



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

May/June 2022 | Issue 74



PREVIEW

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L 566 12.2 l/h*



L 580 13.9 l/h*



L 586 16.6 l/h*

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The Liebherr-XPower range
of wheel loaders returns
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Wheel loaders

* Figures are a guideline based on the actual average of the model's global population in LiDAT and are subject to specific site conditions, materials, application and operator use. See how much you can save with Liebherr's real-time fuel calculator:

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Toughening up: the devil is in the detail for Rokbak



Rokbak's reputation for manufacturing highly reliable articulated haulers on the market is growing, with the new brand representing the continuation of its strong hauling heritage with a future-focused vision.



Company rebrands can sometimes confuse audiences. For example, when Facebook and Weight Watchers shifted to Meta and WW respectively, there were more than a few questions wondering why.

On the other hand, when Terex Trucks announced its name change in September 2021, there were no such questions. That's because it was a natural shift to a new name – Rokbak – that needs no explanation and was immediately understood by customers.

"It's a name that embodies rock-solid strength, robustness and our brand's promise to always have the backs of customers," elaborates Rokbak's Managing Director, Paul Douglas. "Our customers were already referring to our haulers as 'rock trucks' so it made perfect sense. We talked to our dealers and customers about potential new names, and ran research and focus group exercises. Our team found the Rokbak name worked really well across all international markets, instantly conjuring up the sense of power, performance and reliability."

Getting better every day

Since the Motherwell, Scotland-based company became part of the Volvo Group almost eight years ago, Rokbak has introduced multiple improvements with the aim of delivering new benchmarks in terms of hauler power, performance and total cost of ownership.



Perhaps the most recent and immediately apparent improvement in this regard would be the up to 7% reduction in fuel consumption by the emissions-compliant engines of both Rokbak haulers, which are fully in line with the latest EU Stage V standard. The RA30's Scania DC9 provides gross power of 276 kW (370 hp) and a maximum torque of 1880 Nm (1387 lbf ft), more than enough to comfortably transport 28 tonnes, or a heaped capacity of 17.5 m³, while the 38-tonne RA40, with a heaped capacity of 23.0 m³, relies on the 331 kW (444 hp) Scania DC13 engine, with its maximum torque of 2255 Nm (1663 lbf ft).



This efficiency is complemented with transmissions that are not only perfectly matched to each engine but have been carefully selected to deliver class-leading rim pull for superior performance and productivity. The RA30 integrates ZF's 8F/4R EP320 fully automatic gearbox to enable a top speed of up to 55 km/h (34 mph). With a high overall gear ratio spread, equal ratio steps between gears and optimised gear shifting with partial load shifts, its smoother gear shifting not only supports reductions in fuel consumption but higher levels of operator comfort and faster cycle times.

The RA40, meanwhile, can enable faster load cycles by reaching speeds of up to 64 km/h (40 mph) via the 6F/1R Allison HD4560 transmission. With its automatic adaptive shifting capabilities and a pre-selected two-speed transfer box, along with longitudinal and limited-slip transverse differential locks, the hauler is able to deliver excellent performance and productivity in virtually any terrain.

But just as importantly, these transmissions promote higher productivity by virtue of their extended service intervals, not to mention simplified maintenance procedures. In addition to the 6000 hours of uninterrupted uptime it provides for the RA40, for instance, an electronically activated exhaust brake and a six-stage modulating transmission retarder offer the benefit of longer brake component lifecycles. And amongst the full suite of on-dash diagnostic and machine health check data that maximises uptime by reducing intervention time are the prognostics for the transmission, whereby the operator can immediately check the health of the component, including fluid level, fluid life, filter life, clutch life and more.



"One especially well-received improvement to our products in recent years has been the new transmission for the RA30, which provides extended, 4000-hour oil-maintenance intervals and also improves shift quality," Douglas verifies. "The complete drivetrain calibration has even reduced fuel consumption by up to 5% over the previous model."

"Then there's the enhanced hydraulic system of the RA40, which uses magnetic suction filters to reduce the risk of contaminants entering the circuits. This results in cleaner hydraulic oil, prolonging hydraulic component lifecycles and enabling 4000-hour intervals between hydraulic fluid maintenance periods."

Hidden talents

With Industry 4.0 / IoT now enabling a host of amazing productivity-boosting functions and applications across a multitude of industries, what else does Rokbak have in store for operators in coming years?

"We cannot comment on specific innovations in the pipeline, but we never stop learning and improving. Becoming a member of the Volvo Group has allowed us to make major improvements in every part of our business, including a stronger focus on operator wellbeing, so you can expect to see plenty more innovative technologies and design improvements in the future," Douglas teases.

"Volvo Group is a world-leader in autonomous transportation, so there is no doubt in my mind that Rokbak will examine all such developments relevant to our business. But again, there is nothing we can be specific about at the moment!



"Likewise, there are no firm plans to announce any new hauler models at present. Our current range has proven to be a big hit with our customers, and we are focused on ensuring that those machines are the best in the business. However, we do have a well-defined roadmap for new product development that is aligned to the needs of our customers as well as meeting our own goals for improved sustainability. We're looking forward to sharing more news on this when the time is right. Whatever the future holds for our industry, our customers can count on us to provide rock-solid Rokbak articulated haulers to help them deliver better success on their projects..."

On demand

With so many enhancements to its reputation as a result of new technologies and stronger branding, Rokbak is well-placed to capitalise on an articulated hauler market that is booming virtually the world over. Last year's global total sales of around 8,200 units is predicted to grow as high as 9,000 units in 2022 thanks to major infrastructure projects in several key markets.

"We are seeing huge demand for our RA30 and RA40 articulated haulers, with dealers and customers excited to get hold of the new machines," states Guy Wilson, Global Sales Director. "Generally speaking, the market continues to go up and we are seeing strong demand in all regions."

With North American customers currently accounting for about half of the total articulated hauler market, the US is leading demand as a result of its huge current infrastructure investment. The UK is the second largest market, with demand primarily driven by the HS2 rail project that will connect towns and cities in the south, Midlands and north of England.

"It's one of the most important economic regeneration projects in Great Britain for decades and it's already helped the UK articulated hauler market jump from an average of around 400 machines a year to over 700 in 2021 – and it's expected to increase further this year," Wilson elaborates.

"The RA30 and RA40 are being used for preparatory work and transporting materials, including vegetation clearance and earthwork for tunnel portals and compound facilities. The HS2 project will also lead to an increase in the demand for UK aggregate production, which will again create a positive impact on articulated hauler sales."

Making good

Rokbak hasn't just concentrated on enhancing its haulers in recent years – the advances it has made in the sustainability of its manufacturing processes are equally worthy of note too.

As you might expect from a brand of the Volvo Group, the current focus is on emissions reduction. All electricity at its Motherwell factory is now produced from renewable sources, and it is currently transitioning from gas heating and cooling to electric systems, as well as replacing its diesel-powered forklift trucks with electric models to decrease its carbon footprint even further. And although the site is already practically landfill-free, the company is actively working with its suppliers to reduce the volume of materials consumed in the first place.

"We are already starting to address future product roadmaps around our commitments to Science Based Targets (SBT), which means a minimum 30% emissions reduction for our company's operations by 2030 and zero emissions by 2040," reveals Paul Douglas. "The targets we have set ourselves at Rokbak are tough, but I believe they are achievable."

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Welcome to issue 74

Welcome to our first special exhibition preview of the year...

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 huge spotlight on market-leading companies who will be exhibiting at the forthcoming Hillhead Exhibition.

The Hub-4 team will also be exhibiting at the RWM - Lets Recycle Live exhibition at the NEC in September & will also have extra circulation at the bauma exhibition. Previews of both these shows will appear respectively in the July edition and the September edition.

2022 also sees the return of our bi-ennial edition of our **MADE IN IRELAND** special which will be published in the November edition.

Finally, the July edition will feature **MOBILE QUARRYING & EARTHMOVING EQUIPMENT** and I welcome any editorial contributions for this feature.

See you at Hillhead!

John Edwards
Editor

JULY/AUGUST 2022

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.

