Complying with relevant standards, interlocking concrete blocks are available nationwide at short notice, but what else can the Elite system offer users and installers?

Proven fire-resistance - Manufactured to A1 fire-resistant classification, installing storage bays built from concrete blocks limits fire and can be used within stakeholder's fire protection plan (FFP).

Strength - Known for durability, the interlocking blocks are cast from high strength (50n/mm²) concrete.

Sustainability - with a design life of over 100 years, concrete interlocking are built to last, by manufacturers who choose materials that are responsibly sourced, in factories that are energy efficient and environmentally friendly.

Installing storage bays can also cut CO₂ by cutting the transportation and processing of materials and keeps the risk of rot to a minimum.

Flexibility - The interlocking blocks can be used throughout your facilities, for applications including flood defence, salt barns, waste and recycling units, storage bays, aggregate bays and retaining walls. Legato®, Duo™ and Vee™ blocks are dry laid without the need for any fixing materials, meaning they can be moved and re-laid at any time.

Freedom - Because of this, the 'lego' style can be adjusted to suit your storage capacity needs or transferred to a different site and rebuilt.

Installation - interlocking blocks, such as the Legato®, Duo™ and Vee™ range have a cast-in lifting pin for offloading, with a suitable machine with a chain and hook. This means the blocks can be easily moved and re-configured should you need too.

Choice - With the smallest bay block weighing 750kgs and the heaviest 2,400kgs, the Elite Precast range has blocks has options for users to build storage bays of all sizes.

If you want to know more about interlocking blocks, visit the Elite Precast Concrete website or call the team on 01952 588885 and find out which concrete blocks will suit your site best.





McLanahan continues to support aggregate customers across the UK and Europe

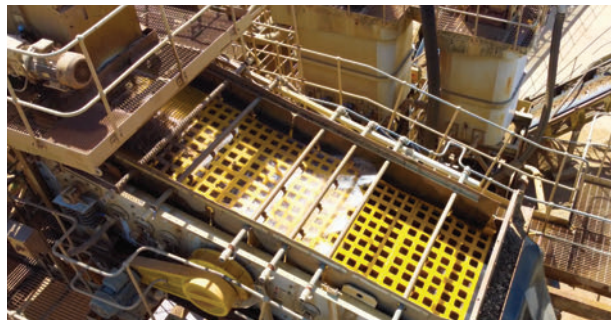
McLanahan is continuing to support aggregate customers across the U.K. and Europe with wet and dry processing solutions for natural sand and gravel applications and for recycling aggregate from C&D debris streams. With compact, modular plants for rapid deployment and fast setup on site as well as bespoke equipment tailored for specific applications, McLanahan ensures producers get the right solution for their processing needs.

One example that highlights McLanahan's commitment to its customers is the recent sale of an UltraWASH Modular Wash Plant and UltraCRUSH Modular Crushing Plant to Cemex, one of the U.K.'s largest aggregate producers. McLanahan's process engineers and design engineers worked closely with Cemex on the design of the plant to ensure it was the right solution for the Shepperton, U.K., site.

The plant features an UltraWASH consisting of a feeder, primary rinsing screen, slurry pumps, hydrocyclones, dewatering screens and product conveyors. The raw aggregate material will be introduced into the primary rinsing screen by the feeder. The primary rinsing screen will separate the feed into 20 mm and 10 mm sizes and discharge them onto corresponding product conveyors for stockpiling.

Any material over 20 mm will be directed to the UltraCRUSH Cone Crusher to be reduced in size before being recirculated back into the UltraWASH for further processing.

The sand fraction, along with the water from the primary rinsing screen, will fall into a sump underneath the screen, from where the slurry will be pumped up to a bank of hydrocyclones. The hydrocyclones will classify the material to meet the required specifications by separating out fines and silt from the product-sized sand. The sand will discharge from the hydrocyclones onto a dewatering screen to remove excess moisture before stockpiling.





The McLanahan UltraWASH and UltraCRUSH plants will allow Cemex to produce essential building materials to support local infrastructure demands.

"We are proud to be continuing to form strong relationships in the U.K. with companies like Cemex, and we look forward to seeing where this partnership can take both companies," said Donal McNicholl, McLanahan's Director of Sales for the U.K and Ireland.

McLanahan is also committed to supporting customers who need bespoke solutions, whether for new builds, plant upgrades or retrofitting equipment into existing setups. An example of this can be found in just one of McLanahan's many recent screen sales.

New Milton Sand and Ballast needed to replace a primary rinsing screen that had reached the end of its usable life, but the company did not want to change the main frame on which the screen was installed.

McLanahan engineers worked with New Milton Sand and Ballast to design an Inclined Screen that was tailored to fit into the existing plant structure. They also interviewed New Milton Sand and Ballast about its pain points with the old screen to determine how to best design the screen to meet the company's needs.

The solution was a 1.8m x 5m double-deck Inclined Screen outfitted with spray bars on the top and bottom decks that were tailored to alleviate challenges New Milton Sand and Ballast had with its old screen.

One of these challenges was the clearance between the screen decks, which made changing the screening media a hassle.

McLanahan increased the clearance between the top and bottom deck to improve maintenance access for New Milton Sand and Ballast.

Another issue the company had with the old screen was increased wear from the sand slurry mix hitting the first few panels of the screen media on the bottom deck. McLanahan decreased the aperture size in the first few panels to allow for even wear.

McLanahan also increased the aperture size of the spray nozzles so that they wouldn't clog up from the grit and organic matter in the recycled water New Milton Sand and Ballast uses for rinsing the aggregate on the screen.

It was these and other screen design updates reflecting McLanahan's commitment to supporting its customers that impressed New Milton Sand and Ballast the most throughout the project.

Besides supporting customers throughout the design, installation and commissioning phases, McLanahan also provides after-sales service and support for the lifetime of the equipment. This after-sales support includes everything from supplying spare parts, to sending technicians to perform plant audits and make recommendations for operational improvements, to offering field service assistance for component repairs or replacements.

Visit McLanahan at Hillhead, Stand J4, in June to learn more about the company's commitment to supporting aggregate producers in the U.K. and Europe and to see McLanahan's UltraSCRUB Modular Scrubbing System on display.

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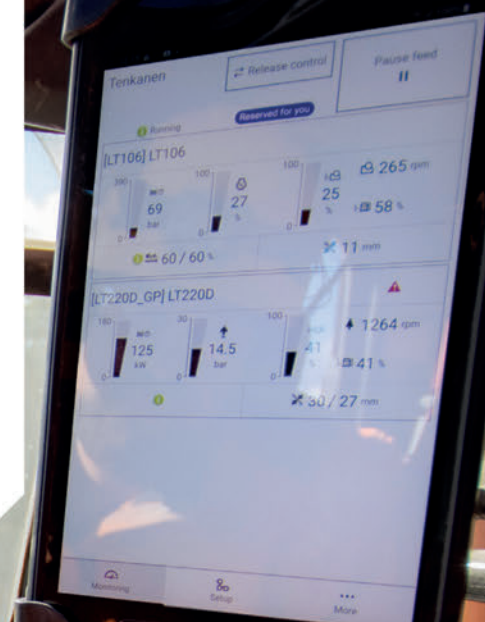
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Improve the productivity and safety of your Lokotrack® site with the Metso Remote IC app. With this app, you can control the entire aggregate crushing and screening process wirelessly and from a single dashboard. The app allows you to monitor each Lokotrack crusher's cavity load and levels as well as adjust the feeding accordingly for the highest possible average production.

The app also enables you to stop the feed from the excavator, reducing the need to step out frequently and lowering safety hazards at the site. With the overall visibility of the main process parameters, ability to change the crusher settings, and pause the feeding, the productivity gets to a whole new level.

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Eriez is a global leader in separation technologies

Eriez | Stand: F7

Established in 1942, Eriez is a global leader in separation technologies. A commitment to innovation has positioned Eriez as a driving market force in several key technology areas, including magnetic separation, flotation, metal detection and material handling equipment. The company's 1,000+ employees are dedicated to providing trusted technical solutions to mining, food, recycling, packaging, aggregate and processing industries. Headquartered in Erie, Pennsylvania, USA, Eriez designs, manufactures, and markets on six continents through 12 wholly owned international subsidiaries and an extensive sales representative network.



Today, Eriez produces more than 1,000 types and sizes of magnetic, vibratory, and metal detection equipment. These

solutions are primarily used to detect and remove ferrous contaminants which can damage process equipment and affect product quality; to concentrate valuable material; to recover ferrous and non-ferrous metals from recycled materials; to automatically take representative samples of bulk and slurry materials to ensure industry and/or customer quality standards are met; and to solve material movement, separation, detection and classification problems.

Eriez understands the importance of reliable separation for the quarrying, construction and recycling industries and offers an extensive range of custom or stock equipment, specialising in a vast range of Suspended Permanent/Electro Magnets, MetAlarm metal detectors, Vibratory Feeders and Eddy Current Separators to reliably separate and move materials and protect expensive equipment from costly damage caused by tramp metal.

www.eriez.eu

Red Knight 6 showcase all their partners



This year Red Knight 6 will be showcasing all of their partners at the Hillhead show.

On the stand you will be able to get up close with machines from Rubble Master, Komplet and TrommALL, whilst the

demo area can be viewed from our fantastic new, purpose-built hospitality unit.

We will also be supporting our other partner brands, MDS, EDGE Innovate and IMS at the show.

Stand No J7



Telestack are set to showcase Innovative Material Handling Solutions at Hillhead 2024 and launch a new Telescopic Radial Stacker to the market!

Telestack, a global leader in Material Handling solutions, is set to make a significant impact at Hillhead 2024, the premier showcase event for the quarrying, construction, and recycling industries, with the launch of its latest game-changing product, the TSR40 radial telescopic conveyor. Designed to redefine the landscape of the quarrying sector, the TSR40 radial telescopic conveyor represents a quantum leap forward in road transport for radial telescopic conveyors, especially in areas with restricted road access in relation to permits and special loads.

Carl Donnelly, International Sales Manager, Telestack explains, "This is a major issue with Radial Telescopic units as these are typically transported in euro-liners or containers and then built-up on site with cranes – which ultimately means extra costs in labour, vulcanising and the extra time needed for setup. This new TSR 40 eliminates this transport problem, as this unit can be transported the same as any normal RORO Tracked Mobile Unit. This unit can be transported at a width of 3.0m (9ft 10") x height of 3.5m (11ft 5") x length of 23.2m (76ft 5"), so it is very easy to transport within many road networks, especially in strict areas of Europe, for example. With the freedom to move without restrictions, the TSR40 promises to empower quarry owners / operators to solve the transport problem like never before."

Telestack are renowned in the industry for having the "The World's largest conveyor range" with solutions suitable for the Quarrying & Aggregates, Mining, Ports & Inland Terminals, Heap Leaching, Cement, Stockyard Management, Steel Production and the Off Shore Windfarm sectors.

The TSR40 utilizes the very best of Telestack technology including the integrated PLC stockpiling system. This eliminates the segregation, degradation, contamination, and



compaction of material maintaining the quality of your product during the stacking process. In line with its fellow radial telescopic range, the TSR 40 allows for up to +30% larger stockpile capacity when compared to conventional fixed length conveyor systems with the added benefit of increased site mobility and the minimal civils' and planning permission required. Its lattice frame design allows it to automatically stockpile from secondary crushers, screeners and fixed conveyors. A key feature of this unit is the ability to be driven electrically, diversifying away from the standard diesel hydraulic systems. This feature also allows the operator to plug in their own 3 V Phase power if available on site, lowering their fuel consumption further and overall carbon footprint. The TSR40 is all an 'All Electric' driven unit complete with an integrated diesel electric generator built into the chassis to power all functions of the unit, both tracking and conveyor drives operation.

Donnelly continues, "We're thrilled to introduce our latest product to the market. As a leading OEM in the material handling sector, we take pride in our commitment to listening to our dealers and customers, designing and manufacturing innovative solutions that address market needs. The TSR 40 is a prime example of this ethos. With Europe leading the charge in electric units, particularly due to increasingly stringent regulations on engine standards, our 30 year track record of offering electric conveyors speaks volumes about their effectiveness."





Over the last few years, the quarrying and aggregate industry have had to reassess its stance on environmental, social, and governance responsibilities, prompting a shift in their approach. At the forefront of this transformative journey in the material handling sector are Telestack, a key OEM driving the change towards sustainable practices.

Use less fuel to move more material

For more than thirty years, Telestack has been delivering electric-powered conveyors to both mobile and static applications across diverse industries, including quarries, mines, and ports, where electrically powered units are commonly the preferred choice. "We are thrilled to participate in Hillhead 2024 and showcase our latest innovations in material handling technology," said Carl Donnelly,

International Sales Manager at Telestack. "As pioneers in the industry, we remain committed to pushing the boundaries of what's possible, empowering our customers to achieve new levels of efficiency and success."

The Heavy Duty HF24T Hopper Feeder

The Telestack HF24T is a track mounted mobile hopper feeder designed to work at production rates of up to 3000TPH (3300 Ton per hr.). Telestack's tracked Hopper Feeder range is designed to be loaded directly from wheel loaders, grab cranes, excavators and can be used to feed auxiliary equipment, reclaim to other conveyors, directly load ships/barges, trucks and rail wagons. It's track-mounted design ensures exceptional on-site mobility, effectively eliminating the need for double handling of materials, thereby reducing operational costs and preserving product quality. With a versatile range of power options including; Diesel, All Electric, Dual Power, and On-Board Generator, the HF 24T offers adaptability to diverse operational requirements. Furthermore, its transport-friendly design allows for easy packing into 40ft containers, enabling cost-effective global transportation or shipment via Roll-on/Roll-off (RORO) vessels.

Telestack's team of experts will be on hand to provide insights, answer questions, and discuss how their solutions can address specific needs and challenges. For media inquiries or to schedule a meeting with Telestack at Hillhead 2024, please contact Telestack sales team at sales@telestack.com or visit <https://tinyurl.com/telestack-event-enquiry>

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Visit us at **Stand E11** at Hillhead 2024

Telestack are thrilled to participate in Hillhead 2024 where we will be showcasing our latest innovation in material handling technology. The TSR 40 allows for up to +30% larger stockpile capacity when compared to conventional fixed length conveyor systems and with the added benefit of increased site mobility to that of the standard radial telescopic design.



www.telestack.com



Transforming the Off-The-Road Sector: Introducing Vaculug, the Future of Sustainable Tyre Management

Established in 1950, Vaculug is Europe's largest independent retreader producing high quality OTR and truck retread tyres for fleets across the UK and Europe. As well as this, they offer effective and practical fleet management solutions which are tailored to meet their customers sustainability goals and objectives, whilst offering substantial cost savings.