RWM SHOW PREVIEW

RWM letsrecyclelive
A collaboration of UK events for resource and waste management

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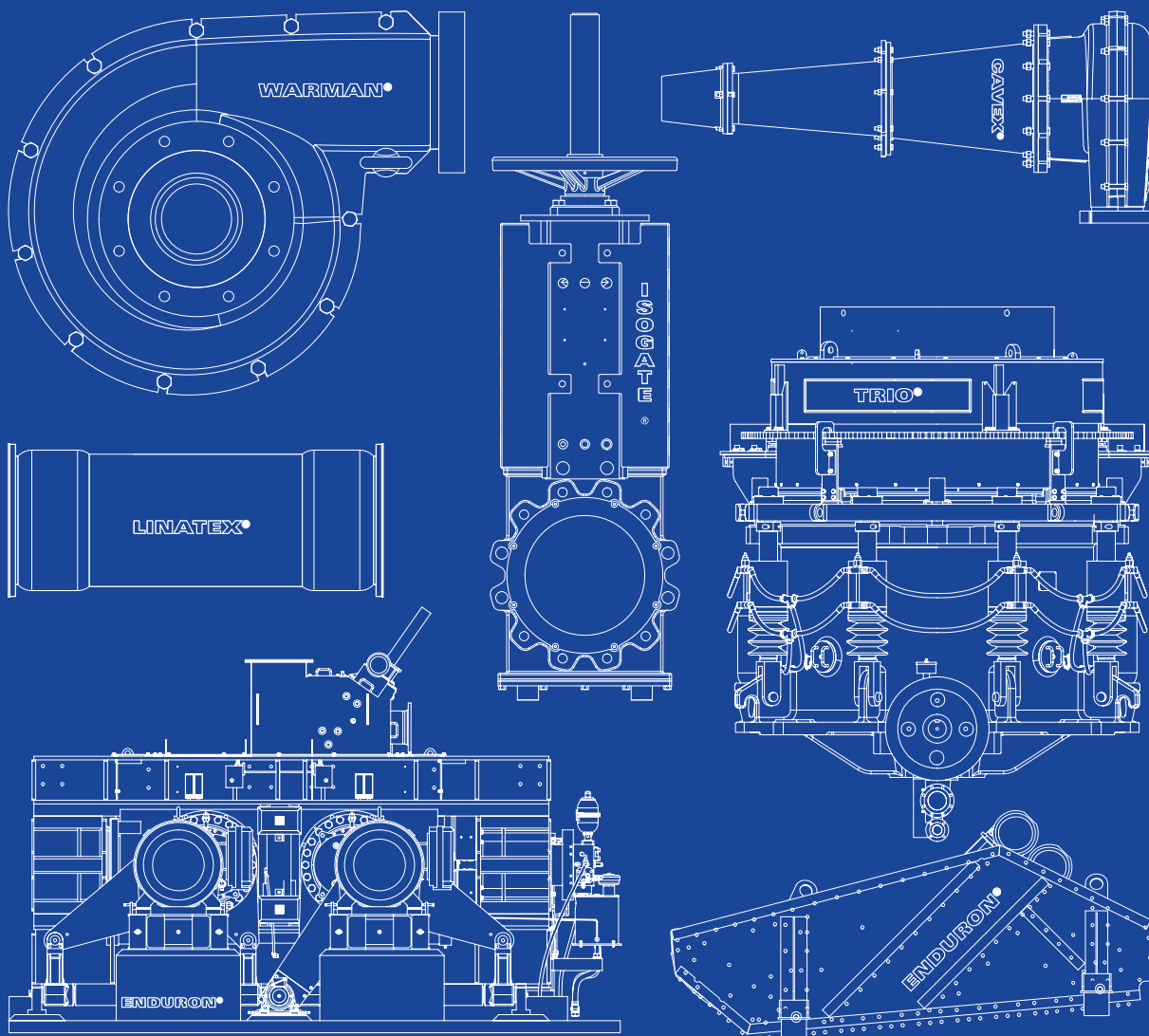


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XPower lessens the fuel blow

When Chancellor Rishi Sunak announced the April 1 removal of the rebate for red diesel used in construction plant, users were warned by a trade body of “crippling” cost increases. One company finding the price hike less punishing than most is Grange Quarry which has recently added fuel-efficient wheeled loaders from Liebherr.

Grange, which operates quarries and concrete batching plants in the south of Scotland, took delivery of an L 586 XPower for use as a production loader at its Kelhead Quarry, an L 566 XPower for Grange Quarry and an L 526 to work at a batching plant at its Lockerbie HQ. The trio followed its first XPower model, an L 580, bought in 2020.

The company has since been enjoying the benefits of the manufacturer’s fuel-saving expertise on the XPower. Latest data from Liebherr’s real-time fuel calculator* shows just how economical the XPower range is but Grange’s loaders are running even leaner than the global average at: 11.4 litres an hour for the 24-tonne L 566, 12.9 litres to run the 29-tonne L 580 and just 15.1 litres on the 34-tonne L 586. >





All three demonstrate the impressive fuel efficiency that is achievable through their XPower CVT (Continuous Variable Transmission) driveline, working in harmony with the Liebherr engines. The CVT driveline brings together hydrostatic and mechanical drive systems and continuously adjusts them to the application, making the machines more efficient during loading and transport and resulting in strong acceleration and performance across all loading cycles.

The L 566 with 4.7m³ bucket works in Grange Quarry handling material coming from the processing plant as well as the outgoing high PSV stone for asphalt production, crushed aggregates and fill material.

The 580, fitted with a 5.7m³ rehandling bucket, joined the fleet in 2020 after the company completed its search for a slightly larger and more productive loader to replace a competitor's machine. Even then, diesel cost was an important factor in the selection process. Looking into the future, the company said at the time: "Fuel is an important factor, especially with the potential of an increase in duty next year."



The heavyweight of the company's XPower trio is the 33-tonne L 586, a front-line production machine fitted with 6m³ rehandling bucket. It works at Kelhead alongside a mobile crusher loading processed material into a dump truck which then transports the material for secondary processing, washing, or simply for export from the site.

With an operating weight of 13 tonnes and powered by a 4-cylinder, 127hp engine, the L 526 is the smallest of Grange's four Liebherr loaders and a typical application sees it handling and distributing raw materials coming into the yard from the company's own quarries. It reaches its performance levels via hydrostatic transmission continuously driving through both axles to provide traction on the steep ramp to the batching plant's hoppers.

Ensuring fuel consumption is low and machine availability high is the job of Operations Manager Robbie Dodd who has

responsibility for ensuring each site meets its production targets. 'If we can't handle the material effectively and continuously it has a huge effect on our business. We have run a number of manufacturers' machines over the years and have been very impressed with the over-all package Liebherr put to us for our loader fleet.'

Grange Quarry is a family-owned business formed in 2000 by Stuart and Lynn Dodd and also runs a number of Liebherr truck mixers.

The XPower wheel loaders were introduced to the European market at Bauma 2016, with six models in the range.

Model	Operating weight	Engine Output
L 550 XP	19 tonnes	163 kW/ 222 HP
L 556 XP	20 tonnes	183 kW/ 249 HP
L 566 XP	24 tonnes	203 kW/ 276 HP
L 576 XP	26 tonnes	218 kW/ 296 HP
L 580 XP	29 tonnes	233 kW/ 317 HP
L 586 XP	34 tonnes	263 kW/ 358 HP



'We've got an app for that'

* Liebherr's real-time fuel calculator for construction machines is an app that allows users to determine the potential savings that can be achieved when using a Liebherr compared to a competitor's machine.

As well as wheeled loaders, various other machine types including wheeled and tracked excavators, dozers and loaders, and crawler cranes are already stored. Data for the material handling machines of the LH series is available in different configurations for the recycling, scrap, forestry and timber industries and more machine types are due to be added.

The basis for calculation is the average fuel consumption, the operating hours per year and the current fuel price.



Grange's loaders are running even leaner than the global average at: 11.4 litres an hour for the 24-tonne L 566, 12.9 litres to run the 27-tonne L 580 and just 15.1 litres on the 33-tonne L 586.



Superior builds world's largest telescopic stacking conveyor...again

Superior Industries, Inc., a US-based manufacturer and global supplier of bulk material processing and handling systems, recently completed design and manufacturing work on what they're considering to be the world's largest telescopic radial stacking conveyor.

The brand-new TeleStacker® Conveyor model is a 48-inch-wide by 210-foot-long telescoping conveyor (1220mm x 64m). It's capable of building 425,000 ton stockpiles (315,000 cubic yards). Superior says the record-breaking stacker will be used to unload dry bulk ships along the Atlantic Coast in Florida.

Operators at the port will take advantage of the TeleStacker Conveyor's PilePro™ Automation. This user-friendly, Superior designed and supported system automatically controls the stacker's actions while building partially or fully-desegregated stockpiles. Some popular features include pile volume reporting, maintenance triggers and diagnostics screens.

In 2022, Superior is celebrating 25 years of manufacturing its famous TeleStacker® Conveyor. During that time, the conveyor has earned a reputation as the best tool for defeating costly material segregation while bulk stockpiling. Superior says it manufactures about a dozen standard sizes and is always willing to customize every inch of the conveyor for premiere performance in any application.

Rubblemaster Dungannon

Rubblemaster Dungannon wish to announce that they have ended their co-operation with Mr Iain Herity on good terms and thank him for his commitment, diligence, knowledge and industry applied during this period. Both parties wish each other the very best for the future.

DRS charity open day returns

Direct Rail Services (DRS) is delighted to announce that, after a two-year absence, their charity open day returns.

The open day shows behind the scenes at one of the UK's leading rail freight operators and is an event for all the family.

Visitors will get to look around the company's maintenance depot at Gresty Bridge, Crewe, sit in the driver's seat of a variety of locomotives, ask questions to industry experts and much more. There will also a naming ceremony for the locomotives and their new nameplates unveiled.

This is the first time the event will take place with DRS as part of Nuclear Transport Solutions (NTS), marking another chapter in the company's rich history.

Tickets cost £5 for adults with under 16s free and all proceeds are used to aid UK charities and other deserving community causes.