Over the last few years, Vaculug have focussed their investments on people, processes and their ESG strategy. Sustainability is at the heart of Vaculug's ethos, as they minimise waste, recycle where possible and make efficient use of energy and other important resources. They do this by extending the lifespan of tyres through their retreading process. This reduces the need for new tyre production and thereby conserves resources, as well as minimising waste by giving tyres a second life before disposal.

Alongside manufacturing their own retread tyres, Vaculug are exclusive UK distributors for long standing partners Yokohama (37 years in partnership) and the Magna Tyres Group (17 years in partnership), allowing them to offer their customers a wider range of tyres.

Vaculug work with their customers to maximise the life of the tyre asset. They invest in monitoring every tyre asset throughout its operational life so that they can manage costs and forecast replacement schedules, with the aim of reducing overall machine operation costs and downtime. The different options available include:

Fixed Price Solutions: Based on a monthly fee charged for each machine, ideal for accurate budget management.

Managed Solutions: Based on monitoring equipment over a given time period. This enables data to be analysed in order to predict wear rates, replacement cycles and ongoing costs.

Pay-as-you-go: Customers opt for services as and when they require them e.g. tyre supply, repair or Tyrfil.



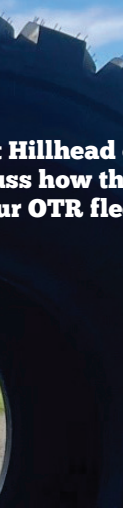
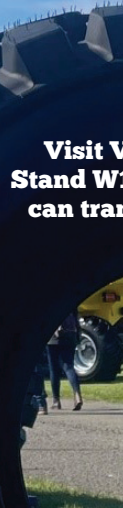
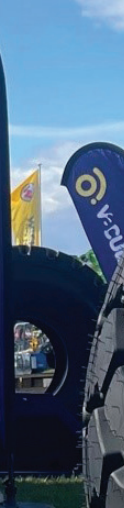
Vaculug have also strengthened their offering by opening a regional distribution warehouse in the south of England, enabling them to distribute stock to customers and contractors. This

gives Vaculug the ability to offer same-day or next-day delivery solutions to their customers.

Vaculug's Off-The-Road team have established themselves as a leader in the tyre industry through a combination of expertise and exceptional customer service. With a focus on heavy-duty applications, their OTR team caters to industries such as construction, mining and agriculture, providing reliable tyre solutions that meet the challenging demands of these sectors.

Michael Evans, OTR and Operations Director at Vaculug added "We now have a market leading team of OTR specialists consisting of four UK Sales Managers, a National Key Account Manager and a OTR & Operations Logistics Manager."

Vaculug will be co-exhibiting alongside Magna Tyres at this year's Hillhead event, which will showcase the latest innovations and advancements in the quarrying, construction and recycling industries. Vaculug and Magna have been in partnership for over 17 years, working together to successfully provide high-quality tyre solutions and exceptional service to their customers.



Visit Vaculug at Hillhead on Stand W19 to discuss how they can transform your OTR fleet!



Metal-Free, Worry-Free

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Investing in a powerful combination of Eriez suspended magnet and MetAlarm detector provides decades of worry-free operation. When it comes to protecting your equipment from dangerous tramp metals, make the right choice. **Invest in the best.**



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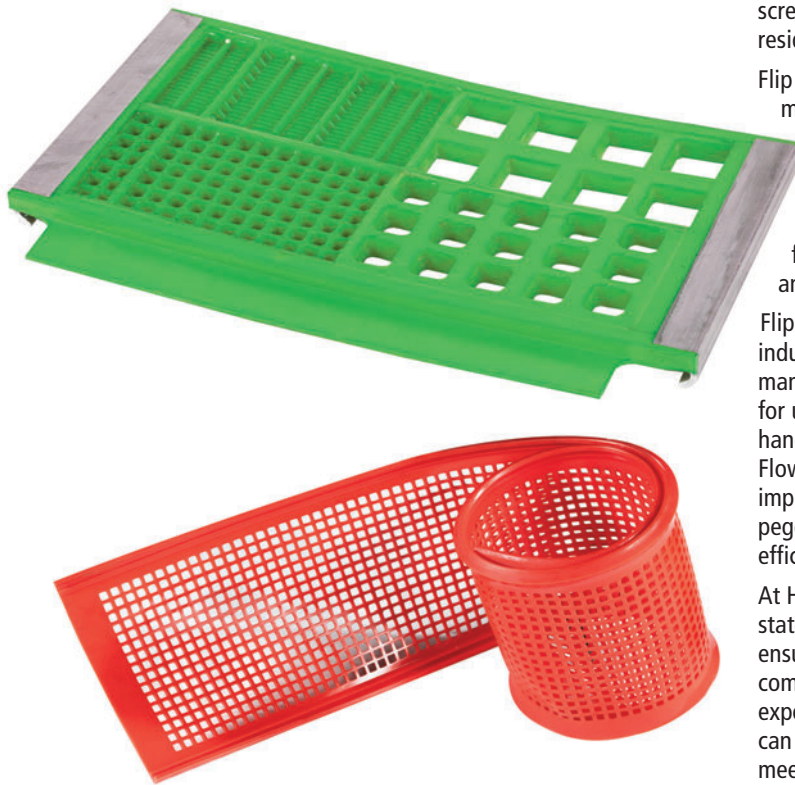
See Us at Hillhead - Stand F7





Material Separation with Flip Flow Screens

Traditional rigid screens are often pushed to their limits when handling difficult materials in industrial screening and separation. Wet, sticky, or fine particles can quickly clog conventional screens, leading to reduced throughput, excessive downtime for cleaning, and decreased operational efficiency. However, Flip Flow Screens, also known as Bivitec, Binder, or Spaleck mats, offer a unique approach to tackling even the most challenging screening applications.



surface to constantly flex and move, the risk of particles becoming trapped or adhering to the screen is significantly reduced. This not only improves overall screening performance but also dramatically minimizes the need for frequent manual cleaning or maintenance, resulting in increased uptime and cost savings.

Beyond their screening capabilities, Flip Flow Screens offer several other notable benefits. They are particularly well-suited for applications where noise pollution is a concern, as their flexible design minimises the impact and vibration associated with rigid screens. This makes them an ideal choice for screening operations in noise-sensitive areas or close to residential or commercial areas.

Flip Flow Screens are available in a range of configurations to meet diverse application requirements. They can be manufactured with square or slotted holes, arranged in inline or staggered patterns, and come with bolted, moulded, or plain edges. Additionally, customisable blank margins further enhance their versatility, allowing for seamless integration into existing screening systems and plant setups.

Flip Flow Screens have been adopted widely across various industries, including mining, quarrying, aggregates, and waste management, among others. They are particularly well-suited for use in wash and Spaleck type plants, where their ability to handle challenging materials is paramount. By deploying Flip Flow Screens, these operations can achieve significant improvements in throughput rates, reduce blinding and pegging issues, and enjoy enhanced overall screening efficiency.

At Harpscreen we supply high-quality Flip Flow Screens. Our state-of-the-art manufacturing facilities, located in the UK, ensure timely delivery and exceptional quality, backed by our commitment to customer satisfaction. With extensive experience and expertise in the screening industry, our team can assist you in selecting the optimal Flip Flow Screen to meet your specific needs.

Flip Flow Screens operate on a fundamentally different principle than conventional rigid screens. Instead of a static, unyielding screening surface, these innovative screens are designed to undulate and flex as material flows over them. This dynamic movement allows smaller particles to effortlessly pass through the screen openings, while larger particles are efficiently separated and discharged. The result is a screening process that is remarkably effective for separating wet, sticky, or fine materials, as well as those with high moisture content – materials that would typically cause significant issues on traditional screens.

One of the key advantages of Flip Flow Screens is their ability to minimize clogging and blinding, common problems that can severely impact screening efficiency. By allowing the screen





SEE US ON STAND
W18

ULRICH

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BUILT TO ORDER

CRAFTING EXCELLENCE, INSPIRING INNOVATION

Discover the ultimate in efficiency and customization with Ulrich Attachments' bespoke solutions. Perfectly tailored for the waste industry and beyond, our range includes specialist waste attachments such as high tip, high tip clamp, and refuse clamp buckets, with capacities from 1m³ to 14m³. Designed to fit all OEM wheeled loaders and

telehandlers, our attachments ensure seamless integration and enhanced performance for your specific applications. Enjoy peace of mind with up to 5 years of warranty and exceptional after-sales support. Choose Ulrich Attachments for unparalleled quality and reliability in every load.



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Quarry Range Centrepiece of First Hillhead Show for Develon

Hillhead 2024 will provide the perfect platform to both display and demonstrate for the first time at the show the latest products for the quarrying and construction industries from Develon, formerly known as Doosan Construction Equipment. The static display on Develon's Stand Z4 will include the DX530LC-7 53 tonne crawler excavator, the DL420-7 wheel loader and the DA45-7 articulated dump truck (ADT). In the demonstration area, further products for the quarry face that will be showing their paces include the DX420LC-7 43.5 tonne crawler excavator, the DL550-7 wheel loader and the DA30-7 ADT.

Among new products being shown for the first time at Hillhead on the Develon stand is the new DD130-7 dozer. Compact equipment is another strong aspect, with the DX27Z-7 and DX55R-7 mini-excavators and DL85-7 compact wheel loader on show. The stand display will be completed by Develon's DX235LCR-7 24.3 tonne crawler excavator.

The DX-7 Range of Crawler and Wheeled Excavators from Develon

The DX420LC-7 and DX530LC-7 are part of the range of large crawler excavators from Develon that also includes the DX800LC-7 80 tonne and DX1000LC-7 100 tonne machines. Overall, all the models in the DX-7 range of crawler and wheeled excavators from 14 to 100 tonne combine enhanced comfort with the latest features to boost fuel efficiency, uptime and return on investment, with a focus on increased power, robustness and agility.



Increased Productivity and Versatility

The DL420-7 and DL550-7 are two of the four biggest standard models in the DL-7 range of wheel loaders from Develon, that also includes the DL480-7 and DL580-7 models. With redesigned buckets offering up to 7% more capacity, these DL-7 wheel loaders provide easier and faster loading with maximum bucket capacities from 4.5 to 6.4 m³. Altogether, the eleven DL-7 wheel loaders in the Develon range with bucket capacities starting at 2.0 m³ provide increased productivity for a very wide range of material-handling applications. >





Best-in-Class Rough and Soft Terrain Performance

The market-leading DA30-7 and DA45-7 ADTs offer payloads of 28 tonne and 41 tonne, respectively. These models feature an articulation hinge positioned behind the turning ring to provide equal weight distribution to the front axle even during maximum steer articulation. This combined with a free-swinging rear tandem bogie ensures equal distribution of weight to each wheel and guarantees permanent 6-wheel contact and drive for equal power distribution and excellent performance particularly on difficult terrains such as soft ground, uneven surfaces, very steep slopes, tight turns or a combination of all of these difficult conditions.

The DA30-7 and DA45-7 6x6 ADTs are now complemented by a new 4x4 version of the DA45-7 ADT intended to compete with rigid dump trucks (RDTs) in the 40-tonne class. In the new 4x4 ADT, the front truck and cab unit is the same as in the original 6x6 model, with modifications being made on the rear dumper unit only.

New High Visibility Dozer

With the launch of the new DD130-7, Develon has entered the European dozer market. The wide range of features on the DD130-7 provides a productive fine-grading solution for residential and light commercial construction projects. One of the biggest differences between the DD130-7 and other brands is the visibility it provides of the machine's dozer blade. To facilitate this, the front engine compartment offers a narrower design and is combined with other features that make it easier for operators to see their work.

For further visibility and safety, a standard rearview camera provides operators with an additional view of the dozer's surroundings. The full-colour, 8-inch Smart Touch display shows the feed from the rearview camera. Also standard are high-illumination LED lights and four premium wiper blades. The DD130-7 offers a high level of comfort with a premium high-quality seat. The seat and joysticks move together via the air suspension system, to absorb all vibrations.



Develon Mini-Excavators

The DX27Z-7 2.8 tonne and DX55R-7 5.7 tonne Stage V compliant models are typical of the new Develon range of mini-excavators from 1 to 10 tonne. The zero tail swing design of the DX27Z-7 and the reduced radius design of the DX55R-7 models make them ideal for confined space work.

The DX27Z-7 is powered by the D17 Stage V compliant diesel engine providing 18.4 kW (24.7 HP) of power at 2400 RPM. The DX55R-7 is powered by the D18 Stage V compliant diesel engine providing 36.4 kW (48.8 HP) of power at 2200 RPM. As a result, these models offer the highest power and torque in their respective classes and cover a wide range of applications including heavy duty work.

New Compact Wheel Loaders

The DL85-7 is one of five compact wheel loaders from Develon, that also include the DL60, DL65, DL80 and DL80TL models, with operating weights from 3500 to 5000 kg. Just like their much heavier versions in the Develon range, these compact wheel loaders set the industry standard for productivity, flexibility, comfort, safety and reliability, with powerful Stage V engines, hydrostatic 4-wheel drive, 100% differential lock on both axles and versatile and powerful hydraulics.

For more on Develon, please visit the website: <https://eu.develon-ce.com/en/>



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BUXTON
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Martin Engineering celebrates 50 years of air cannon technology



Martin Engineering Business Development Manager Mike Masterson and Product Manager Sid Dev working at the Air Cannon test stand at the company's industry-leading Center for Innovation.

The world leader in bulk handling solutions Martin Engineering is marking the 50th anniversary of its invention of the world's first low-pressure air cannon.

Air cannons have transformed material flows in bulk processing systems, eliminating problematic internal buildups and blockages. After five decades of continuous innovation, Martin Engineering remains at the forefront of air cannon advancements, enabling industrial plants to run more profitably, efficiently and safely than ever.

The company launched the world's first low-pressure pneumatic air cannon – its legendary Big Blaster® – in 1974. It was devised and developed by Carl Matson, a member of Martin's senior team and cousin of the firm's founder Edwin F. Peterson.

The patented technology was designed to dislodge stubborn material stuck to the inside walls of hoppers and silos by firing precisely timed bursts of compressed air to keep bulk material flowing and preventing the growth of serious build-ups and blockages.

The air cannon was originally aimed at the same quarrying applications as the legendary Vibrolator®, the Martin-patented industrial ball vibrator on which the company's success had been built since its inception in 1944.

By the 1980s, as Martin Engineering expanded its global presence, the Big Blaster was already being reimagined for use in high-temperature industrial applications to maintain the flow of sticky materials through the process and minimise unscheduled downtime.