Gates will open at 10am on Saturday 16 July and close at 4pm.



Chris Connelly, Rail Director and NTS's Deputy CEO, said: "I'm thrilled that we're able to host our fantastic open day this year after a long absence.

"It's been a tough couple of years throughout the pandemic so it'll be great to get out and have a celebration of rail with some old friends and hopefully many new ones.

"The money raised from the open day goes to help charities, community projects and good causes across the country and we're really proud of the support we provide through this fabulous event."

Edge Innovate - win a second Queen's Award for International Trade



EDGE Innovate has been honoured with a prestigious Queen's Award for Enterprise. EDGE Innovate now joins

an elite group of companies to have won multiple Queen's Awards having won their first Queen's Award in 2019. Announced today (Thursday 21 April), EDGE Innovate has been recognised for its excellence in International Trade. EDGE Innovate is one of only seven companies to achieve two Queen's Awards for Enterprise in 2022. Employing 170 people directly, the family owned company was set up in 2008. EDGE Innovate develops, manufactures, markets and exports sophisticated technologies for shredding, stacking, screening and sorting of primary and secondary raw materials in production processes and recycling. The company currently exports 94.4% of their products outside of the United Kingdom from its 187,000ft² manufacturing facility within Co. Tyrone. The family run brand has developed a strong presence throughout overseas markets such as North America, Australia, and Middle East.

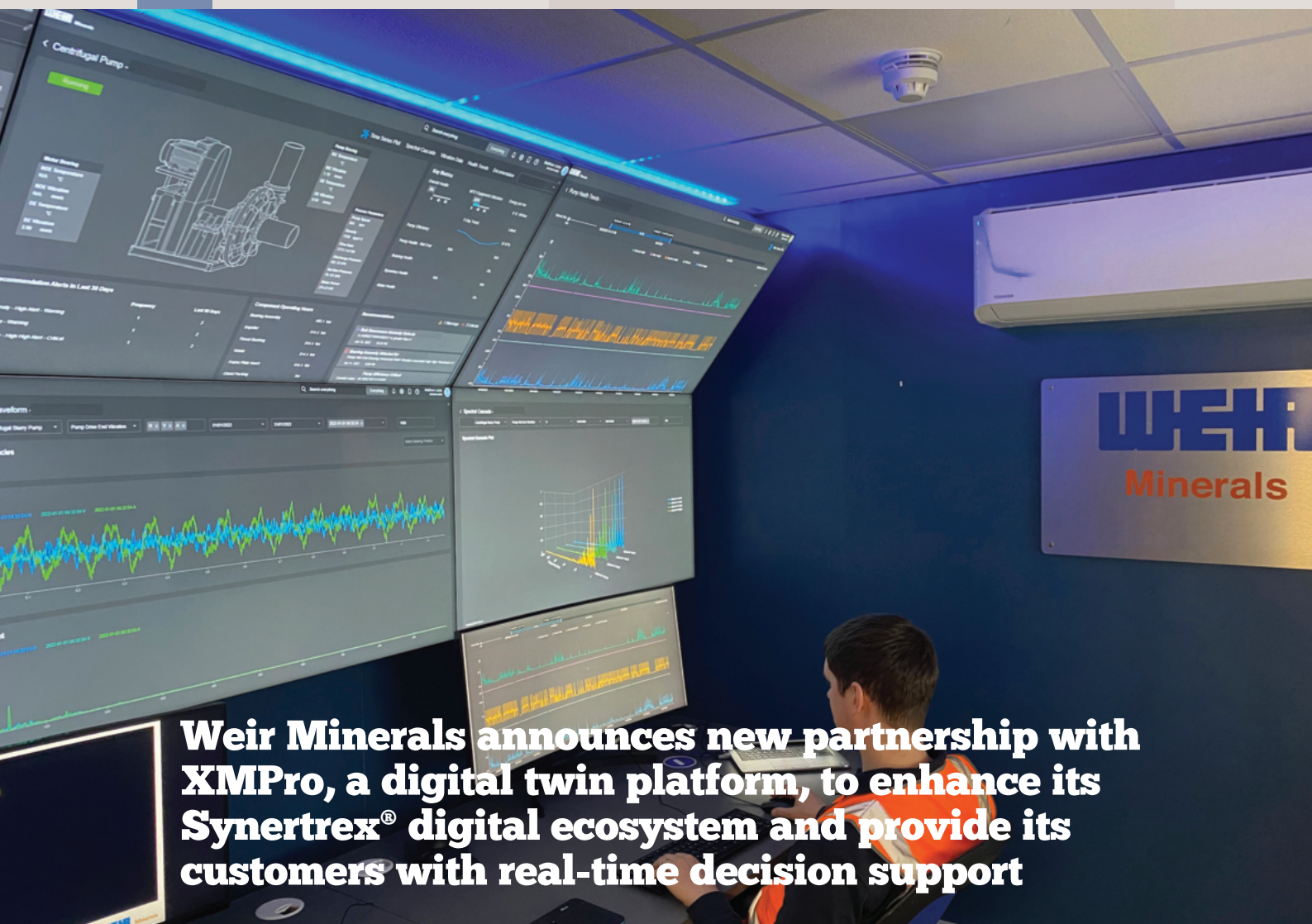
"The team at EDGE Innovate are absolutely delighted to win the Queen's Award for Enterprise. This award is recognition of the hard work and resilience of all our stakeholders over the last three years, especially during the time of the pandemic. With staff suffering from covid, isolating and with enforced lockdown, it has been an extremely challenging period. I want to thank our entire team for their help during this time. We have worked together as a tight knit unit, focusing on delivering for our customers. To our suppliers who have been faced with their own difficulties, thank you for your support. To

our customers who have had to deal with long delivery times and increased costs, thank you very much for your patience. EDGE is a growing organisation and working closely with all our stakeholders in the context of mutual respect and teamwork has allowed this growth to continue over the last three years. Continual growth during the pandemic is remarkable and a testament to who we all are and how we conduct ourselves. We accept this award as recognition of that success" Darragh Cullen, EDGE Innovate Managing Director.

Now in its 56th year, the Queen's Awards for Enterprise are the most prestigious business awards in the country, recognising and celebrating business excellence across the UK. EDGE Innovate has demonstrated outstanding success in its respective field of international trade. It has been an exceptionally hard few years for businesses and this achievement is testament to the resilience of the entire EDGE Innovate business network has shown through these unprecedented times.

EDGE Innovate currently export both its material handling and recycling equipment to almost 70 unique countries via a 50 strong distributor network. The company has experienced exceptional growth with exports rising from 85% in 2016 to 94.4% in 2020. Given the growth trajectory, the company has successfully completed the construction of a new 37,500ft² facility to house a new paint shop and stores facilities. This expansion has resulted in a 30% increase in production capacity.

EDGE Innovate also have plans to start construction on a new Customer Welcome Centre to house our ever-expanding sales, marketing and aftersales departments. The new, improved, larger manufacturing facilities and office space will enable EDGE Innovate to increase its production capacity and allow for the introduction of new production lines for the latest product innovations in an efficient manner, with the aim of increasing; EDGE Innovate's sales volume and exporting figures even further.



Weir Minerals announces new partnership with XMPPro, a digital twin platform, to enhance its Synertrex® digital ecosystem and provide its customers with real-time decision support

Weir Minerals has announced a new partnership with XMPPro, a leading digital twin platform. The partnership will enable intelligent equipment and services and support miners to achieve higher performance while also reducing the environmental footprint of their operations.

The XMPPro platform – as a part of the Synertrex® digital ecosystem – will facilitate the delivery of event intelligence, predictive analytics, and real-time insights. It allows for data orchestration and value creation from multiple sources, including sensors, miners' digital ecosystems, and data only available to Weir Minerals as an OEM, like maintenance data and 3D engineering models.

The platform identifies critical events by applying AI and predictive analytics, which will provide Weir Minerals' customers with the next generation of predictive services and recommended actions. XMPPro facilitates easy collaboration between reliability engineering and operations by providing real-time information and equipment insights, viewed via mobile devices and the Synertrex® intelligence web portal.

Weir Minerals also recently signed a digital partnership framework for strategic cooperation with AVEVA, an end-to-end pioneering industrial software provider. Weir Minerals will utilise the AVEVA PI System to collect and contextualise IIoT data streams, which will become the IIoT data foundation of its Synertrex® digital ecosystem.

Ole Knudsen, Weir Minerals, Director Digital, said:

"XMPPro takes an actionable and collaborative approach to data that closely aligns with our Synertrex digital ecosystem.

It is a platform ensuring maximum customer value from all the data we collect, ranging from equipment and process data to the in-house data we have access to as an OEM. We see the multiple data source approach as essential to build the holistic digital twins providing "intelligence" to our customers in terms of insights, predictiveness, and recommendations allowing for a proactive approach to maintenance planning and execution.

Within the foreseeable future, we see these platforms and the building of the multiple data-source digital twins providing even more value for Weir Minerals and our customers, which is enabled by closing the loop between real-time operations, equipment design, and manufacturing."

Pieter van Schalkwyk, CEO XMPPro, said:

"The partnership between Weir and XMPPro creates a unique opportunity for mining companies to accelerate their digital transformation journey for complex assets. It combines Weir's deep domain expertise and rich asset information models with XMPPro's class-leading real-time, operational digital twin platform. This combination provides unique insights, prescriptive maintenance and operations recommendations for users of Weir's extensive range of mining equipment.

It has been a pleasure working with Weir's engineering team, who are not only deep domain experts on mining processes but also have a clear vision of their roadmap for digital solutions that provide real-time operational intelligence for the overall mining value chain. We are excited that XMPPro is the platform that Weir chose to deliver these capabilities to end-users."

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UK equipment dealer, Molson Group, acquires Powerscreen of California, a market-leading material processing equipment supplier

Molson Group, the UK's leading independent equipment dealer with a turnover of £350 million, has completed a deal to acquire US-based equipment dealers, Powerscreen of California who operate in the State of California, Hawaii and Nevada.

A key factor in the acquisition is Molson's Smart Platform, which Molson has developed specifically to run equipment businesses. With its ERP system, multi-brand e-commerce sales module, data analysis portal and training academy elements, Smart Platform allows dealers to achieve significant operational efficiencies with immediate effect.

Robin Powell, group Managing Director of Molson Group, says that the acquisition is significant not only because it's Molson's first international acquisition, providing significant growth opportunities, but because both Powerscreen of California (and its equipment partner Terex) recognise the value of Smart Platform. "We created this platform to run equipment dealer businesses smoothly and efficiently, allowing smaller businesses, who would not have the capital to develop their own systems, access to a tech platform that has been developed specifically for equipment businesses with all their peculiarities and variations.

"Powerscreen of California was keen to maintain its individuality and way of working, whilst benefiting from acquisition by a larger group like Molson: this is possible because of our technology platform." Powell says that the Powerscreen of California product range will evolve to mirror the 360° approach that has been so successful at Molson but through gradual, collaborative change.

Powell adds that Molson Group was in a unique position to develop this industry-changing platform, as it has the benefit of both scale (as £350m turnover business) and agility, since Molson is independent, with no legacy systems in place or dominant supplier imposing their own systems, as can be case with larger equipment businesses. He says: "This platform gives us unique leverage to buy companies and consolidate

the sector. We are excited by what this means for the future of Molson Group and for the sector as a whole." Further acquisitions are expected for Molson in the US, leveraging the IT platform, and launching a new phase of growth for the Group.

The Powerscreen of California leadership team is also excited by the opportunity for growth and expanded resources that the Molson acquisition will bring, whilst allowing the organisation to remain largely unchanged, and strengthen even further its commitment to industry-leading customer support.

Paul Campbell, Owner and Director of Powerscreen of California, says: "For almost 40 years, my company reputation has been built on the diligence of our people and close relationships with our customers. Molson Group is a highly respected and progressive dealership and there are clear synergies between our organisations. We believe this presents us with a tremendous opportunity to build upon our strong legacy.

"I'm very excited for the future direction and the growth expectations for the business and allows us to maintain the business personality and ethos."

Molson is already an established supplier of Terex products in the UK, and this strategic expansion to represent the manufacturing giant in the US further strengthens the relationship with Terex.

Kieran Hegarty, President – Terex Materials Processing commented: "The Molson Group is already a valued Terex partner, with distribution rights for other Terex lines in Great Britain. This acquisition allows us to strengthen our relationship with this vibrant and progressive business. We are particularly excited with the benefits that this acquisition will bring, both for our customers in the States of California, Hawaii and Nevada and for our business. Synergies within the existing Molson organisation will provide the depth required to consolidate the excellent growth experienced by the Powerscreen of California in recent years and will guarantee industry leading customer support."



Metso Outotec launches their next-generation Metrics solution



Metso Outotec is launching an upgraded version of Metrics, an innovative cloud-based tool for real-time monitoring for aggregates customers' Lokotrack mobile crushers and screens. The new remote monitoring solution will bring significantly better connectivity and optimization benefits to aggregate customers' crushing processes. The solution has been developed together with distributors and customers and offers several state-of-the-art features supporting customers to achieve their sustainability and operational targets.

The new Metrics features include CO2 tracking for sustainability benefits, 24/7 access to real-time data, a maintenance module, critical dashboards for utilization, and geolocation. Furthermore, the new Metrics allows remote troubleshooting, the user interface can be tailored to address different customer needs. New features and functions can be also updated remotely.

Delivering more production hours and tons

By combining the new Metrics with our global service footprint, Metso Outotec and its distributor partners can support customers in making data-driven decisions that impact their crushing and screening operations.

"We wanted to develop a next-generation solution that will bring quantifiable value and deliver more production hours and tons to our customers. The key to building sustainable operational efficiency is having the correct information to make decisions and select the right combination of services to

lift the bar. Metso Outotec Metrics for aggregates connects mobile crushers and screens, providing increased real-time data visibility and analytics to improve availability, performance, reliability, and profitability," says Merja Tyyni, Vice President, Standard Crushers, Metso Outotec.

The Metrics solution is part of Metso Outotec's Planet Positive portfolio.

In addition to the improved speed of data transmission, new features will continually be developed. One new feature currently in development is integrated mass flow measurement for tracking production and waste to help customers quantify their production performance.

Metso Outotec Metrics for aggregates generates a strong link between the customer operations, product management, and product development.

"The new Metrics will enable us to take equipment features and customer experience to a new level by improving our customers' equipment's performance and increasing both uptime and the overall machine life-cycle," says Kimmo Anttila, Vice President, Lokotrack solutions, Aggregates business area, Metso Outotec.

Metrics built-in to new equipment and Retrofit Kits for legacy machines

While newer Lokotrack machines come equipped with Metso Outotec Metrics, legacy equipment can in most cases be modernized and integrate equipment digital connectivity with a Retrofit Kit. In the first phase, the Retrofit Kit is available for certain Lokotrack crushers and screens.

AGG PRO and Lippmann announce partnership



Steve Peterson, Tom Elgin, Charlie Eastwood and Fintan Harkin pictured in front of a Lippmann 1200j-e.

Quarrying and recycling specialists Agg Pro have today announced that they have been awarded the exclusive distribution rights for Central England, Southern England and Wales for the Lippmann range of crushers, screeners and stackers.

Lippmann is a leading player in designing and building crushers, screeners and stackers that are tailored to their customers' specific needs and business goals.

Formed in 1923, Lippmann has built their reputation for premium quality solutions from their philosophy that is based upon creating the heaviest and most durable machines in the industry.

Commenting on the announcement, Managing Director Geoff Caves said;

"Lippmann needs no introduction; they are a brand that have designed and manufactured quality aggregate processing equipment for close to a century.

"The customer is at the core of everything they do. This mirrors our approach which makes for a great working relationship moving forward."

Geoff continued; "We are immensely proud to be one of the first to bring Lippmann to the UK market. We want what's best for our customers and adding Lippmann to our portfolio only serves to increase the quality and range we can offer our customer base."

Kevin Kiesgen, Vice President of Lippmann commented on the announcement;

"Agg Pro has supplied quarry equipment for over 25 years and have amassed an abundance of loyal customers that value their unparalleled aftercare and levels of service.

"Their vast experience within the UK high demand quarry sector, via sales directly to the quarry owners and also through crushing contractors, will work really well as our initial UK focus will be to offer our heavy duty crawler mobile jaws, cones and screens with diesel and electric powered models available."

Kevin continued; "I can see many of similarities between the company ethos at Agg Pro and at Lippmann, which excites me for our potential together. We cannot wait to get started and look forward to exhibiting our products at the famous Hillhead Quarry & Recycling Expo in June."

More details including the full range of Lippmann products can be found at www.agg-pro.com/LippmannProducts

Hanson provides low carbon concrete solution for Gatwick station

Hanson is supplying low carbon concrete to help transform Gatwick Airport station as part of Network Rail's plans to upgrade and improve the experience of rail users.

To date the company has supplied approximately 3,000m³ of low carbon concrete to main contractor Costain to refurbish the existing station concourse and build a second, bigger one which will create a new entrance into the airport.

The concrete, which contains 70 per cent Regen GGBS (ground granulated blastfurnace slag), provides the correct durability requirements while saving more than 500 tonnes of CO₂ emissions over a standard concrete – the equivalent of 500 people making a return flight between Paris and New York.

Regen GGBS is used as a replacement for some of the Portland cement (CEM I) content in concrete. GGBS is a by-product of the iron making industry and its manufacture requires less than one third of the energy and produces less than 10 per cent of the CO₂ emissions of CEM I. It also does not require the quarrying of new materials and its use prevents material being disposed of as landfill.



Calvin Blacker, Costain's design manager for the Gatwick station project, said: "Hanson was chosen as our materials supply partner due to its proven track record for innovation in lowering the carbon footprint of concrete within its supply chain.

"We have worked closely together to deliver concrete that meets the challenging requirements of the project while adding to its low carbon credentials."

Network Rail's plans will create more space for passengers, making the journey from train to plane easier, improving accessibility and supporting a more reliable train service. They will double the amount of space for passengers and support movement around the station and in and out of the airport.