Air Cannons like Martin's Hurricane are in widespread use around the world in industries such as cement, steel, lime, coal, biomass, fertilizer and more.

Martin air cannons soon proved to be a game-changer for sectors such as cement, for the first time signalling an end to workers having to access the interior of preheater vessels to manually break off hefty material build-ups using a high pressure water jet – one of the most unpleasant and hazardous jobs on a cement plant.

By the 1990s Martin Engineering had developed an extreme heat and velocity version of the Big Blaster, the XHV, with an all-metal construction capable of withstanding the harshest of conditions. In the 2000s Martin became the first to introduce safer positive-pressure firing valve with its Tornado air cannon – technology that prevents unintentional firing if there's a drop in system pressure, and also allows solenoid valves to be positioned up to 60m (200 ft) from the air cannon for easier access and maintenance. Designed with safety in mind, the positive firing valve also delivers a more powerful blast.

Soon after that came the introduction of the Hurricane valve, located in the rear of the air cannon tank rather than at the tank and nozzle junction, greatly improving safety and ease of maintenance. The exterior-facing design eliminates the need for removal of the tank so maintenance is a simple one-worker operation requiring only minutes for replacement. >



In 2008, Martin Engineering opened its industry-leading Center for Innovation, which accelerated the company's air cannon technology advancements including:

SMART™ Series Nozzles with multiple nozzle tips, one of which features a retractable design that extends the 360° nozzle head into the material stream only when firing, protecting it from repeated abrasions and extreme temperatures. Its clever Y-shaped assembly means the nozzle can be installed, accessed and serviced without removing the air cannon or further disruption to the vessel structure and refractory.

The Martin® Thermo Safety Shield acts as a safety barrier to allow timely and safe maintenance of air cannon systems. It protects workers from exposure to severe temperatures so that maintenance can take place safely and production stays on schedule.

Martin Engineering's current ground-breaking air cannon designs are the result of the research and development in the Center for Innovation, located at the company's headquarters in Neponset, Illinois. The center will open its doors to visitors in the Summer of 2024 as part of the 50th anniversary celebrations.

Brad Pronschinske, Martin Engineering's Global Air Cannon Product Manager, said: "From the very beginning our air cannons were specifically designed to produce a quiet but powerful, high-velocity discharge of plant-compressed air to dislodge buildups and enhance material flow. They were developed to be capable of handling the high temperatures, harsh gases and abrasive, corrosive materials associated with heavy industries, and yet have low maintenance requirements and low costs. Since the launch of the Big Blaster 50 years ago

we have continued to innovate, introducing smarter and ever more powerful air cannon systems that improve efficiency, productivity and safety.

"We're especially proud that Martin air cannons have become so important in reducing the health and safety risks associated with clearing blockages manually – such as working in confined spaces, working at height, falling materials, and working in hot and dusty environments. Our team is always working on new developments and we're looking forward to bringing the next generation of air cannon technologies to our customers all over the world."

To find out more about Martin air cannons and other products visit www.martin-eng.com

Keep materials moving with Martin's BIG BLASTER®



Martin's Big Blaster air cannons dislodge clinging materials and keep them flowing smoothly. In most bulk material handling systems — whatever the materials — wherever they stick — the Big Blaster system works quietly and efficiently when other methods are too expensive, too noisy, or ineffective. It's simple. One or more Big Blasters mounted on a structure send an abrupt burst of compressed air inside, breaking up bridged or ratholed material immediately without structural damage. Initial cost is low, compared with other systems; and because the Big Blaster uses plant air (and just a little of it), operating costs are low, too.

Tell us about your material flow problem and we'll put together a Big Blaster system to get things moving again.

Martin Engineering Company
Dept. , Neponset, Illinois 61345 309/594-2384
Free Flow Line Toll Free Number:
800/447-5681 (outside Illinois)

6265

An original display ad for Martin's Big Blaster air cannon.



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Triangle Tyre makes the difference in earthmoving equipment

Triangle Tyre has always been committed to the ongoing development of its Earthmover tyre range with continuous product testing and go-to-market of new products for quarries, underground and surface mining, construction, and port-industrial applications. The range includes radial tyres up to a 63-inch rim, the largest size currently existing in the world in this segment; it is fitted in mines on rigid dump trucks with a load capacity of up to 400 tons and confirms Triangle as one of the world's leading manufacturers in the Earthmoving tyre sector. Triangle's ultimate goal is to provide the end user with the best cost per hour and represent the ideal alternative to premium brands.

The year 2024 has been marked by the introduction of new patterns and the attendance of some important fairs such as Intermat Paris, held in April, and Hillhead UK, which will be held in June.

The TL578S E4/L4 tyre in size 35/65R33 is the perfect example of new product introduction: a dual-marking tyre for wheel loaders, characterized by maximum load capacity for use on Block Handler loaders, suitable for handling extremely heavy loads on abrasive and aggressive surfaces and in underground transport.

Another example of 2024 launches are the new TB577A SUPER in size 24.00R35 for rigid dump truck available in five different compounds aimed to improve performance and preventing overheating during long hauls, with performance that can be customized to meet customer needs.

Concerning 2024 fairs participation in Europe, Triangle has successfully attended Intermat Paris and together with RH Claydon will exhibit from 24th to 27th June at Hillhead Quarry in Buxton, the UK's largest quarrying, construction, and recycling exhibition. RH Claydon and Triangle Tyre will welcome visitors to their stand which will showcase popular patterns from the wide range available from the Chinese OTR manufacturer. The UK is an important market for Triangle, says OTR Director Europe Luca Mai, and Hillhead is an ideal showcase for our OTR products.



Tyres on show include the 29.5R25 TB598S E4 radial tyre for articulated dump trucks, designed to perform in the most challenging conditions in quarries and construction sites. The combination of deep tread pattern and the wear-resistant compound offer improved tractive effort and damage resistance. Visitors to the stand will also view the 24.00R35 TB526S E4, versatile radial tyre engineered for RDT and able to offer the best traction as well as greater resistance to cuts and penetration; the pattern plays a key role in helping end users traversing the most demanding terrains. The L5 range will be represented through the TL 559S+ in size 23.5R25, massive and extremely deep treads for severe conditions such as difficult industrial application and recycling, confirming the leadership of Triangle in the segment.

Triangle provides tyres and services for many of the world's top machinery manufacturers, Caterpillar, Sany, Hyundai, Komatsu, Liebherr, Zoomlion, Terex, Hitachi, Doosan, CNH, and many others have chosen Triangle tyres for their original equipment. Caterpillar, the world's leading manufacturer of construction and mining equipment, has awarded Triangle with 'Supplier Excellence Recognition' for 9 years in a row. Thanks to the solid network of collaboration with leading specialist dealers in the OTR sector, Triangle maintains a close relationship with the market and end users allowing the Company to fully understand the customers' needs and to develop a product range aimed at ensuring the best cost per hour with the highest safety standards. The "cherry on the cake" is represented by a 5-year manufacturer liability on all OTR products, proving the commitment to quality and durability.

Elite Precast Concrete make bay-building easy

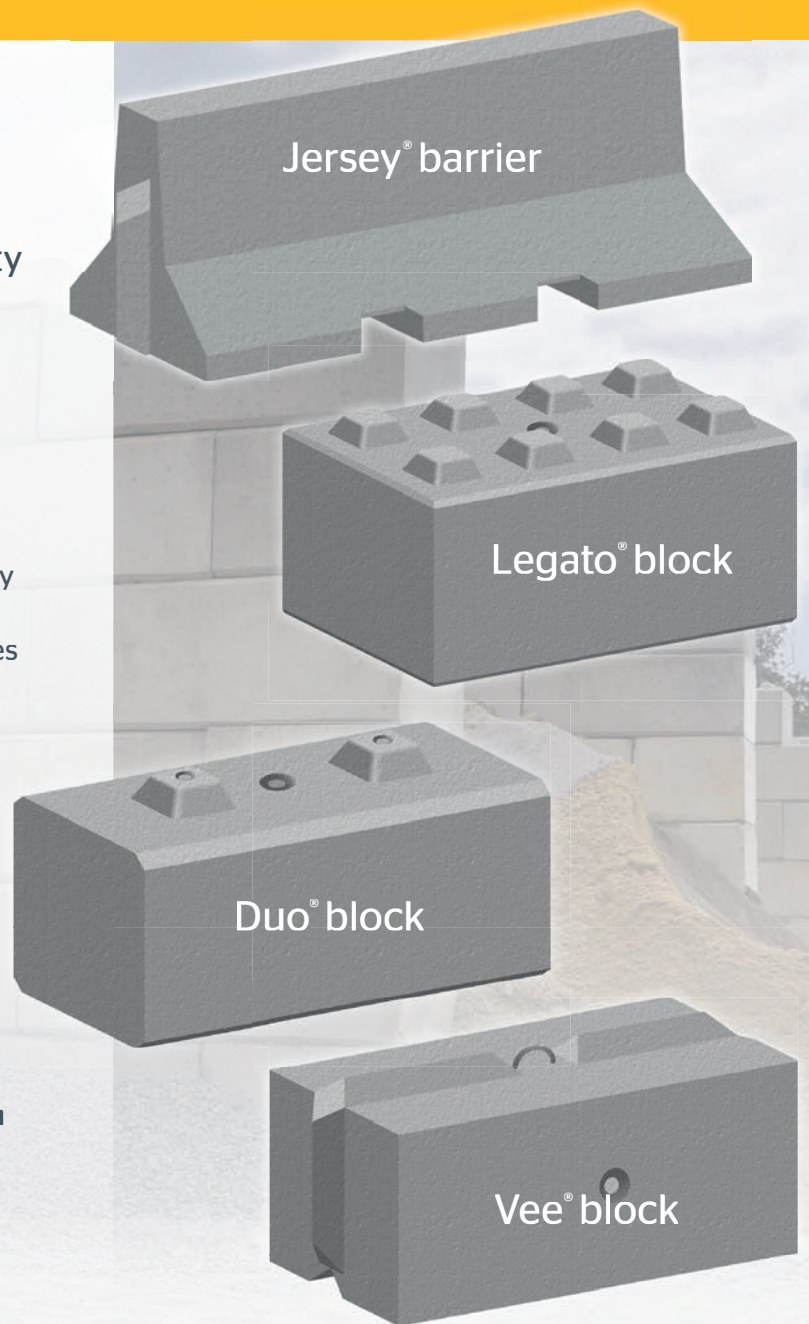
Elite are the UK's premier manufacturer of the revolutionary Interlocking Block System as used throughout the UK in a wide variety of applications.

The blocks are excellent in many varied applications and provide a more simple, robust and cost-effective solution than conventional L or A-shaped thin-walled panels.

Our Jersey barriers are designed specifically as interlocking security barriers for use when there's a need to secure your premises against unwanted visitors or to manage site traffic.

Applications include...

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- Waste & recycling material segregation
- Scrap and steel recycling
- Security barriers



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Astec Industries showcasing depth and breadth of product range at Hillhead 2024

Astec Industries is preparing to showcase some of its comprehensive product range at the upcoming Hillhead 2024 exhibition. Following a significant investment in its European factory in Omagh, N. Ireland, the company aims to engage with both new and existing customers and partners at this renowned quarrying event, helping highlight its commitment to global growth and showcasing Astec's industry-recognized technology to its global audience.

With some of the most recognized industry brands, Astec has streamlined its operations, prioritized customer focus and laid the foundations for its significant international growth plan. This restructuring has enabled Astec to position itself as a key partner in the materials solutions, construction, and infrastructure sectors by leveraging over a century of proven designs, an impressive portfolio of application experience and thousands of installations across the globe.

Managing Director of Astec Europe, Damian Power, explains, "We are excited to showcase Astec Industries to the global

audience at Hillhead. Astec has one of the widest range of products in the marketplace and we are renowned for patented technologies. Astec brands have designed and manufactured products for over a century. Crushing, screening and washing names like Telsmith (established in 1906), Kolberg (established in 1965) and Pioneer (established in 1928) have built our industry and are arguably the foundation upon which much of today's industry-accepted technologies are based upon."





Power continues, saying, "Astec has a history that few in the industry can match, and we are excited to showcase our proven and trusted designs that make Astec a credible choice in comparison to many of our European competitors. Astec has invested heavily in our facility in Omagh and are now in a position to design, produce and support our manufactured products, using the very best of their century-old heritage. The fact that we have thousands of global installs in the field, ensures that we are coming from a place of experience and have a bank of application expertise that supports us globally.

Our products are well-respected within the industry and are built to withstand the demands of the sectors in which we operate. Keeping our customer central to our business remains a priority. We are one of the few OEMs that has an established global footprint to support sales, install, service and parts from our strategically positioned bases. We have manufacturing bases and regional offices in North America, Latin America, Canada, Africa, India and Ireland with additional regional offices in the Middle East, Asia, China and Australia to help serve customers locally. We are currently recruiting additional Astec channel partners across our business lines globally to help represent us. Hillhead will provide a great opportunity for everyone to meet the team, hear about our investment and discuss the strategic expansion of one of the most notable names in the industry."

Ron Earl, Group VP, Sales with Astec elaborates, "We will have representation from all parts of the Astec business at Hillhead, including crushing and screening, washing and classifying, material handling, asphalt, concrete, road construction, forestry and environmental recycling and digital solutions. Hillhead allows us to showcase the very best of Astec – the breadth and depth of our equipment, our product and

application experience, our commitment to developing innovative solutions that offer real and tangible benefits to the customer and our solid and reliable designs. The customer is at the centre of everything we do and we understand the importance of local supply and local support backed by global strength."

Earl continues, "We plan to double our footprint at the show this year including showcasing our washing equipment. We are particularly excited to show off our latest fines recovery plant and rinser screen from the Astec washing solutions division. Astec has a rich history of producing washing and classifying equipment, dating back to the 1960s with Kolberg."

"We will also have a range of units from our mobile and modular crushing and screening divisions aimed to satisfy the needs of customers from small contractors to blue chip companies. We will display a number of tracked mounted and modular jaws, impactors and cone crushers as well as scalpers and finishing screens.

"In the demonstration area we will be showcasing the FT4250 mobile impact crusher. This is a flagship unit that is well-known for its reliability, work rate and ease-of-use."

Astec looks forward to sharing more with everyone who attends the exhibition and are seeking interest from potential partners who share the same commitment to quality, customer-focus and innovation. Astec will be on Stand J11 at Hillhead and welcome any questions or expressions of representation interest, in advance, by emailing hillhead2024@astecindustries.com





Stand
J4

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Celebrating 40 years of Excellence

For 40 years Axon Power & Control have been at the forefront of electrical system design and installation for the materials handling industry in the UK and Ireland.