The project is being managed by Network Rail in partnership with the Department for Transport and Govia Thameslink Railway. Gatwick Airport Ltd and Coast to Capital Local Enterprise Partnership are co-funding the project with £37 million and £10 million respectively. The project is being delivered by Costain.



PREVIEW

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Armcon exhibit market leading products

Since the last Hillhead show in 2018 there have been huge changes at Armcon Limited with the introduction of the first British designed and built volumetric concrete mixer and the sale of the business to the staff.

On the 1st February 2021 Armcon became an employee owned business and with a new management team, has set off on a completely new path with a big change of culture within the business.

The new Armcon is all about customer and product excellence and showcasing the talent that exists within the British workforce. This talent has produced the Duralight which is the only British designed and manufactured volumetric concrete mixer in the world and the only one capable of producing 8 cubic metres of any mix of concrete. This has been achieved by introducing the first polymer cement bin to be seen on any volumetric mixer and by using stronger but lighter steel through our partnership with Strenx. The Duralight also has a unique mixing auger design which has resulted in longer lasting wear blades thus reducing operator costs.

Another big change since the last show is the Armcon precast concrete business which has undergone a complete rebrand and is now a division within the Armcon Group. As part of our exciting global expansion plans, a new General Manager, Bruce Fraser, has joined the business and is looking forward to showcasing our market leading products to both UK and international visitors at the Hillhead show.





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PowerX Equipment at Hillhead



The main focal point for this year's Hillhead stand is a brand new TG320 Cone Crusher. The new bronze bushing TG Series cone crushers are a valuable addition to the world leading Cedarapids Cone Crusher Range. It comes fitted with the ACE7 cone automation control system as standard, the new evolution in cone management. With its user -friendly interface and advanced technology the ACE7 system will continuously monitor the cone's operational parameters and make the necessary adjustments to ensure consistent peak performance. Visitors can see this impressive new cone crusher and learn more about its capabilities and performance.

In addition to the TG320, PowerX Equipment have designed their stand to be spacious and welcoming to customers with indoor and outdoor hospitality and seating. The indoor area has a bar and the outdoor area has a BBQ area offering a different menu each day. The stand also has a separate meeting room for customers wishing to discuss their requirements in more detail.

Their expert team will be on hand to answer any questions on their range of washing, crushing and screening equipment.



Stand H6

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Four Years of Change



Rubber Screen Cloths

Over the last four years since Hillhead 2018, the world has been changing more than ever and is still going through large fluctuations, here at SCS this has been no different.

As everyone is aware the first major event came in the early part of 2020, with the effects of the global pandemic starting to be felt in the UK and the introduction of restrictions unheard of in most peoples' lifetimes. As with all businesses in the UK we were constantly learning how we could operate whilst keeping our staff, customers, and suppliers safe. This seemed like a daily upward learning curve, but we worked hard to keep our doors open for business and ensure all staff remained employed with no detrimental measures undertaken.

Unfortunately, more difficult news was to arrive at the beginning of March 2020 with the sudden passing of our Sales Agent, Peter Woolfson who looked after the South-West region for nearly two decades. Peter was a well-respected and familiar figure in the quarrying industry, working nearly his entire adult life in various facets of the trade. He will be sadly missed, but not forgotten.

The beginning of April 2020 brought some good news, as SCS welcomed the arrival of two babies within two days of each other, one of them to Mark Martin, our General Manager. In May 2020, SCS celebrated another new arrival, in the form of a second screen mat punching station. This significant investment was made to ensure continuity of service and help with the rise in demand for punched screen media such as rubber screen cloths and polyurethane flip flow mats.

After over 30 years of working in the quarrying industry Malcolm Rowe, Managing Director of SCS retired in June 2020, after nearly 15 years with SCS. Malcolm's relentless work ethic and knowledge of screening will be missed. The role of Managing Director has been passed on to Mark Martin,

who will continue to support OEM and distributors with the backup of internal sales staff. Alongside this SCS has also expanded its sales force to four Sales Managers: Peter Burn (Northern), Alex Cox (Central), Karl Houghton (South East) and the South West which is currently vacant.

2020 was saving the saddest news until last, at the start of September Graham Martin lost his battle with Pancreatic Cancer, at the age of 77. Graham founded SCS in 1991 which formed the second half of his working life after serving in the RAF for 25 years. Graham was a well-loved and respected character within SCS and the industry. He has been sadly

missed and will always form part of the foundation of SCS; he instilled high moral values such as honesty and integrity, and a legacy of providing unrivalled professional and knowledgeable service, all values we are proud to uphold as a company.



Malcolm Rowe (Left) and Graham Martin (Right)

Close to the end of 2020 SCS and Smiley Monroe came to a mutually beneficial agreement for SCS to buy out Smiley Monroe's screening business which was being sold to enable Smiley Monroe to focus and expand on its core business in the conveyor belt sector. Both companies benefiting by strengthening their positions within their respective markets.



Screen Mat Punching Stations



The UK departing from the EU came at the end of 2020, resulting in an unsure start to 2021. The year had its own surprises ahead, with some COVID restrictions still in place and companies introducing their own precautions, 2021 was set to be a demanding year. The marketplace came alive again with several large building projects going ahead and many small projects being carried out. This resulted in high demand for materials, but strained availability due to supply chain interruptions, with companies struggling with staffing from COVID restrictions or absence. Further to this, added costs from additional post Brexit paperwork has meant that prices begun to climb in many sectors. With heavy increases in metal and polymers of which all SCS products are made from. In 2021 we dealt with more price increases from suppliers than in the previous four years combined, adding to continuous supply issues, and strains on delivery timescales due to demand. In September 2021 SCS proudly reached its 30-year anniversary, celebrating a year which will be remembered for a long time as one of the most challenging in its history.

2022 has continued with the same challenges faced in 2021 with the hope that the markets will calm down and prices for goods will stabilise. When Russia invaded Ukraine, the whole world was rocked with another unprecedented event that will affect so many people. SCS has worked for many years with sites in the Ukraine; to show support for the people of Ukraine SCS has sent food and medical supplies and along with them we send our best wishes to the people caught up in this war and hope for a swift and peaceful resolution.

SCS is widely renowned for its screen media products, namely: polyurethane modules, rubber screen cloths and polyurethane screen mats. These along with its lining options in rubber, polyethylene and polyurethane make up the backbone of SCS product range. However, SCS would like to shine the spotlight on some of its lesser-known products.

SCS has a range of primary and secondary scrapers with polyurethane blades and tungsten carbide tipped blades. The most popular is the polyurethane head scraper designed by Graham Martin, due to its simplicity of design, ease of maintenance and low cost. If you keep your eyes peeled at Hillhead and you will see many of these scrapers on various bits of equipment. Alongside this sits the tungsten carbide secondary scraper which can be used in tandem with a primary scraper or on its own.



SCS Primary & Secondary Scrapers

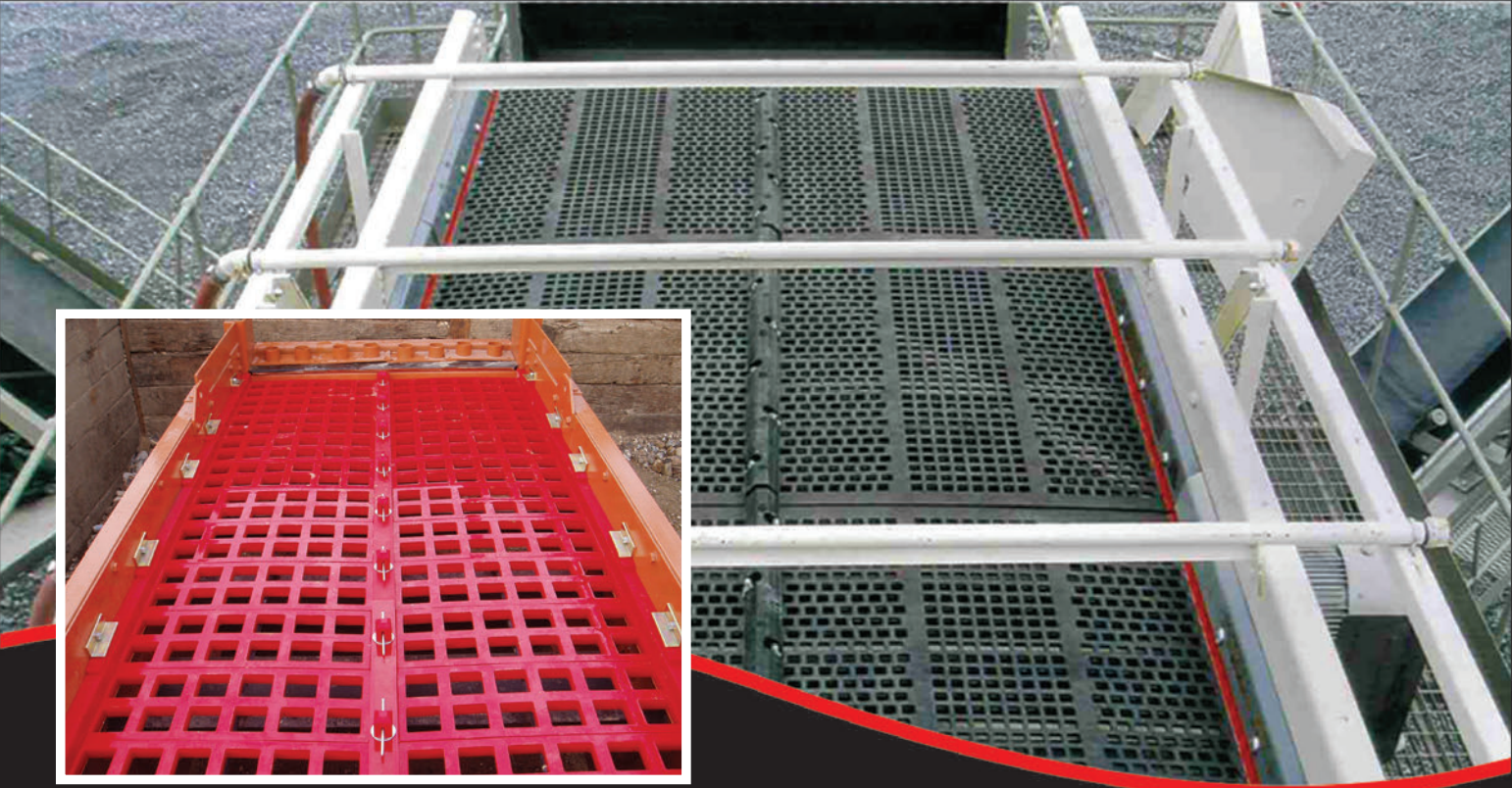
SCS holds over 20 tons of steel backed rubber that is used as a wear resistant lining material. It is supplied in two forms: standard square tiles or bespoke manufactured liners cut and drilled to suit. This type of liner is excellent for its impact and wear resistance and can be easily changed without specialist labour.