Founded in 1984 and based at Dungannon in Northern Ireland and now at Sileby in Leicestershire, Axon has a strong history built on servicing the needs of equipment manufacturers and quarry operators alike.

With a 'can do' attitude to problem solving, Axon has the industry experience, technical expertise and a track record that reflects their consistent, efficient, design and management of complex projects.

As an ISO accredited company and approved members of NICEIC and Avetta the highest standards can be assured with every project, providing the right system design after detailed consultation for the most appropriate and straight forward optimum solution.

Axon can provide a wide range of services from a simple machine panel to modular motor control centres with the ability to meet international requirements, including UL/CSA approval including upgrades to modify or modernise existing control systems.

Axon's project engineers take time to gain an understanding of the requirements of the process or system to design a bespoke solution including motor control, energy management, electrical distribution to meet a client's needs.

The company also provide a comprehensive range of electrical installation services to their diverse client base across a broad spectrum of industry sectors including industrial installation, materials handling, renewable energy, and water treatment.

In the event of a breakdown Axon offer a complete maintenance and breakdown service. Either an engineer can visit your site to investigate and rectify the problem, or where this is not possible, Axon can offer remote support to talk through the problem with your local engineers. We increasingly utilise remote access solutions to support our clients globally.

Axon also provides routine preventative maintenance to suit the customer to ensure their plant and machinery are working at their utmost efficiency and achieving their production capabilities with the least amount of disruption to their production process.

Axon will be exhibiting at the Hillhead Show this year, why not call by their stand, PC24, in the main showground pavilion.

NI Headquarters:
Dungannon Business Park
Killyliss Road, Dungannon
Co. Tyrone BT70 1RP
Tel: 028 8775 8923
info@axon-online.com
www.axon-online.com

GB Office:
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Depend on Martin® conveyor components to keep your bulk material on the belt and under control.

Martin Engineering designs and produces the most innovative and reliable belt conveyor components in the industry. Dust curtains and patented, double-seal skirting effectively contain fugitive material. Support and impact cradles eliminate belt sagging and pinch points. Trackers align belts and keep cargo centered. Transfer Point kits feature dust mitigation and air flow management.

Airborne dust, spillage or any material that escapes the conveyor is a risk – a risk to worker safety and a risk to operation profitability.



 ***martin***
engineering



Terex Washing System unveils **STREAM** & Feeder to Filterpress Solutions

Terex Washing Systems is set to make waves once again at Hillhead Show 2024 25th to 27th June. Spotlighting our groundbreaking 'Feeder to Filterpress' solutions alongside a showcase of cutting-edge equipment, it is yet again the stage for another exclusive global Launch, this year it's our revolutionary software system driving machine performance - STREAM.

STREAM Global Launch

Be the first to witness the unveiling of Terex Washing Systems' latest Innovation & Development: STREAM. This innovative data software system leverages real-time insights to drive machine performance, empowering operators with actionable intelligence to boost productivity, minimize downtime, and maximize profitability.

Book your DEMO now and 'Experience it For Yourself' at www.terex.com/washing/hillhead-show-2024

Feeder to Filterpress Rich Heritage

For over 65 years, Terex Washing Systems has been a leading provider of state-of-the-art washing solutions for aggregates and recycling operations. We have collaborated closely with customers to deliver bespoke washing systems for numerous successful projects worldwide. Our relentless pursuit of innovation drives us to develop sustainable solutions, transforming waste into valuable resources, and contributing to a cleaner, more efficient world.

Now celebrating five years of the in-house manufacturing and engineering of their own filterpresses. Terex Washing Systems demonstrates a steadfast commitment to innovation and offering full 'Feeder to Filterpress' washing solutions.



Albin Borer, AG, Switzerland – Full Feeder to Filterpress Terex Washing Systems Solution for Excavation Waste

The use of filterpresses ensures an efficient, well contained, process to provide clean water to be reused indefinitely in the wash plant. Being reassured that the recycled water entering back into the washing process is clean, provides peace of mind that the quality of your washed sand and aggregates will

always be optimized. This helps in meeting stringent quality standards and enhances the marketability of the aggregates.

SAPA, Switzerland - Full Feeder to Filterpress Terex Washing Systems Solution for Excavation Waste





Swerock, Sundsvall, Sweden - Full Feeder to Filterpress Terex Washing Systems Solution for Excavation & Construction & Demolition Waste



Tilton, USA - Full Feeder to Filterpress Terex Washing Systems Solution for Sand & Gravel

Hillhead Machine Lineup

Our machine showcase will feature equipment from our expansive product range. Essential for any wet processing plant is the AggreScrub Pre-screen 150, ensuring efficient material separation with its advanced screening technology. Second in the line-up is the AggreScalp, an advanced versatile High-Performance Screening Solution, enhancing production efficiency. And last but not least our longstanding and reliable FM 120 Bucket Wheel, offering high-capacity sand washing, ideal for demanding applications.

Talk to our Washing Experts

Our team of washing experts are excited to connect with you at Hillhead to share how you can unlock the value in your waste. Secure your meeting slot in advance at www.terex.com/washing/hillhead-show-2024

We look forward to connecting with you at Hillhead Show 2024.



Taz Rock, UK - Full Feeder to Filterpress Terex Washing Systems Solution for Overburden





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See us on stand

H18

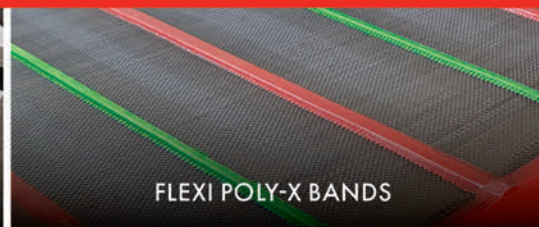
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PUNCHED RUBBER MATS



PUNCHED PLATE



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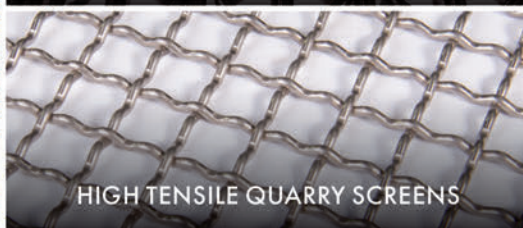
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PRESS RELEASE

AT HILLHEAD 2024

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Upper Showground

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STARCLEAN® Smart Scraper launched in UK at Hillhead 2024

ProSpare Ltd will be using Hillhead 2024 as the platform for the UK launch of the STARCLEAN® S3. The innovative conveyor belt cleaner and monitoring system enables continuous, contact-based control of the conveyor belt and scrapers. It contributes greatly to a lower maintenance, more efficient, and safer conveyor system.

STARCLEAN® S3 allows for predictive maintenance of the belt cleaners and protects the belt itself through preventive damage detection. This digital innovation gives the scraper the ability to self-regulate wear and tear whilst also ensuring a constant pre-tensioning force – completely automatically.

An innovative conveyor belt monitoring system with belt damage detection

STARCLEAN® S3 is the new intelligent scraper that combines a proven electric drive with a number of smart modules to detect conveyor belt damage early and allow preventive repair. This saves time and money, reduces maintenance and safeguards conveyor performance.

The S3 operates through advanced, touch-based scanning technology. This analyses the movement and surface structure of the belt to detect possible damage, and allows reaction before the production process is seriously impaired.

Damage such as punctures, cuts, repair damage, belt slits, cover plate damage and connection damage can be detected. Following detection, the belt cleaners can be autonomously engaged and disengaged using the electric linear drive. Advantages include:

- Continuous monitoring of the belt
- Prevention of unplanned conveyor downtime
- Improved operating reliability
- Damage limitation
- Efficient use of resources
- Transparent data assessment

STARCLEAN® S3 Modules and Cloud Dashboard

STARCLEAN® S3 is constructed through the combination of a number of interconnecting modules, including STARCLEAN® belt cleaners; Scraper Intelligence Module (SIM); Motorisation set with S3 sensor system; and Measuring roller with sensor system.

The newly developed STARCLEAN® Cloud is a user-friendly dashboard where all the assembled data appears, such as km per operating hour, condition of the belt cleaners, and a wear display. In addition to monitoring, the Cloud provides intervention in the system components.

- The Scraper Intelligence Module (SIM) is the heart of the STARCLEAN® Smart Scraper. It automatically controls the components and passes the captured data to the Cloud, which allows monitoring of the whole process.
- The S3 sensor system recognises belt properties and detects damage events via feedback from the belt cleaners. It is possible at any time to see an update of the belt profile, observe the damage/profile, and individually set the damage level.



- The measuring roller detects conveyor direction, position, belt length and speed. This also ensures precise localisation of the damage. Detection of movement direction is especially important with reversible belts, because the scrapers can be engaged and disengaged automatically using the motorisation set.

All data is visible in the STARCLEAN® Cloud, allowing users to monitor the system and take action as soon as an issue occurs. Depending on the damage level, STARCLEAN® S3 can take action independently or even initiate an emergency stop of the belt system if desired.

STARCLEAN® Cloud features include:

- Continuous conveyor belt monitoring
- Detect the position of belt damage, classify belt damage, and define internal damage level
- Initiate action if belt is damaged (disengage scraper, send messages, signal alarm)
- Graphic representation of belt properties
- Detail condition of conveyor belt (operating hours, mileage, etc.)

The STARCLEAN® S3 joins the wider STARCLEAN® belt cleaner range offered by ProSpare in UK. ProSpare are a trusted partner to improve belt conveyor performance, particularly by addressing cleaning, tracking, and sealing issues. We help materials handling businesses in a wide range of industries including quarrying, cement, construction, and recycling, and have supplied over 2500 STARCLEAN® scrapers throughout the UK.

Join ProSpare at Hillhead 2024 on Stand F6. For more information visit www.prospare.co.uk



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Hillhead 2024

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One stop shop for rubber & polyurethane recycling components



At Clifton Rubber we are delighted to be exhibiting for the first ever time at the Hillhead Show in June. Three of the many industries that we provide rubber and polyurethane solutions for are Mining & Quarrying, Construction and Recycling - all three of which have a big presence at Hillhead.

Our diverse range of in-house manufacturing capabilities and technical knowledge ensures no matter how challenging or simple our customer's requirement, we can manufacture a high-quality customised solution. In addition, we also supply a range of own brand components that can be found in use in various applications around the world.



We are in essence, your one-stop shop for all your rubber and polyurethane components.

In Recycling, our products include stars and discs suitable for major types of screening plant, as well as trommel wheels, conveyor rollers, idler discs and polyurethane screens.

We have manufactured various bespoke rubber components for use by our customers in the Mining and Quarrying sector,



such as anti-static rollers, polyurethane screening mats, rubber sheets, rubber and PU mouldings and conveyor rollers.

In the Construction sector, we have manufactured various bespoke rubber components, such as moulded washers for cab systems, suction nozzles for road sweeping equipment and protective bump stops. Our standard own brand products for general use in the Construction industry include brick grabs, tipper pads and loading bay buffers.

Sales Executive Phil Holt adds: "As well as supplying many customers with replacement wear parts such as stars and discs, we have also worked on many bespoke projects within the recycling, quarrying and construction industries. Our customers often need a unique solution to improve the efficiency of their machinery, and we are always happy to help them achieve this."

In 2023 we marked our 50th anniversary in the manufacturing industry, solidifying our position as one of the most established rubber manufacturers in the UK. Throughout our five decades, the company has been a reliable provider of high-quality rubber and polyurethane components.

Come along and visit us on Stand PA50 to find out more.

Alternatively, call 01480 49 61 61 or email sales@cliftonrubber.com. To find out more visit: <https://cliftonrubber.com>.



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Power X Equipment is the next generation in aggregate and mineral processing. Established by industry experts boasting decades of experience, we grasp the industry's dynamic essence and the evolving demands of our clients. With an unwavering commitment to enhancement, we pledge to tailor our operations to fulfill both your current and future equipment and service needs.

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Power X Equipment brings together a passionate and seasoned team alongside trusted brands like Powerscreen, TerexMPS, Matec, AMP, and MS. Backed by our highly skilled engineers, we keep your operations running smoothly with top-notch equipment servicing.



Whether you are in the market for a single machine or planning a full-scale plant setup, we have got you covered. From Aggregate Washing to Crushing & Screening, Bulk Materials Handling, Recycling, and Materials Processing equipment, we design, supply, and install everything you need for success. Expect nothing less than seamless integration and profitable outcomes with Power X Equipment.

Mission Statement

Power X Equipment are committed to long-lasting relationships with customers and suppliers with service and integrity at the core of everything we do.





SBM Mineral Processing at Hillhead 2024 Hybrid power without compromise

SBM Mineral Processing, the Austrian specialist in track-mounted hybrid electrified crushing plants, is coming to Hillhead 2024 with a diverse range of machines and strong dealer support: "For the first time, the Quarry Show is more than just an important away game for us. We have been working very successfully with our distribution partners Banner Equipment and Orba Group for almost two years now and can now prepare even better for the industry highlight," explains SBM Area Sales Manager Norbert Dieplinger. "Within a short period of time, the strong dealer commitment has not only given us a high level of national awareness in all parts of the country, further we have also reached all the industries relevant to us – from quarries and recycling specialists to construction companies using our fully hybrid crushing technology on site," says the sales specialist, summing up the successful entry into the UK market with reference to successful machine placements. Talks with other sales and service partners are nearing completion: "We are in the process of strengthening key positions and will be able to present an even stronger 'Team UK' in Buxton at the end of June."

Hybrid pioneers for 40 years

SBM Mineral Processing offers a total of 12 JAWMAX® track-mounted jaw crushers and REMAX impact crushers, with operating weights ranging from nearly 50,000 to 350,000 lbs (23.0 to 160.00 tonnes). The unique selling point of SBM's mobile machines in all classes is the sophisticated diesel-electric drive concept with the option of full all-electric plug-in power supply from the grid or other external power sources. The numerous hybrid solutions that have appeared on the market in recent years prove that the hybrid pioneers have been right for a good four decades. In reality, however, the competition is often limited to the light 30-tonne and under segment, or offers only partially electrified models, or large crushers with multiple transport units that are difficult to move.

Here, the highly mobile JAWMAX and REMAX models are completely different in their performance ranges from 200 to 600 tonnes per hour: The consistent integration of diesel/generator combinations and the extensive electrification of all drives like screens, conveyors as well as essential hydraulic components (crusher adjustment, crawler drive, lifting cylinders) result in compact transport dimensions and weights, ensuring easy one-piece low-bed transport and fast set-up times on site. In terms of feed size and screening equipment, all SBM mobiles are well ahead of their respective performance classes, which significantly increases productivity in raw materials and recycling.