Another unsung hero is our range of polyurethane lined pipe and bends, which can be used to increase the wear life of standard steel pipework or are a good alternative to rubber pipes and bends.

After the exit from the EU even more strain has been levied on British industry and no more so than in the manufacturing sector. SCS is proud to be the largest British synthetic screen media manufacturer with ties to all parts of the United Kingdom. Now more than ever, with the world in such unpredictable times, SCS appreciates the continued support from our loyal customers. We look forward to seeing some of you at Hillhead.



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Tons of news. Tons of material processed, literally

For the first time, MB Crusher will exhibit at the Hillhead show in 2022

We are looking forward to welcoming you to the stand Y1 where you can find the full MB range of attachments to fit your heavy equipment. It will be the perfect opportunity to see, the rotary screening bucket, the grapple and those interchangeable rotors of the shafts screeners line or ask our consultants questions about the twin drive system of the drum cutters, or just simply see first-hand MB Crushers' units. Also just around the corner, there will be a padding bucket demoing.

SAVE THE DATE: From the 21st of June, Buxton will have three days packed with machinery and equipment. So we have decided it was the ideal time to show our NEWEST models of shaft screeners. They are game-changers.

Why you might wonder? Because of their versatility and performance, let's give a couple of hints to this statement. In most sites, you see a digging bucket attached to the excavator, simply because it is used for a variety of tasks. This seeded the idea.

And what we made are two sorting machines, that resemble a digging bucket, while capable to do much more. Obviously, in the new units, we kept our signature feature, the possibility to easily exchange the shafts at the site.

So this is it. A tool that is practical, easy to use and capable of delivering high production. As always 100% made in Italy, and on show at the stand Y1.

Out of the several reasons why we decided to exhibit at Hillhead this year the one that prompted us the most to come to this scenic quarry, is the fact that now more than ever there is a need to recover and process materials. To be independent.

The material shortage is hitting all industries causing delays and inconveniences. We will be at Hillhead offering the solution to avoid waiting for material to be delivered by attaching one of our units directly to your excavator, skid steer or loader. Does not matter how big or small your carrier is, we will get you covered!

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Zero waste top of the agenda for CDE at Hillhead product showcase

CDE, one of the leading suppliers of sand and aggregate wet processing solutions for the natural processing and waste recycling sectors, has revealed its Hillhead product showcase and announced details of how attendees can get up close with the expert-made equipment.

The company will be attending Hillhead 2022 in Buxton, UK, from 21-23 June. Over its 30 year history, CDE has been engineered for zero waste with its wet processing solutions at the forefront of the evolution of sustainability across both natural and waste recycling. CDE collaborates with customers to create solutions that maximise the use of natural resources in the quarrying industry while extracting the valuable resources contained in waste streams in the recycling industry.

Equipment on display will include CDE's R-Series™ primary scalping unit (R4500™), AggMax™ logwasher and counter flow classification unit (CFCUT™).

CDE's R4500™ was created to handle the most troublesome materials, including heavily clay-bound mineral and waste materials, offering high-energy screening of material and oversize removal before it enters the AggMax™ logwasher for scrubbing and classification.

The AggMax™ technology is engineered to operate in the toughest of conditions to maximize product yield from the most abrasive and clay contaminated of feedstocks. Combining feeding, scrubbing, screening, and sizing on one chassis, the AggMax™ is suitable for a variety of material streams – sand & aggregates, overburden, scalping's, C,D&E, soils utility arisings, muck away and trommel fines.

The CFCUT™ provides an effective system for removal of lightweight contamination from fine material fraction. Its unique features provide sand classification by mass & density where water is used to suspend particles at the cut point. The CFCU also provides the added benefit of being able to tailor the final sand gradation specific to its end use. Transforming the most difficult feedstock and waste streams into high quality concrete specification sand.

Visitors will have the opportunity to see the plant up close, as they are guided by CDE experts around the equipment that will be installed at sites across the UK to customers Ace Liftaway (CFCUT™), Peel Group (R4500™) and Scott Bros (AggMax™).

Commenting on CDE's attendance at Hillhead, David Kinloch, Director of Business Development – UK and Ireland at CDE said: "The equipment we will host on display at Hillhead will highlight the benefits of CDE technology in contribution to a customer's environmental aims and commercial goals. We will discuss how these innovations are being applied by leading organisations globally and in the UK, with those we work in partnership with available to share their experience.

"We will be presenting three innovative pieces of CDE technology that demonstrate our commitment to engineering excellence, and to ensuring our customers are investing in superior quality plants that contribute to creating a better world, one tonne at a time. A large number of the UK & Ireland team from our Business Development, engineering, project delivery and aftercare departments will also be available to share further insights to how our products help customers immerse themselves in the evolution of sustainability within their sectors.

"We are looking forward to marking our anniversary of 30 years of CDE. During this time we have been co-creating with customers to deliver collaborative, imaginative and unique wet processing systems with over 2,000 successful projects. We look forward to celebrating this at our first major UK exhibition since the beginning of the pandemic and coming together with those attending the event – from existing customers to new connections."

For more information about CDE and its wet processing solutions, visit CDE at Hillhead, where the team will be located at stand A9, close to the registration pavilion. You can also request a meeting with the team in advance via the CDE website, cdegroupp.com/hillhead





Hybrid saves up to 25% on fuel costs

Electrification and digitalisation are a win-win for RM customers

Sharply rising fuel prices, legal requirements for emissions, expanding your business, and environmental protection - there are many reasons for switching to hybrid machines. As a pioneer in electrification, RM Group has been engineering crushers with electric drives for 30 years. This expertise is integrated into RM hybrid crushers and screens. Two of these crushers and an RM MSC8500e mobile hybrid screen will be on display at Hillhead in June.

Saving a quarter of your fuel costs sounds extremely interesting, and not just in times of rocketing fuel prices. This is how it works: On RM hybrid crushers, an electric motor drives the crusher rotor. The electric drive compensates for peaks in power demand during operation, allowing the diesel engine to run at a constant speed without fluctuations. The result is a much lower fuel consumption - up to 25 percent lower, as proven by field data from RM crushers recorded by the new RM XSMART Fleet Management and Condition Monitoring tool. Even if the RM hybrid machine is running on diesel 100% of the time, it saves up to 60% in annual operating costs compared to a hydraulic machine, because in addition to lower fuel consumption, costs for hydraulic oil and servicing are also reduced. "Low running costs have a massive impact on the total cost of ownership of the machine. That is why, despite the higher initial cost of hybrid systems, they often pay for themselves in just a few years," agree Paul Donnelly, Managing Director of Red Knight 6, and Ian Burton, Sales Director of Taylor & Braithwaite. Both of the RM Group's UK sales partners will be demonstrating and explaining the RM 100GO! hybrid to visitors at this year's Hillhead show. If you combine a hybrid crusher with a hybrid screen, you can even achieve fuel savings of up to 30%. A combination will be on display at

RM Group's stand at Hillhead: the RM 120X crusher and the RM MSC8500e hybrid screen. The savings calculator on the RM website also provides a detailed comparison of your potential savings. Reduce costs. Increase performance. - RUBBLE MASTER



Emission-free crushing and screening with just one energy source

With a hybrid crusher or hybrid screen, it is also possible to operate purely electric and emission-free. This opens up completely new application possibilities for tunnel construction sites, inside buildings, and in city centres. RM crushers easily comply with the strictest legal requirements in terms of exhaust, dust, and noise emissions. For example, an RM customer in Latvia recently purchased an RM 100GO! hybrid - the same as the one on display at Hillhead - to crush dolomite electrically and to be able to meet the high legal requirements for road construction. Thanks to the intelligent networking of the RM NEXT Generation machines, a crusher like the RM 120X hybrid can also power the RM MSC8500e, or both can be plugged into the mains power supply.