"Economic efficiency, environmental sustainability and HSE are playing an increasingly important role in operations, especially in the UK market," says Norbert Dieplinger, referring to stricter emissions regulations and industry-wide efforts to improve the environmental footprint of conventional drives with alternative fuels such as HVO. "Our diesel-electric drives with the latest Stage V engines are inherently much more

efficient than fully hydraulic or only partially electrified system concepts – on average we use up to 40% less diesel for an even better output. Thanks to variable fixed speeds of our engines and, of course, fully electric operation, the immediate environment also benefits from significantly lower noise levels."



With 600 tph and up to five end products, the SBM REMAX 600 redefines mobile crushing in the 80-tonne class.

Market premieres and perennial favourites

High productivity is also the focus of SBM's Hillhead exhibits: the company will be showing three machines – or the equivalent of 1500 t/h – on stand N16 and live in the adjacent live demo.



The new flagship REMAX 600 is the technology carrier for SBM's AI-supported "Autonomous Crushing".

The presentation of the REMAX 600 impact crusher also heralds the UK market launch of SBM's new flagship. With an operating weight of only around 80 tonnes, the 1400 class impact crusher (inlet opening: 1380 x 1000 mm (W x H) produces a maximum of 600 tph, defining a completely new performance segment in mobile crushing. The plant offers real added value with its complete package of standard equipment plus options that provide a variety of high-quality final aggregate fractions. In addition to standard pre-screening via a double-deck circular vibratory screen, there are three optional secondary circular vibratory product screens (1, 2, 3-deck), all of which can facilitate the recirculation of oversized material, as well as highly cantilevered discharge conveyors for large product stockpiles. Even fully equipped, the plant can be transported in one piece and set up quickly (approx. 45 minutes) without the need for any auxiliary equipment, even for one-man operation.



With pre-screening and an optional 2-deck production screen, the SBM REMAX 450 impact crusher delivers high quality end products directly on the construction site.

The REMAX 600 is powered by a Cummins Stage-V diesel engine and a 520 kVA generator or, as an option, fully electric from the mains, with plug-in switching and all system functions managed by the intuitive SBM CRUSH CONTROL. The system actively supports the machine operator: even at maximum capacity and full integration of all production screens, uninterrupted one-man operation is guaranteed with optimised consumption data and low environmental emissions (dust, noise).

CRUSH CONTROL, the integration of new AI-based real-time analyses and satellite-based data exchange are also at the heart of the "Autonomous Crushing" project that SBM is driving forward on the basis of the REMAX 600 and about which the manufacturer will be providing comprehensive information at the trade fair.

Also on the stand, SBM will present the JAWMAX® 450 jaw crusher as a universal, highly mobile 450 tph solution for raw

materials and recycling. At the heart of the nearly 40-tonne plant is a jaw crusher with a high crushing force of up to 400 Brinell, a large feed opening of 1100 x 700 mm for piece sizes up to 800 mm, and crushing gap adjustment under load (40 – 160 mm). The CRUSH CONTROL system with automatic foreign object detection and overload protection ensures high availability. Crusher performance is further optimised by the 7 m³ feed hopper and an active double-deck circular vibrating pre-screen with triple flap chute controlling the discharge/bypass or blend of the screened fine fractions, reducing crusher wear and increasing production output thanks to a significantly more homogeneous crushed material. The SBM JAWMAX 450 is equipped with a diesel-electric hybrid drive (200 kVA) with plug-in power option and an electrically driven crusher (110 kW), to provide highest quality production at the lowest carbon footprint.

The track-mounted REMAX 450, which SBM will be demonstrating live, also features the innovative active pre-screening solution that optimises the performance of the class-leading impact crusher (1260 x 800 mm inlet) for feed sizes up to 1000 mm. The system achieves a maximum output of 450 tonnes per hour, with generously dimensioned transfers and conveyors allowing trouble-free production various defined end products in a single pass, even when fully equipped with fine grain side discharge and optional 1- or 2-deck secondary screen including oversize grain recirculation. With its 8 m³ feed hopper, large stockpile capacity and standard multi-function remote control, the large crusher can be efficiently operated by one person from an excavator or wheeled loader. Equipped with a 300 kVA diesel/generator unit and electric crusher motor (160 kW), the REMAX 450 weighs between 47 and around 54 tonnes, depending on the equipment – SBM quotes consumption values of between 25 and 32 l/h for diesel-electric operation as a reference.

Successful all-rounder: The hybrid electrified JAWMAX 450 jaw crusher proves to be a highly mobile solution for raw materials and recycling. (Photos: SBM Mineral Processing)





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ElectroMax Overband Magnet Power at Hillhead 2024

The compact but powerful characteristics of the ElectroMax Overband Magnet are highlighted on Bunting's stand C9 at the Hillhead quarrying, construction and recycling show (25-27 June, 2024). The ElectroMax is accompanied on the stand by the TN77 and meTRON 05D metal detectors, and a permanent suspension magnet.



ElectroMax-Plus Overband Magnet in a waste recycling plant

Bunting is one of the world's leading designers and manufacturers of magnetic separators, eddy current separators, metal detectors and electrostatic separators. The Bunting European manufacturing facilities are in Redditch, just outside Birmingham, and Berkhamsted, both in the United Kingdom.

Magnetic separators and metal detectors operate in most quarries and mines, removing and identifying tramp metal that could damage process plant such as crushers and screens. In recycling operations, magnetic separators operate alongside eddy current separators, recovering both ferrous and non-ferrous metals. With decades of experience and a wide range of equipment designs, Bunting's engineers assess the site conditions and the potential installation prior to recommended the optimum solution.

For ferrous metal separation, the ElectroMax and ElectroMax-Plus range of electro overband magnets separate the heavier and more awkwardly shaped tramp metal frequently missed by other designs of overband magnet. The lightweight, compact but powerful electromagnet is easily installed onto new and existing conveyor systems and is ideal for applications where space is limited or when extra separation power is required.

The ElectroMax and ElectroMax-Plus Overband Magnet uses a strong and deep electromagnetic field to lift and separate the ferrous metal out of conveyed materials such as waste, mined ore, and quarried rock. Unlike other designs of electro overband magnet, the electromagnet is cooled with air rather than oil. This significantly reduces the weight and size, whilst being environmentally friendly by not using oil.

The ElectroMax Overband Magnet is 185% stronger than equivalent permanent overband magnets and 25% lighter. The development was in response to customers' requests for smaller, lighter, and more compact Electro Overband Magnets without compromising separation performance. The

ElectroMax-Plus has additional power and, at a suspension height of 500mm, is over 105% stronger (in terms of Force Index) than the equivalent ElectroMax.

Since April 2019, Bunting has built and shipped over 120 ElectroMax and ElectroMax-Plus Overband Magnets for a value exceeding £3 million.

Bunting's range of magnetic separators extends to standard permanent overband and suspension magnets, oil-cooled electro overband and suspension magnets, drum magnets, and pulley magnets. The optimum design of magnetic separator depends on the installation and the metal separation objective.

Metal detectors commonly operate alongside magnetic separators, with the TN77 model being an industry standard. The TN77 Industrial Metal Detector detects damaging tramp metal present in conveyed materials such as aggregates, mined ore, and recycled materials. This includes identifying both tramp iron and low-grade manganese steel (e.g. digger teeth). Once detected, the problematic metal is removed either manually or automatically, preventing damage to screens, crushers and conveyors. The TN77 design is easy to install and simple to operate, making it one of Bunting's most popular metal detectors.



A TN77 Metal Detector operating in a quarry

The closed tunnel type meTRON 05 C Metal Detector provides high-sensitivity detection in rough industrial environments including encapsulated or loose tramp metal present in conveyed, vibratory chutes, gravity-fed and material-slide transported materials. Once detected, the problematic metal is removed either manually or automatically, preventing damage to processing equipment. The meTRON 05 C typically protects equipment including grinders, crushers, mills, chippers, and shredders.

For non-ferrous metal separation and recovery in recycling operations, Bunting has a range of Eddy Current Separators. With either concentric or eccentric magnet rotors, the eddy current separator separates small non-ferrous metals, such as aluminium, copper and zinc, down to 3mm in size.

"Hillhead is an important show for Bunting," explained Bradley Greenwood, Bunting's European Sales Manager. "Many of our existing and potential customers are either exhibiting or visiting. The show provides the ideal opportunity to help solve metal separation problems, whilst also displaying production scale equipment on the stand."



Off The Road Tyres



HALL 7.1
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Providing added value for our clients is central to our work. We design and develop equipment and solutions for the beneficiation and classification of quality products created from raw minerals. Our intention is to deliver the highest quality service, on time and on budget, providing well designed, user friendly plant and machines, exceeding customers' expectations.



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CDE plans new product unveiling at Hillhead 2024



The stage is set as CDE, a leading supplier of sand and aggregate wet processing solutions for the waste recycling and natural minerals processing sectors, announces its return to Hillhead with a major product showcase on the cards for 10.30am on Tuesday

25th June, at the CDE's stand - A11.

From June 25 – 27, the wet processing experts will shine a spotlight on equipment from the CDE product range that is improving productivity and delivering consistent performance in the quarrying, construction, and recycling industries.

The company will also debut its most efficient water management solution to date, which it says promises greater functionality, improved maintenance access and safety, speed, automation, and material versatility to offer best value per ton processed for operators.

Located at stand A11 beside the registration pavilion, CDE will present its AggMax™ 252SR scrubbing and classification system, which combines pre-screening, scrubbing, organics removal, sizing, stockpiling, fines recovery, and filtrates removal on a compact chassis.

Also on display will be the latest generation of FreeFlow™, the fully-mobile washing solution for aggregate and sand classification. Designed and built onto the bed of a semi-trailer for optimal mobility, the plant helps achieve maximum in-situ

material recovery and boasts integrated water storage and recycling.

Commenting on the company's latest product reveal, CDE's David Kinloch, Director of Business Development, UK & Ireland, said: "We see the world through our customers' eyes and we engineer practical, scalable and proven solutions that address real-world problems, from the big picture issues concerning global sand shortages and the industry's waste burden, to the everyday needs of our customers.

"Our plans for Hillhead this year really reflect our commitment to innovation and our desire to elevate the industries and sectors we operate in. Alongside the AggMax – the backbone of the CDE process and the driving force behind countless natural processing and waste recycling solutions around the world – will be the latest generation of our FreeFlow and the global reveal of our newest product innovation.

"We look forward to sharing more information with the industry over the coming weeks and hosting the global product launch at the Showground at 10:30am on Tuesday 25th June."

CDE will be joined at Hillhead by strategic partners Molson Washing, the specialist materials processing division of Molson Group, as well as Siemens Financial Services, to provide customers with expert guidance to support their investment in the latest wet processing technology.

For more information about CDE and its wet processing solutions, visit CDE at Hillhead, where the team will be located at stand A11, close to the registration pavilion. You can also request a meeting with the team in advance via the CDE website: cdegroup.com/hillhead.

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JUNE 25 - 27, 2024
Hillhead Quarry, Buxton, UK

Stand N16



Over thirty years of experience developing pumping

With over thirty years of experience developing pumping solutions for the UK quarry industry, DXB has gone on to become the market leader for the supply of pumps and accessories throughout the UK. Modern designs incorporate Rediprime high efficiency pumpsets, powered by Stage 5 engines or electric motors, giving flows up to 5000m³/hr and heads up to 240m.

The company also design and supplies both hydraulic and electric submersible pumps, pipework installations, after-sales service, and repair from its 14,000 sqft operation. The company is ISO9000/14000/45000 and an approved supplier to all the major quarry companies in the UK including many independents from the South West to Scotland and everywhere in between, serviced from its head office and its local depots.

All DXB pumpsets are locally designed, manufactured, sold, or rented from our UK operations and offer the largest range of pumpsets in the country with the highest efficiencies, reducing costs of operation and carbon emissions on site. All pumpsets have the option to also come with telemetry control and monitoring allowing for remote operations on site when lone working is required to be avoided.

DXB Sand and Slurry pumpsets are exclusively designed for the reliable and critical silt and slurry pumping applications associated with wash plants and solids separation. Designed using the Cornell hard-iron SM pump range, these pumpsets also combine the environmental benefits of IEC3/4 electric motors or Stage 5 emission compliant engines with the wear resistant pump, all in a fully bunded sound attenuated canopy with the same features as our dewatering range of pumps.



X³ Chain – the next generation of Roller Chain

Launched in 2022, Donghua's X³ chain is a cutting-edge advancement in roller chain. X³ is not just a solution, it is a deluxe answer to the challenges of chain wear, fatigue, corrosion, high speed, lubrication, length accuracy and strength.

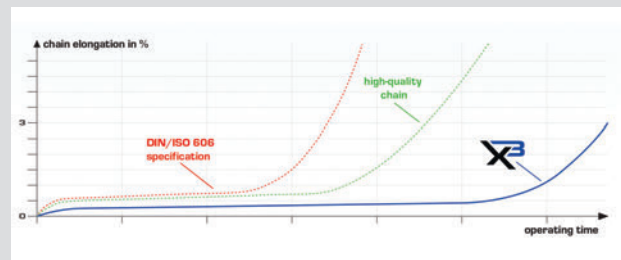
At the heart of the design of X³ lies the Hangzhou Donghua Chain Group's commitment to excellence. Designed to surpass traditional roller chain performance, X³ chain represents a shift in durability, efficiency, and reliability, setting new benchmarks for roller chain.

Exceptional performance

The chain delivers three-times the performance in wear resistance, fatigue resistance, and high-speed performance when compared to traditional roller chains. This exceptional performance is a testament to Donghua's commitment to product development.

Cutting-edge features

The hardened, shot-blasted plate shape, calibrated pin and bushing holes, special heat-treated and surface-coated pins,



seamless rollers, and bushings, all contribute to its outstanding wear and fatigue resistance. Combined, these elements create a chain that thrives in arduous environments, making it an ideal choice for the recycling, quarrying, and bulk material handling industries who demand high performance drives.

Premium build

Manufactured on a purpose-built, automatic production line, X³ chain represents the pinnacle of roller chain engineering. Its unique pin coating, optimised plate geometry, and high-precision stamping set it apart as a deluxe solution for industries that use high demand drives.

Pre-loaded and pre-lubricated

To ensure minimal downtime and maximum efficiency, X³ chain is supplied pre-loaded and pre-lubricated, as standard.

These features, together with availability in simplex and duplex ex-stock from Donghua's 25,000 sq. ft warehouse in the West Midlands, makes X³ the next generation roller chain solution for the UK market.