This RM 100GO! hybrid is processing dolomite into value aggregate to be used in road construction.



RM XSMART means customers always have fuel consumption, throughput and all the key parameters of their RM machines with them on their laptop or mobile phone.

Effective fleet management with the RM XSMART app

Whether it's fuel consumption, maintenance intervals, throughput, operating hours, or pinpointing the location of RM equipment - RM XSMART is the digital assistant that keeps all this information available at any time using your smartphone, tablet or computer. This RM Group Fleet Management and Condition Monitoring tool uses real-time machine data to simplify the everyday work of machine operators, workshop managers, rental fleet managers, deployment coordinators and owners. "We don't want our customers to waste time doing paperwork for their machines. We want our customers to make the highest profit, and we want to provide them with the best service. That's also why we are focusing on digitalisation," says RM CEO Gerald Hanisch. With just a few clicks, the data can be broken down to a defined time period. Because the operating hours are recorded automatically, it is no longer necessary to manually log hours at regular intervals for invoicing or as proof for the authorities.



Ace Plant showcase their enhanced range of products

With nearly 50 years of experience in plant hire and sales, we at Ace Plant have been manufacturing and supplying Dust Suppression solutions and Bunded Fuel Storage equipment for many years.



With dust at work being one of the largest issues in terms of site health & safety, we actively engage with our clients to enrich the range of dust limitation equipment available.

Environmental responsibility, particularly in the storage and handling of Diesel and AdBlue, remains a significant factor in the process of developing our new Bunded Fuel Storage products.

With the Hillhead 2022 Quarry Show just around the corner, it is a very exciting time for us here at Ace Plant and we look forward to showing you our enhanced range of products. Make sure you pay us a visit on

stand H10 to explore our range of mobile and static Dust Suppression equipment as well as our 'Bundie Bowser' Bunded Fuel Storage range. We are also excited to show you our improved and patented Bucket Bundie fuel bowser which can be repositioned around site using a loading shovel without the need to switch to pallet forks.

Our stand will also feature an appearance from our friends at TRIME UK who will be exhibiting a range of their 'Teknospray' Dust Suppression equipment.

Within the demonstration areas of the show, you will be able to watch ours and TRIME's Dust Suppression equipment in operation proving both mobile and static Dust Suppression throughout the event days.

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VEGA Controls at Hillhead

Did you know about New Bitumen Hazardous area requirements?

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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 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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40-year old Hillhead still attracts Bunting

The first Hillhead was held in 1982 and over those 40 years Bunting has manufactured and supplied thousands of magnetic separators and metal detectors for use in the aggregate and recycling industry. Once again, Bunting is exhibiting at the 2022 show, helping companies solve metal separation and detection problems from stand C9.

TN77 Metal Detector in a US aggregate quarry

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.

Bunting started exhibiting at Hillhead under the name of 'Master Magnets' in the 1980s. Both Magnetic Separators and Industrial Metal Detectors have evolved since 1982, becoming stronger, lighter and more efficient. Hillhead 2022 provides the perfect platform to showcase the latest metal separation technology including the ElectroMax and ElectroMax Plus Overband Magnets.

ElectroMax-Plus Overband Magnet

The development of the ElectroMax Overband Magnet followed user requests for stronger and lighter Overband Magnets for mobile plant. As one of the world's largest producers of Permanent Overband Magnets for mobile crushers and screens, companies turned to Bunting to design a light and powerful electromagnetic version. When compared with Permanent Overband Magnets, the air-cooled ElectroMax Overband Magnet has an average increase in magnetic power of 185% matched by a weight reduction of 25%. The ElectroMax-Plus further increases the magnetic power of the ElectroMax by at least another 105%. Since the magnetic separator's launch, the ElectroMax is proving popular with mobile equipment manufacturers and users, as well as static plant suppliers and operators (i.e., quarries and recycling plants).

Total Metal Separation and Detection Solution

In a quarry or mine, tramp metal causes costly and time-consuming damage to screens, crushers and conveyor belts.



At Hillhead, the Bunting team will explain how to prevent such issues by installing suitable magnetic separators and metal detectors.

Bunting's range of Industrial Metal Detectors, including the models TN77, QDC and QTA, detect and enable the removal of tramp iron and manganese steel (e.g., non-magnetic digger teeth). The Metal Detectors are commonly installed with an Overband Magnet or Pulley Magnet to provide the ultimate tramp metal protection.

Recovering Metal

Overband Magnets are also used to recover ferrous metals from recycled materials (e.g., steel beverage cans). However, since the first Hillhead in 1982, the emergence of the Eddy Current Separator for recovering non-ferrous metals was a defining moment for the recycling industry. The technology is now widely used in plants recycling waste from households, construction, wood, plastics and many more.

The Bunting range of Eddy Current Separators continues to evolve, enabling the separation of both large and small non-ferrous metals. Many are mounted on mobile plant for batch processing waste stock piles in situ.

"Hillhead has been always been an important exhibition for us," explained Adrian Coleman, the General Manager of Bunting-Redditch. "With many of the exhibitors also being customers, the show provides the perfect platform to meet and discuss projects."

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VISIT US ON
STAND M17



Tyrone International redefine the gold standard of wash plants

Tyrone International offer game-changing wash plant solutions today, designed to solve tomorrow's challenges. Opening new worlds of opportunity for a more sustainable, efficient, and profitable future for our customers, partners and the wider construction, mining, waste & recycling industries.

From single modular products to complete turn-key installations, Tyrone International have redefined the gold standard of Wash Plants with our extensive industry experience and commitment to innovation, including Wet Classification, Water & Sludge Treatment, Screening, Scrubbing & Attrition.

We are delighted to be exhibiting at the Hillhead exhibition this year and will be displaying the Tyrone T-Scrub 1600 wash plant.

Designed to wash and thoroughly clean the most difficult recycled aggregates this machine can process 150tph and produce four washed aggregates and sand which is pumped to the T-Sand 125 for further classification. With a robust design and incomparable access to reduce cost of ownership and maximise plant utilisation.

We look forward to welcoming customers onto our stand to show them the latest innovation in the industry and explain how we can add value to their aggregate processing business.





Crushers and screeners – from Pronar



Pronar is experiencing dynamic development onto the next level. Whilst celebrating the manufacturing of the 1000th recycling machine, the company is introducing the next range of products, these are jaw crushers, impact crushers, scalping screens, and inclined screens.

Pronar is a well-established brand in the recycling industry. Manufacture of the 1000th machine (Pronar MPB 20.55gh trommel screen in special golden color) has been achieved since the introduction of their recycling product portfolio a decade ago. Continuous development of their machine range proves that the company is a serious player with big plans for the future.

Introduction of jaw crushers, impact crushers, scalping screens and inclined screens is a step towards extending existing recycling machines line-up. Until now it consisted of trommel screens, slow-speed shredders (also capable of crushing concrete), high-speed shredders, compost turners, belt conveyors, wood chippers and baling presses. This makes Pronar the first brand in the market with such a wide,



specialized portfolio. All those machines come from the factory in Siemiatycze (Poland) which has recently expanded to accommodate production lines for crushers and screeners.





The first machines to be introduced within the crushing and screening range are the Pronar MJC6510 jaw crusher and Pronar MPP1238s scalping screen.

The Pronar MJC6510 jaw crusher is equipped with a 1015x650 inlet opening. The gap is set hydraulically without the need for any tools. This can be done both on the control panel, and from the remote control. The operator thus gains the ability to adjust smoothly the size of the material without having to leave the cabin, and only watching what comes out of the machine as a final product. Jaw wear is reduced thanks to the pre-screening system, which can direct the material to the side or main conveyor.

The jaw in the Pronar MJC6510 are driven by hydraulics which allow for smooth operation and enable the reverse mode to be engaged without additional equipment. Continuous operation in this mode is also possible.

The Pronar MPP1238s vibrating screen is a three-fraction machine equipped with decks with a size of 1500x3800 mm (5x12.5 ft). Thanks to the durable structure of the hopper (option of equipping with an apron feeder), it is possible to screen material with a maximum size of 500 mm. The machine can be adjusted to suit various customer needs. There are different types of screens to choose from - perforated plates (different holes shapes), wire meshes or slotted grates. Each of them can be easily assembled in vibrating box. Regardless of the type, they can be adapted to the requirements of a specific application.

The design of the Pronar MPP1238s provides the possibility of switching the mid-size fraction conveyor to the opposite side. This quick transformation from three- to two-fractions machine improves its versatility greatly.