Certora Training: Specialist Industry Training

The countdown has begun for the Hillhead Exhibition, and Certora Training are returning to talk all things training, assessment and qualifications for the industry.

Come and visit the team at stand PA20.

Certora specialise in the delivery of equipment operator training courses, onsite assessments, and vocational qualifications. From mobile plant to working at height equipment, abrasive wheels awareness to managing mobile plant operations, weighbridge qualifications to road surfacing qualifications.



With over 30 years' experience of delivering recognised and accredited training and qualifications. Certora work with many of the UK's leading and specialist accreditations including MPQC, IPAF, PASMA, CIWM, NPORS and GQA. Delivering services that are relevant, engaging and cost effective at customers' locations nationwide, ensuring job specific training is gained.

What's new for 2024

Vocational Qualifications

As a CIWM, MPQC and GQA approved qualifications assessment centre Certora offers over 20 industry specific qualifications, ranging from Level 2 to Level 7 for all types of roles. Their e-portfolio system makes the qualification process seamless by enabling managers and supervisors to monitor learners' progression and easily upload evidence.

Certora has recently extended their range of qualifications to include more Waste Management qualifications and opportunities for the construction industry. Introducing GQA and MPQC accredited construction qualifications, including Level 2 Diploma in Plant Operations and the Level 3 Occupational Work Supervision Construction.

Managed Service

At the request of their customers, Certora have built a specialist team who are dedicated to managing the operational training needs for any business. Their Sourced Training team offer seamless solution for any business looking to streamline their training.

With a network of over 110 expert training providers, Certora can arrange training outside of their specialisms from drone training to hydraulics and conflict management to confined space training. The sourcing team will manage, coordinate, administer, review and facilitate all your operational training requirements, even uploading completion data into your LMS.



eLearning for Waste Management Awareness

Available this summer, Certora's waste management experts have created a suite of Waste Management Awareness eModules. Ideal as a preparation course for anyone who is due to take their Continuing Competence Test. More courses will be added throughout 2024 to further support those who may not be familiar with

waste management but are seeing the processes on their site evolve.

The Certora team will be on hand at the show but they are always available if you need any support and guidance, give them a call on 01246 386900.

MPQC Plant Operator Competency Scheme

Did you know that the MPQC Plant Operator Competency Scheme was updated at the beginning of 2023 and the red and blue operator card statuses changed?

Step 1 – Initial Training

Operators are required to complete accredited and nationally recognised training.

Step 2 – On-Site Experience

Operators should build upon their skills and knowledge with specific job and familiarisation training and continue to gain experience on-site.

Step 3 – Operator Assessment

Either 3 months, or 150 hours after completion of training, one of Certora's MPQC assessors will come on-site to carry out an operator assessment. This consists of a Level 2 Health and Safety test followed by a practical assessment.

Step 4 – Assessed Operator

If successfully completed, operators will achieve 'Assessed Operator' status and will receive an MPQC Operator Card, formally known as the Red MPQC Card. Scanning the QR code on the reverse will outline the plant categories that they have been assessed to operate.

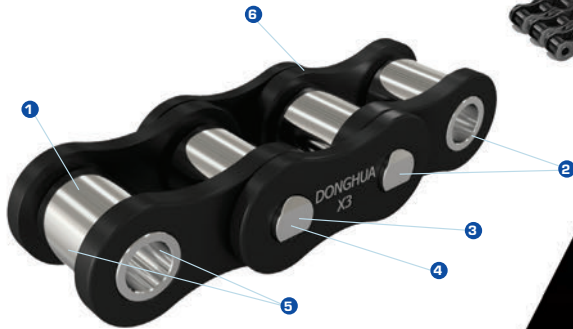
Step 5 – Vocational Qualification

The next step to demonstrate competence under the MPQC Scheme is to complete a relevant VQ in one of the following environments: plant, construction or road surfacing.

Step 6 – Competent Operator

Operators will need to provide evidence demonstrating their skills, knowledge and experience in their role which will be reviewed by an approved MPQC assessor. Once completed and verified your digital profile will be upgraded from 'Assessed' to 'Competent Operator' (previously known as a Blue MPQC card). Operators will require an operational assessment for each item of plant every 5 years after achieving 'Competent Operator' status.





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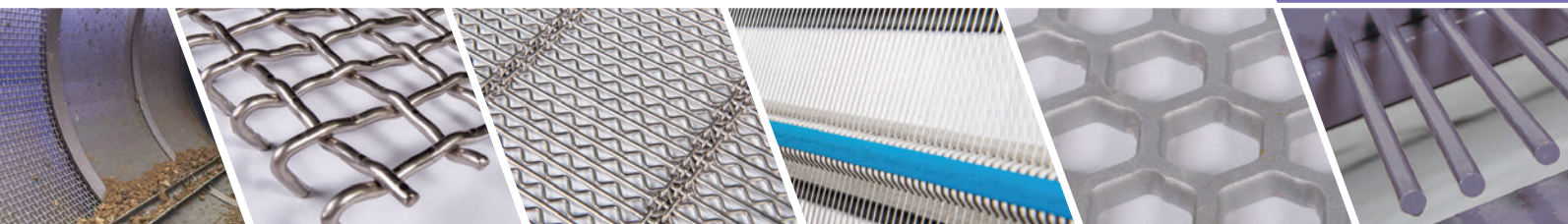
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QUARRY SCREENS & RECYCLING

Sharp Skips expand their product offerings with a new Tyrone International wash plant

With almost four decades' worth of experience Sharps Skips operate a very successful business from their yard in Rainham, Essex. They operate throughout London, Essex and Kent providing a large range of waste services to help their customers achieve a zero-to-landfill goal.

George Sharp – Director of Sharp Skips – “We take recycling very seriously and ensure the waste is properly processed so items that don't have to go to landfill are re-used in alternative ways. We provide roll-on-off container hire, skip hire and grab loader hire, with same-day delivery and professional staff who always go above and beyond. We've built a reputation for reliability and quality customer service.

“We first started to consider adding a wash plant to our operation in 2022 to provide a solution for processing trommel fines from our skip waste processing facility. We identified that by washing the trommel fines we could extract more reusable materials and significantly reduce the volume of material going to landfill.”

Tyrone International:

Tyrone International [TI] offer game-changing Wash Plant Solutions designed to solve tomorrow's challenges. Opening new worlds of opportunity for a more sustainable, efficient, and profitable future for their customers, partners and the wider construction, mining, waste & recycling industries.

Fintan McKeever – Director - TI, commented, “As a company we are focused on the circular economy and offer innovative bespoke washing solutions to recover reusable aggregates from different waste streams. Washing provides the opportunity to recover and segregate materials from difficult



waste streams that cannot be achieved by traditional dry processing systems. When Sharp Skips approached us with their requirements, we knew that we could offer a bespoke solution to maximise the recovery of aggregates and increase their product offering to the market.”

Case study:

After the initial contact and discussion TI conducted a detailed study of the site, and analysis of the proposed feed materials. Once all the factors were taken into consideration a detailed proposal was provided with layout drawings that minimised the impact on the current site operations.

Sharp Skips stipulated that they wanted the capability to wash up to 60tph so that they could meet current demand and have capacity for future growth.

As this was a very busy operational site there were many factors to consider including the stocking area for the feed and washed products, vehicle movements, operator access, and site drainage.



The plant had to be designed to cope with a fluctuating silt content, removal of organics and plastics and separation of both ferrous and non-ferrous metals. In particular, containment and removal of polystyrene out of the system and the ability to keep the wash water clean.

A successful installation:

After a successful installation and commissioning the new wash plant is currently processing a large variety of trommel fines and inert recyclable aggregates. The plant is producing clean fine sand, coarse sand, and 10mm, 20mm and 40mm aggregate along with ferrous and non-ferrous metals.

In addition, a full water treatment plant has been incorporated with a twin overhead beam filter press to recycle up to 95% of the water and produce a dry filter cake.

Tyrone T-Scrub 1100 wash plant:

Designed to wash and thoroughly clean the most difficult recycled aggregates this machine can process up to 60tph and produce three washed aggregates. The sand is pumped to the T-Sand 084 for further classification; it is then double washed through hydro cyclones to remove all the -5mm trash and silt fraction and split into fine sand and coarse sand. With a robust design and incomparable access, cost of ownership is reduced, and plant utilisation is maximised.

The +5mm trash is floated out of the back of the T-Scrub logwasher and the -5mm trash is removed on a vibrating screen prior to the water treatment plant. There is also a



surface scraper on the thickener to remove any fine trash material and fibres which ensures the water is kept clean.

The plant layout includes extensive walkways for operator maintenance and servicing and is fully automated for ease of operation. The overhead beam filter press offers unrivalled access for ease of maintenance and has very few moving parts reducing cost of ownership.

George Sharp – Director commented, "We are very happy with the quality of the materials produced and the performance of the Tyrone plant. This operation has helped us future proof our business, provide a solution for our trommel fines and open new markets for our business.

"The circular economy and sustainable growth are an important factor in all our decisions and our new wash plant will help us to achieve our goals."



New STADLER WireX sets new standards in automated bale dewiring



STADLER Anlagenbau GmbH unveils the new WireX automated bale wire remover at the IFAT exhibition in Munich, Germany. An industry first, the new machine fully automates the wire removal process and dewires crosswired bales in one pass, ensuring a highly efficient and safe process.

Baling wire is essential in the recycling industry: without it, it would be far more difficult to collect, transport and handle the large amounts of waste materials that enter the recycling process. However, the extensive use of wire means that recycling facilities face the challenge of dewiring the bales efficiently and safely.



"It is a complex task, which is usually done manually or with limited mechanical assistance," explains Rok Mežič, Head of Development at STADLER. "However, manual removal is time-consuming and labour-intensive, and poses safety risks for workers. In our sorting plant projects and speaking with our customers, we saw that this was a significant pain point in the existing process and decided to develop a solution to address the issue efficiently. The result is our new WireX, which fully automates the process, dewiring bales in a single pass. It significantly increases the efficiency of the process and the sorting line's capacity, as well as improves workers safety. We believe that WireX fills a critical gap in the market, aligning closely with our customers' needs and setting new industry standards."

An industry first: dewiring crosswired bales in one pass

Using sensor detection and measurement systems, the new STADLER WireX effortlessly measures the bales and removes the wires from single- and cross-wired bales in one pass without double feeding. The steel dewiring unit is integrated into a steel frame resistant to vibration, also made of steel. The machine geometry is designed for standard bale dimensions to ensure smooth operation.

The bales are fed onto the machine by an independent conveyor, guided by a moving push plate onto the floor plate, which keeps the bale in position. Sensors located above the input conveyor, inside the chamber and on the flap ensure the bale is positioned correctly with high precision. Once the bale is in position, combs are pushed into the bale to fix the wire



for cutting. The bale measurement system ensures the cutters move in the bale correctly. When the cutting is done, the combs pull out and the wires are coiled up and discharged by a small integrated conveyor into a separate bin, ready for recycling. The floor plate opens and the bale falls onto a conveyor placed below the machine, which will feed the material into the sorting system.



"With WireX the bales are dewired quickly and efficiently, saving considerable time as there is no need for a second pass of the bale or manual intervention to remove all the wire," says Rok Mežič.

The new WireX has followed STADLER's rigorous development and validation process and has been extensively tested at STADLER's test center in Slovenia. It is also in the final stages of further testing in real conditions at a customer's recycling facility.

KKB Group Pioneers UK first with fully Electric Fleet of Rubble Master Machines from Red Knight 6

In a decisive move towards sustainable recycling practices, KKB Group, leaders in remediation, recycling and specialist demolition, has become the first UK business to purchase a fully electric fleet of crushers and screeners by acquiring the Rubble Master machines from UK dealers Red Knight 6.

This bold investment underscores KKB Group's commitment to reducing carbon emissions and embracing innovative, eco-friendly technologies to revolutionize traditional material recycling methods. In order to meet the stringent UK quarry industry and health and safety guidelines this has been a highly collaborative process, with regular meetings over an 18 month period between KKB Group, Rubble Master and Red Knight 6. Discussions with the Rubble Master technical team on the electrification set up and machine telematics have been extensive between all three parties to ensure full compliance and future proofing of the solution.

"Our industry has long been associated with significant environmental impact, ranging from high carbon emissions to excessive waste generation. As sustainability becomes an increasingly pressing concern globally, we are under growing pressure to adopt greener practices. Our decision to integrate this range Rubble Master electric machines into our operations represents a proactive response to this challenge," said Colin Basi, founder of KKB Group.

"As a business we know that lowering our environmental footprint is crucial to maintain our place at the forefront of many bid processes. In addition with this range we can provide enhanced energy efficiency and therefore reduce overall costs," said Andy Shaw, Director at KKB Group.

"Many in the industry talk about sustainability and being eco-friendly, but Rubble Master are the only ones that have



demonstrated a large crusher (RM 120X Hybrid) that we can plug into the grid and a screener (MSC8500e) that can be plugged into the RM 120X Hybrid as its power source. Of course it isn't as simple as plug and play and the collaborative approach to the R&D from all sides has been key to getting this deal over the line," continued Andy.

"We've worked on this deal with KKB Group for over 2 years, alongside Rubble Master and industry experts to ensure what they needed could be done. We are delighted to see 4 machines in the UK right now, with the remainder to be delivered this year. One of the key benefits of Rubble Master electric machines is their versatility and performance. Whether it's crushing concrete, asphalt, or other materials, these machines deliver exceptional results while operating silently and emitting zero exhaust fumes. This not only improves the working environment for onsite crews but also allows projects to be carried out in urban areas without causing disruptions to nearby residents," said Paul Donnelly, MD of Red Knight 6.



FM Conway invest in a 100 tonne Sennebogen 865E Fully Electric Hybrid recovery tracked material handler

FM Conway is a familiar sight across London and beyond. Their fleet of modern tippers are a regular sight across the City's roads as are their utilities, civil engineering, and surfacing gangs.

Whilst many people see their outward facing persona, behind the scenes, the business is a self-sufficient, forward-thinking contractor with an entire supply chain established to streamline their business.

Established in 1961 by Francis (Frank) Michael Conway, the business originally commenced operations when Frank traded his family car for a tipper truck! Frank's single-minded determination prevailed to establish a great company with a great ethos and a passion for people. A sentiment continued by Frank's son, Michael Conway MBE, who took over the company in 1981. Michael's commitment to succeed was palpable, increasing company turnover to £1,000,000 in just four years. Michael's forward-thinking views on the industry helped to change attitudes and deliver growth. His self-delivery philosophy was unique and his creativity for using recycled materials was unprecedented within the industry at this time. It is these visions that have developed and driven the company forward, whilst maintaining a striving family business.

As the business developed and subsequently expanded, the company opened depots as far north as Coventry and as far west as Hampshire along with a huge coverage across London and towards the south coast. This expansion saw the development of a state-of-the-art asphalt plant on the side of the Thames at Erith. Not only did this plant allow the company to manufacture their own asphalt, but it also took a huge step in allowing the company to self-deliver projects instead of relying on outside suppliers. Along with the development of the plant, the location of the site also gave the company access to a dedicated wharf allowing them to import material in bulk. The drive towards a self-sustainable business also saw the company develop and bring online their own bitumen

plant just a few miles down the river at Gravesend.

Area Manager Jim Gibb takes up the story, "We have long held the belief that being a master of your own destiny is by far the best for the business. We can keep our material stocks high which allows us to produce material 24-7, without any reliance on road transport putting pressure on our increasingly busy road network. Over the course of seven days, we will receive five vessels ranging in capacity from 1500t barges to 5000t coasters carrying a variety of material covering 6mm, 10mm, 14mm, 16mm and 20mm stone."





To transfer this material from the vessels into the huge stockpile building adjacent to the asphalt plant FM Conway has installed a conveyor system to gradually fill each bay. Covered by a CCTV system, the team on the wharf can move the discharge conveyor as each stockpile gets towards its limit to ensure the discharge of each vessel runs smoothly and quickly.



The latest addition to the FM Conway fleet of equipment is a 100 tonne Sennebogen 865E Fully Electric Hybrid recovery tracked material handler. Painted in the FM Conway colour scheme, the huge material handler sits on a sturdy jetty built to allow vessels to be unloaded at any height of the Thames tide

Manufactured at the Sennebogen factory at Straubing in Bavaria, the material handler was supplied by the UK dealer, Molson Green and built up on site before being tracked onto the wharf. The 865E is the first of its kind to come to the UK and has allowed FM Conway to further reduce their carbon impact as the Sennebogen is one of the manufacturer's fully electric models. "We had very successfully used a similar sized Sennebogen for almost 13 years and with a need to change the machine, we met with the Molson team to explore all possibilities for a fully electric option designed to meet our operational needs and reduce our running costs." Head of Major Projects Mark Whelehan explained. "Following lengthy discussions, we settled on the machine we have now and following 6 months of almost daily use, we know we have made the right choice as the Sennebogen has been flawless in use and has massively increased our productivity in the short time it has been here. On the rare occasions we have had to speak with the Molson team, their response has been second to none." >





Already having a substantial electric supply powering the asphalt plant, the installation of a suitable service for the 865E, although costly, was not as difficult as starting from scratch. The T-shaped jetty on which the machine sits was fitted with several intermediate sockets allowing the 865E to travel to its final working point with ease. Once on the 150m long jetty, a fixed cable was fitted to the material handler's self-adjusting cable reel allowing the Sennebogen to travel freely up and down the entire length of the structure.

The Sennebogen uses a dedicated 250kW electric motor to power the standard hydraulic system. Not only does this reduce any requirement for refuelling and the potential hazards this incurs, but it dramatically reduces the maintenance required on the machine as there are fewer moving parts to worry about. Even though the machine is based in an industrial area, prevailing winds can easily distribute engine noises down the river to nearby residential properties. The electric Sennebogen almost reduces noise levels to zero with just the traditional noise from the hydraulic system being heard from this model.

Sitting on a mechanically extendible undercarriage, the 865E sits snugly within the sturdy edge protection to the sides of the jetty. The large upper structure sits high enough to slew freely over the handrails to both sides of the jetty with ample walkways and handrails ensuring safe and simple access to the components situated within. The elevating Maxcab Industry is the medium sized cab available for the larger models and gives the multiple operators ample working space



and excellent vision from the seat. As part of the package a stick mounted camera gives an unimpeded view into the holds of the vessels ensuring every last bit of material is removed. This screen along with the machine's 360° camera screen and Xwatch XW4 height and slew restrictor screen still allow for a relatively uncluttered cab.

The 865E has a choice of boom and stick options with FM Conway choosing a B24 Port set up giving a potential ground level reach of almost 26m. "This was the ideal set up for us and allows us to safely service the variety of vessels we handle on a daily basis." Mark commented. "We have chosen to fit a 3m3 Exstel clamshell which is proving to be an excellent choice for its reliability and durability."

At the time of our visit, the wharf team were busy unloading the smallest vessel they receive, a 1500t capacity barge which was loaded just along the coastline at Northfleet with the larger coasters ferrying material from Northern Ireland. "We can empty this vessel in around 6-8 hours depending on the tides." Site operations team commented. "This will increase to between 13 and 16 hours for the larger vessels." The material is deposited into a large hopper situated over the conveyor which can be remotely controlled to move up and down the line allowing the 865E to reach it with ease from any operating position. "We have managed to increase our hourly output to around 420 tonnes per hour which has given us an increase in over 100,000 tonnes per annum compared to our older machine." Darren commented.

Jo Barker-Collins is FM Conway's Marine and Rail Replenishment Manager and commented, "Working closely with our material providers we have built up a system which has allowed us to increase productivity whilst managing costs. Running vessels into the site, even from Northfleet and Tilbury has significantly improved operational efficiencies for supplying material to the site, reduced our overall carbon footprint and together with an increase in the use of recycled base and topping material, has allowed us to reduce the quantity of virgin material needed at the site."

The arrival of the Sennebogen has not revolutionised the plant, but it has allowed it to maximise its potential of self-sustainability in which FM Conway is building its future on.



The Complex Relationship Between Visual Appearance and Sales: Finding Balance and Consideration



In the world of sales, the impact of visual appearance is undeniable. From attire to presentation, these factors shape customer perceptions and influence sales outcomes. However, navigating this relationship is complex, requiring careful consideration. I aim only to touch the surface of this topic, exploring various

facets and offering insights throughout from personal experience.

The Power of First Impressions

First impressions wield significant influence in sales interactions. A polished appearance can foster confidence and receptiveness in customers. However, with the shift to online interactions during the pandemic, adapting to virtual settings presented new challenges. You can still identify how individuals are battling with this even today.



Authenticity vs. Conformity

While professionalism is vital, authenticity also holds value. Balancing both is essential to resonate with customers. Your appearance should reflect your personality while meeting industry standards, adapting to diverse cultural norms when necessary. Try to remember your audience and environment. What might require a suit in one country, could become a t-shirt and smart jeans in another.

Cultural, Gender and Contextual Considerations

Understanding cultural expectations regarding attire is crucial when engaging with diverse clientele. Treating all clients with equal respect is crucial in navigating gender dynamics yet still often forgotten even today. Adjusting presentation styles based on context improves effectiveness in sales interactions. Have you ever paused and considered how you needed to adapt your style to the audience you were in front of? Or reflected on your performance in a meeting after coming out?

The Impact of Non-Verbal Cues

Non-verbal cues, such as body language, grooming, and posture, significantly influence perceptions. Attentiveness to these cues helps establish rapport and build trust with clients. I recall one video call I made to a new client, where I dropped



the height of my chair and sat further away from the screen. When the client and I met in person he commented on it, and I explained the reasons behind my decision, based on control and influence. He both appreciated it and was fascinated with the reasons for my actions.

The Role of Personal Branding

Visual appearance contributes to personal branding in sales. Ensuring alignment between appearance and brand values enhances recognition and differentiation in the market. However, be careful in your approach, subtlety can often be better received.



Adapting to Evolving Norms

As societal norms shift, flexibility in visual presentation becomes imperative. Embracing changing dress codes and adjusting to remote work settings reflect responsiveness to evolving trends. Embracing flexibility and adapting your visual presentation allows you to remain relevant and responsive to changing trends. I think the last time I personally put on a suit was for a wedding!

Final thoughts...

The relationship between visual appearance and sales is intricate. Balancing professionalism, authenticity, and cultural sensitivity while leveraging non-verbal cues can optimise sales success in today's dynamic marketplace.

I'm not the only one who has similar thoughts as Forrest Gump famously said, "You can tell a lot about a person by their shoes."

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Hanson - Dagenham integrates site-wide ZoneSafe access control and pedestrian safety solution

Hanson UK, now known as Heidelberg Materials UK, is a leading UK supplier of low-carbon heavy building materials to the construction industry. It is part of the German company Heidelberg Materials, one of the largest building materials manufacturers in the world.

The company produces aggregates, ready-mix concrete, asphalt, cement, and cement-related materials for a customer base across England, Wales, and Scotland. Its Dagenham site is one of the busiest in the Southeast of England, operating 24 hours a day, 365 days a year.

The Requirement

The business had identified a need to improve safety measures around traffic management at the Dagenham site.

The site layout is long and narrow, which creates challenges around the safe movement of mobile plant. Over a number of years, the site has seen an increase in vehicle movements, which has resulted in a number of incidents or near misses, highlighting the need for more robust systems to be applied.

Solution and implementation

Hanson UK collaborated with ZoneSafe reseller MechTech to find a suitable solution. The first step was to conduct a detailed onsite assessment so that MechTech could fully understand the challenges and safety risks the site was facing.

Pedestrian crossings from the operational area to the jetty were noted as a key concern. This high-risk zone regularly sees shovel loaders and mobile plant moving in close proximity to pedestrians and other vehicles, so it was important to enable safe passage for pedestrians while alerting drivers and operators to hazards in the area.

ZoneSafe was initially trialled on the wharf sand and gravel plant alongside additional safety solutions, with positive results. Following the successful trial, ZoneSafe was applied to all other machines to control vehicle and pedestrian access across the Dagenham site.

The Result

The application of ZoneSafe has significantly improved site safety for workers and visitors and enhanced the overall safety culture at Dagenham.

The business has identified a number of incidents that could have occurred had ZoneSafe not been in place and is pleased that these potentially serious accidents have been avoided.

ZoneSafe alerts drivers and pedestrians when in close proximity and addresses high-risk areas by ensuring shovel loader drivers and mobile plant operators are made aware of risk in good time, helping to avoid collisions.

Furthermore, the company's commitment to safety through investment in ZoneSafe has also resulted in a notable improvement in the overall safety culture not just at Dagenham, but across the business.

Michael Perkins, Dagenham Site Manager, said, "ZoneSafe has had a massive impact on safety at Dagenham. We have seen a reduction in potential incidents and the investment has had an overwhelmingly positive impact on our health and safety culture."

"This solution gives us all peace of mind as it provides an alert covering 360-degrees around the vehicle. ZoneSafe helps eliminate the risk of accidents that could have otherwise occurred."

"We are proud to say that our health and safety culture is changing for the better with a strong commitment to training and the drive to promote a safe working mentality."

"Investment in ZoneSafe aligns with the company's principle of 'One Team' where everyone plays a role in creating a safer workplace, and incidents are learned from and acted upon without blame. We are actively learning and using this information to improve safety across Dagenham and the business, and ZoneSafe has played a vital role in this process."

www.zonesafe.com



PowerX Equipment design and install a new Wash Plant for Glendinning at Linhay Quarry

Located in Devon, near Newton Abbott, Linhay Hill Quarry is owned and operated by Glendinning, who is the largest independent supplier of quarry, and concrete products to the construction trade, local authorities, and general public in Devon and Cornwall; with supplied aggregates amounting to 25% in Devon.

Founded in 1958 today it operates with a staff of over 200, over 50 vehicles, 2 quarries and five sites and is still very much a family business.

Investment:

Linhay Hill quarry is where the company extract and process Devonian Limestone with their up-to-date production facility.

Recently an aged wash plant came up for review and the decision was made to replace the plant which after due process PowerX Equipment were chosen. Founded by industry specialists with decades of experience in this market PowerX Equipment are recognised as a market leader and the next generation in aggregate and mineral processing.

The new plant was installed and commissioned in September 2023, with civils completed by Glendinning.

Ensuring the product:

Designed to produce concrete sand predominantly and some clean single size aggregates the primary function of the new plant is to make this concrete sand and clean sized aggregates of 6/10/14/20mm.

The washing material is part overburden which previously could not be used for any other purpose is fed into the plant. This allows them a better utilisation of all the minerals that they are having to move around – for instance, the top section of the current dig would have been difficult to deal with subsequently going to tip. With the new wash plant, they are now able to wash this material and make a good clean aggregate from it.

Furthermore, by producing a concrete sand this has reduced their reliance on their silver sand as the new concrete sand can now be substituted in the mix eliminating the purchase of imported silver sand for their concrete.

The main element of the new wash plant is the sand plant which has been designed to recover maximum fines passing 63µm, which Glendinning need to keep in their product, as it is more advantageous to keep that fine element in the bottom of the concrete sand. To achieve this the sand plant was designed with two adaptable hydro-cyclones which work at a much higher pressure which enables them to draw the fines into the product and not lose any fines to the pond.

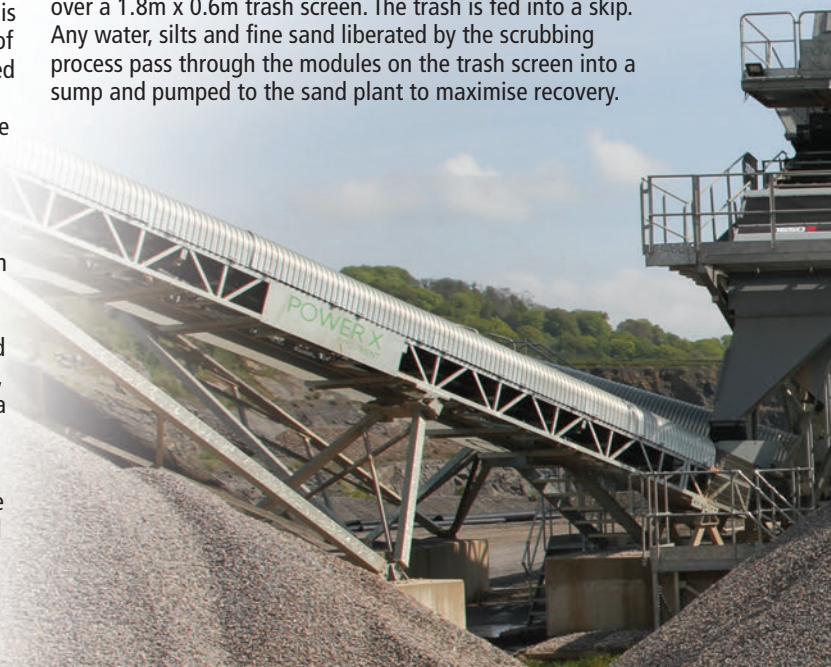
Plant process:

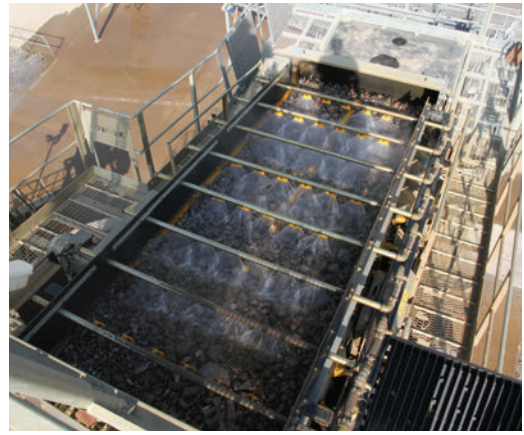
As-dug material is delivered by wheel loader into a 30-ton capacity heavy duty hopper. Material is then fed up a 36m inclined feed conveyor and delivered onto the 6.1m x 1.6m double-deck rinsing screen, where sand drops through the bottom deck with any aggregate greater than 20mm returned on a 36m closed circuit conveyor, under an overband magnet, into a surge bin before being fed in to an impact crusher via a vibratory feeder, with the crushed material returned back to the primary wash screen via the feed conveyor.

Material then passes onto a secondary feed conveyor into the twin-shaft log washer with the blades conveying the material from the feed end of the scrub.



Any organics such as roots are floated off to be dewatered over a 1.8m x 0.6m trash screen. The trash is fed into a skip. Any water, silts and fine sand liberated by the scrubbing process pass through the modules on the trash screen into a sump and pumped to the sand plant to maximise recovery.





The sand plant has two, rubber lined cyclones fed by a single 200/150 pump. The cyclones are manufactured in such a way that the choice of three feed tubes, three vortex finders and seven apices, give the flexibility to fine tune the end product, to the customer requirements. The overflow with minimal losses goes to the lagoon and the underflow is deposited onto the 3.7m x 1.5m dewatering screen before being fed via a polyethylene lined chute onto a 15m conveyor to stockpile.

John Collins – Technical Director at PowerX, commented, “The sand plant was designed in this way as not all feed materials and end result requirements are the same. All of our sand plants are designed to be application specific and not a standard one size fits all ethos. The extra silt requirement reduces the import of other sands, reducing the Glendinning carbon footprint. This is due to the cyclones running at a higher pressure which allows more fines recovery from the underflow. Both cyclones are linked back to the computer with pressure sensors so they can be seen in the office or control cabin.”

The Scrubbed aggregate exits the main discharge of the log washer onto a 2.4m x 1.2 dewatering screen, again the liberated fines pass through the modules and into the sump to be pumped to the sand plant for reclamation. The transfer conveyor feeds the aggregate onto the final 4.9m x 1.5m double-deck dry sizing screen. With the bottom deck split



50/50 - the first half makes a clean 4/6mm product with the second half of the bottom deck making a 6/10mm clean product. The top deck of the machine is decked out to produce a 14mm clean through the top deck, with a 20mm off the end so although a double-deck it is making four clean aggregates. The reason that this screen can do this is the plant has all the material is sized to -20mm on the Rinser.

Material is then delivered to stockpile by four 15m conveyors.

The whole plant consists of heavy-duty galvanised steel support structures, conveyors with galvanised lattice frame construction and covers and galvanised walkways throughout.

Ian Hanniford – Control Systems & Project Engineer, “We are very pleased with the new plant, the product is very good and to the required specifications. We could not fault the build and commissioning of the plant which was all completed by the PowerX engineers who were all committed to working to the very highest standards.”



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Terex Washing Systems Installation at Aggregate Industries Shoreham

Introduction:

Aggregate Industries Shoreham, a prominent supplier of construction materials in the UK, embarked on a significant facility upgrade aimed at enhancing operational efficiency and environmental sustainability. The upgrade involved the installation of new equipment, including Terex Washing Systems wash plant (TWS), to optimize the processing of dredged sea gravel and sand.

Background:

Aggregate Industries is dedicated to driving decarbonization across the construction materials sector and is committed to playing a vital role in the UK's transition to net-zero emissions. The company's focus on sustainability and innovation led to the adoption of low-carbon solutions and a circular economy approach. The facility upgrade at Shoreham marks a milestone in this journey, aligning with Aggregate Industries' goal of becoming the UK's leading supplier of sustainable construction materials.

Upgrade Details:

The new RMX plant, strategically located at the Hove end of Shoreham Harbour, replaced the existing facility in New Wharf, Brighton Road. The upgrade involved the implementation of state-of-the-art, environmentally friendly equipment to replace outdated machinery. This shift reflects Aggregate Industries' commitment to innovation and eco-friendliness.

The decision to relocate and upgrade was made after meticulous planning spanning over three years, with construction commencing in early 2023. The enhanced capabilities of the facility promise a significant boost in output potential and the ability to supply a broader spectrum of

materials, providing a competitive advantage in the Brighton market.

Terex Washing Systems Equipment:

The plant comprises the following Terex washing equipment, each offering specific benefits to the operation:

H Range Feeder: The H Range Feeder ensures a consistent and reliable feed of material into the processing system. Its robust design and precise control contribute to improved efficiency and reduced downtime.

Overband Magnet: The Overband Magnet is essential for removing ferrous metals from the material stream, ensuring the quality and purity of the final aggregates. This helps in meeting quality standards and reducing the risk of contamination.

MPS Cone Crusher: The MPS Cone Crusher is instrumental in crushing the 40mm+ gravel recycled from the process. Its high-performance crushing capabilities ensure the production of high-quality aggregates suitable for various construction applications.

FM120 Compact: The FM120 Compact is a compact sand washing plant designed to efficiently remove impurities and fines from the sand fraction. Its compact design saves space while delivering high-performance sand washing, essential for producing quality concrete.

Deep Cone Thickener and Floc Dosing Unit: These components work together to facilitate efficient water management and sludge treatment. The Deep Cone Thickener aids in the settling of solids, while the Floc Dosing Unit ensures effective flocculation, leading to clearer water discharge and reduced environmental impact.>



Key Features:

Increased Capacity and Efficiency: The upgraded facility with the introduction of the Terex Washing Systems wash plant significantly elevates Aggregate Industries' capacity and efficiency in producing and supplying concrete to Brighton and its neighboring areas. With doubled concrete mixing speed, the company can meet the growing demand effectively.

Product Diversification: The modernized facility enables the production of diversified concrete types, catering to a wide range of construction needs. This includes the introduction of Cemfloor liquid screed product, positioning Aggregate Industries as the sole supplier for this product in Brighton.

Enhanced Logistics: A standout feature of the new plant is the addition of a wharf facility capable of accommodating large-scale aggregates supply via ship. This enhances overall efficiency and logistics of material transportation, reducing carbon footprint and costs.

Sustainability Initiatives: The facility incorporates sustainability initiatives such as electric charging points for cars on-site and utilizes neighboring solar panels, emphasizing Aggregate Industries' commitment to a sustainable future.

Conclusion:

Aggregate Industries Shoreham's facility upgrade, incorporating Terex Washing Systems equipment, signifies a significant step towards achieving operational excellence and environmental sustainability. By leveraging innovative technologies and sustainable practices, Aggregate Industries continues to lead the way in supplying high-quality construction materials while reducing its carbon footprint.

For further details on Terex Washing Systems contact tws.sales@terex.com or visit www.terex.com/washing.

For more information on Aggregate Industries visit aggregate.com



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Located in Finnea, Co. Westmeath, Ireland, the site operated by Harton's Sand & Gravel has been in operation since the early 1960's. The incumbent crushing, screening and washing plant was installed in 1968.

Harton's Sand & Gravel produces washed aggregates and two grades of washed sand for concrete and plastering applications.

Coarse and fine sands were being produced using an old Finlay bucket wheel. A large quantity of saleable fine sand was being lost to the settling ponds. This loss not only affected the specification of the fine plaster sand but also resulted in very high pond maintenance costs. On average, the plant had to be stopped and the ponds had to be dug out once every two weeks.

The challenge

A line of contact was established between Weir Minerals Europe and Harton's Sand & Gravel following the Hillhead exhibition in June 2022, where a Sandmaster™ SP25 was featured on the Weir Minerals Stand. This interaction resulted in a site visit to determine the exact nature of the challenges being faced and to understand the longer-term investment and expansion plans for Harton's Sand & Gravel.



Operational data

PARAMETERS	Incumbent installation	Sandmaster™ SP25	Improvement
Sand Production (mtph)	10	20	+100%
Monthly Production (days per month)	28	30	+7.1%
Production Downtime	every two weeks	-	
Maintenance Cost Savings (USD)		10,816	



The existing bucket wheel solution was producing two grades of sand – coarse for concrete and fine for plaster.

The bucket wheel sand washing technology was old and inefficient, resulting in an average loss of 10% of saleable sand to the settling ponds. Moreover, the fine sand specification was not sufficient for asphalt production due to excessive fine material loss.

Due to the inefficiencies of the technology, these sands were very wet, requiring extended drying time. Additionally, the specification for the fine sand was inaccurate. Fine sand production was approximately 10 tonnes per hour.

The loss of fine material from the sand to the ponds led to rapid filling of the settling pond, requiring biweekly excavation. This involved stopping production during this time and incurred a significant additional cost of around \$46,000 (€43,000) per year.

Given the limited available space near the existing plant structures and the site boundary fence, a compact plant design was deemed optimal for Harton's Sand & Gravel.

The solution

Samples of the sand were taken from the site and it was determined that a Sandmaster™ SP25 would be suitable for the application.

Flow sheet and budgetary offers were developed by the Weir Minerals team and presented to Harton's Sand & Gravel.

The proposed solution was to bypass the fine sand processing on the bucket wheel and instead divert all this flow to the Sandmaster™ SP25 compact sand plant. This would allow the cyclone to recover the fine material being lost to the pond and, at the same time, deliver sand that was dry enough for immediate use.

After some minor adjustments of the cyclone configuration, the plant is now producing asphalt grade sand in accordance with EN 13108-1: 2006.

The Sandmaster™ SP25 solution included a Warman® WGR pump, Cavex® hydrocyclone, Enduron® dewatering screen and Linatex® hose and rubber lining. This particular SP25 also included our Gemex™ belt tensioning system, ensuring the best possible efficiency in the pump drive, saving energy and increasing the wear life of the belt transmission. The solution was fitted with the Gemex™ 160/180 belt tensioning system, delivering significant motor drive wear reduction and energy saving up to 7%.

The results

After a second opportunity to view the Sandmaster™ SP25 in April 2023 the customer placed an order for the solution. This marked the first sale of a Sandmaster™ machine on the island of Ireland. Having the machine available as stock for a quick delivery was a significant factor.

The recovery of the fine material, previously being lost to the settling pond, meant that instead of cleaning out the pond every two weeks, the pond has not needed excavation since the SP25 was commissioned at the end of June 2023.

This has resulted in two additional days of production at the plant and approximately 240 additional tonnes of fine sand produced every month. Fine sand sells for approximately \$16 (€15) per tonne, translating to approximately \$3,903 (€3,600) additional revenue per month, along with significant cost savings on pond maintenance in the region of \$65,000 (€60,000) per year. This additional revenue of approximately \$46,000 (€43,000) per year and cost savings of approximately \$65,000 (€60,000) per year contribute to an ROI of around 6.5 months.

Braian Harton - owner of Harton's Sand & Gravel, said: "Brilliant machine, working even better than we expected."



Screencore Orbiter trommels designed for processing aggregates and CDR material

The Screencore range of Orbiter trommels is available in a variety of sizes, encompassing features making them ideal for construction, demolition, recycling, and aggregates applications. Mobility, productivity, and fuel efficiency have been inbuilt into the expanding range, with Orbiter trommels now found throughout the world working on a variety of materials.



Screencore has since its inception used its extensive expertise to develop and introduce a range of modern, mobile crushing, screening, stockpiling and pugmill solutions. The range has in a relatively brief period developed a reputation that its modern productivity and environmentally friendly attributes are highly suited to aggregate production on a truly global scale. In addition to the processing of virgin rock and the recycling of construction materials, members of the Screencore ranges have also proved to be ideal processing organic materials for composting and other green waste schemes.

"Screencore continuously engages with our dealers and end-users to innovate and refine our products," explains company director Ciarán Ryan. "As a result, we have developed a range of crushers, screens, pugmills, stockpilers, and now trommels, that are specifically designed for the efficient handling and processing of a variety of materials. The new Orbiter trommels, for instance, are particularly adept at producing accurately sized aggregates from primary and secondary sources. Like all our products, the new Orbiter trommels prioritize ease of transport and user-friendliness, ensuring that they meet the practical needs of our customers while setting new standards in the industry."

Recognised globally

The Screencore Orbiter trommel range, as well as other members of the Screencore product range, has rapidly gained recognition globally, particularly Australasia, Africa, Europe, and the United States. For example, in France, an Orbiter 237 trommel, distributed by Screencore's partner Starloc Auvergne, has been instrumental in processing various materials at a specialized recycling site. This model is particularly suited to large scale operations with its +7m (23') drum length and radial fines stacker. Additionally, the Orbiter 237 features a 12m³ (18yd³) dump hopper and is tailored for the largest operators in the industry. "The 1,200mm (48") wide feed belt connects to a load sensing drum, ensuring that the machine maximizes productivity autonomously," explains Ciarán Ryan.



"Each element of the Orbiter 237 is specifically designed to ensure continuous operation without the need for constant operator input."

The Screencore range of Orbiter trommels consists of three models, ranging from the powerful yet compact 125, to the 237, which is aimed at the larger producers. The Orbiter 125 is designed for work sites where space is at a premium and ideal for a contractor who needs to relocate quickly and often. The Orbiter 175 delivers high productivity from a compact chassis and features hydraulic folding conveyors and drum angle adjustment with a large infeed hopper and a Cat 130hp engine.

A new, but yet to be released development, is the Orbiter 206. "The 206 is the very latest Screencore trommel, and we are genuinely excited about it. It will deliver high levels of mobility, cost effectiveness and profitability for its users. It encompasses all the latest Screencore developed and patented features and will be released in Europe over the coming months," explains Ciarán Ryan. "Its 20' x 6' drum is interchangeable with all other similar models, meaning it can seamlessly fit into an existing fleet and enable the utilization of any existing stock of spare drums."

Next Month
July | August 2024



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

ASPHALT PLANT, BITUMEN & CONCRETE PLANT - mobile & static plant, asphalt storage, dryers, burners, control systems, hot oil heaters, spare parts, RAP equipment, modified bitumen, H&S, bulk storage bays, concrete plant & equipment, concrete mixers.



RWM SHOW PREVIEW

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

Editorial copy deadline - 10th July 2024
Advert copy deadline - 17th July 2024



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