The growth and constant massive investments into new factories, production technologies and gifted human resources (3000 employees) definitely pays off. Even now, despite big demand, Pronar can keep up with short lead times and deliver machines on time. That is because most of the components are manufactured in-house. These are metal frames, pneumatic and hydraulic elements, axles, tracks, or gearboxes.

Manufacturing many components by themselves, makes Pronar less prone to broken worldwide delivery chains. This is the principle that has guided the company from the very beginning, over 30 years ago.

If you are interested in seeing the new product line from Pronar, visit stand A16 at the Hillhead show.





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STOCKPILERS



CRUSHERS



SCREENERS



**STAND
A16**



Automated Monitoring and Reporting System for Conveyor Belt Cleaners

In a move to continue its leadership in the development and implementation of advanced technologies for conveyors and other bulk material handling applications, Martin Engineering has announced a conveyor belt cleaner position indicator that monitors the blade, tracking and reporting remaining service life. The intuitive Martin N2® Position Indicator (PI) monitors primary belt cleaner blades, notifying Martin service technicians and plant operations personnel when re-tensioning or replacement is required and/or when abnormal conditions occur. The PI can be part of a new installation or directly retrofitted to existing mainframes that use the company's replacement blades. Managers and service technicians can quickly access info on any networked cleaner via cell phone.

With approximately 1000 operating systems currently in service and installations continuing daily, the technology has been embraced by bulk material handlers in a wide range of industries and applications. Designed in-house by the engineering team at Martin's Center for Innovation (CFI), the N2 Position Indicator is produced solely in company-owned facilities to ensure the highest standards for quality control. In fact, the firm also engineered and built the proprietary equipment used to manufacture the new devices.

Martin offers the equipment, monitoring service and batteries free of charge to qualifying customers. The company will also support the PI components and provide customer alerts without cost as needed, with mainframes and tensioners replaced free for users of Martin belt cleaner blades.



The N2 PI notifies service personnel when a cleaner requires re-tensioning or replacement.

"There are no annual maintenance fees, and no add-on charges for cell phone access," confirmed Martin Engineering Global Marketing Director Brad Pronschinske. "Most customers using our cleaner blades can take advantage of this technology."

Position indicators can be mounted anywhere from 3-800 meters (10-2,625 feet) from the cellular gateway, and the robust, sealed construction means it is virtually immune from damage. Up to 50 units can be monitored by a single gateway connecting to the Internet, usually located at the highest point in the plant, where the cell signal is strongest. The system does not require a cellular line for each PI, instead communicating via radio frequency from each sensor to the gateway.

Operating independently of any plant communications infrastructure, the small physical size and low power requirements deliver a projected battery life of two years. The self-contained model was developed by Martin in order to minimize the dependency on in-plant resources. Only the gateway requires a constant 110V power point.

The device eliminates the need for manual inspections by giving technicians precise information, delivering critical real-time intelligence and reducing exposure to moving conveyors, improving both efficiency and safety. Maintenance planning is simplified by having detailed information available on demand, allowing service personnel to deliver and install replacement wear parts during scheduled outages.

The result is an improved return on belt cleaner investments. Replacement parts can be scheduled for just-in-time delivery, and installation can occur during planned downtime instead of emergency stoppages. "By monitoring the rotation of the belt cleaner mainframe, the N2 Position Indicator helps managers plan tensioner adjustments and blade replacements during scheduled outages," Pronschinske added.



Employees and service technicians can quickly access info on any networked cleaner via cell phone.



Stand RA19

Patented Conveyor Belt Cleaning Technology

From a worldwide leader in bulk material handling comes the acclaimed CleanScape Belt Cleaner, an innovative conveyor belt cleaning system that has received the Australian Bulk Handling Award in the "Innovative Technology" category for its design and potential benefits. The patented cleaner features outstanding performance, low belt wear, extended service life, reduced maintenance and improved safety, ultimately delivering lower cost of ownership. It has been proving itself in a wide range of applications, including mining, coal handling, quarrying, cement, scrap and other bulk handling operations.



Unlike conventional belt cleaners that are mounted at a 90 degree angle to the belt, the CleanScape Cleaner is installed diagonally across the discharge pulley, forming a three-dimensional curve beneath the discharge area that conforms to the pulley's shape. The unique design incorporates a matrix of tungsten carbide scrapers and is tensioned lightly against the belt to prevent damage to the belt or splices. Despite extremely low contact pressure between belt and cleaner, it has been shown to remove as much as 95% of potential



CleanScape Cleaner designs are certified by ATEX and can be used in underground mining.



Unlike conventional cleaners mounted perpendicular to belt travel, the unique CleanScape design addresses the belt diagonally.

carryback material. The novel approach has been so effective that in many operations, previously crucial secondary belt cleaners have become unnecessary, saving further on belt cleaning costs and maintenance time.

The CleanScape Cleaner protects the belt with its specific application of low force and is ideally suited for both slow and fast conveyor belts, including those with mechanical splices. With its compact size, the design is an excellent solution for areas with restricted space. It can be located either inside or outside of the transfer chute, and the straightforward installation typically requires less than two hours.

CleanScape Cleaners are generally sold in three sizes: S, M, and L, which cover drum diameters from 270mm to 1250mm (10.6" to 49.2") and belt widths from 300 mm to 2800 mm (11.8" to 110.2"). Each size is available in four different carbide metal grades to suit specific materials and belt structures, one of which is a carbide formulation developed for use on mechanically spliced belts. The supporting components of the assembly can be specified in regular steel or in stainless for specialized applications. All of the CleanScape Cleaner designs are certified by ATEX and can be used in underground mining.

"The CleanScape Cleaner represents an entirely new dimension in belt cleaning, and we're so confident in its performance that we provide a money-back satisfaction guarantee," said Robert Whetstone, Managing Director for Martin Engineering Europe.

See us on stand RA19



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Over the last 30 years, CDE's wet processing solutions have been at the forefront of the evolution of sustainability.

We collaborate to create solutions that maximise the use of natural resources in the quarrying industry while extracting the valuable resources contained in waste streams in the recycling industry. We are diverting materials from landfill while producing high-quality, in-spec sand and aggregates for use in the construction industry.

Join us at Stand A9 at Hillhead 2022.
Find out more at cdegroupp.com/hillhead



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TEREX MPS



Wash Recycling – from Feeder to Filterpress

With hundreds of tonnes of Construction and Demolition (C&D) and excavation waste being stockpiled each year, a system that can recycle this waste into a saleable product has environmental as well as financial benefits to aggregates producers. This is exactly the solution SAPA, a Geneva based asphalt manufacturer, had been seeking when they began to investigate a way to recycle the waste they were sending to landfill.

Terex Washing Systems were tasked with finding a solution to this problem, which resulted in the design, manufacture and installation of a complete end to end construction and demolition wash recycling system. Everything from the feeder to the filterpress was included in this installation, which manages to achieve throughputs of 100 tonnes per hour.

C&D and Excavation Waste

The feed material is made up of excavation waste as well as construction and demolition waste. A H12 and H20 Feed Hopper receives loads from the shovel and removes oversized stones (larger than 100mm) from the material, thanks to the 100mm gaps in the feeder grid. These oversized stones are stockpiled for later use. Since occasional pieces of metal were present within the feed material, an over-band magnet has been installed after each of the feed hoppers.

The H12 Feed Hopper can be hydraulically tipped to prevent feed material from being lodged between the bars. This is controlled remotely from the cab of the shovel for safe operation.



Screening, Scrubbing and Classifying

After oversized stones and any metals are removed from the material, it makes its way up the main conveyor to be fed into a 12x5 2 Deck Rinser. This 12x5 Rinser gives the material an initial wash and classifies the material into two different sizes—with larger rocks and stones being fed towards a Terex MPS Impact Crusher and the rest making its way to an Aggrescrub 150 Log Washer. At this point, most of the sand is separated from the aggregates and is pumped towards the FM 120 C-2G Sand Plant.

The Aggrescrub 150 Log Washer uses two counter-rotating shafts fitted with a combination of AR500 blades and paddles to introduce energy into the feed material, causing the aggregates to rub and scrape together. This stone on stone attrition liberates conglomerates and breaks down the clay. The clean aggregates are then passed on to a 16x5 Horizontal 3 Deck post screen. >



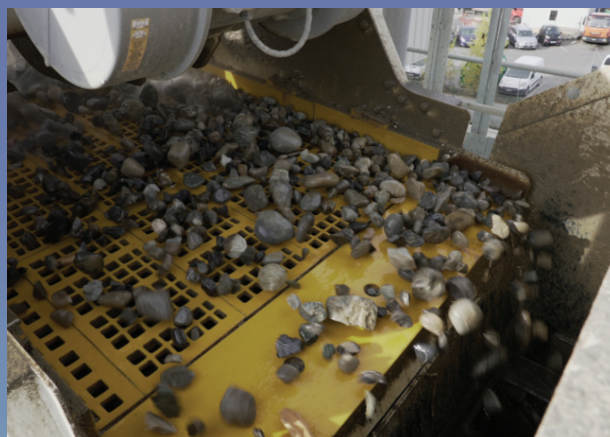


Once on the post screen the stone gets a final rinse to remove any residue left over from the intensive scrubbing process. The material is then separated into three different products and transferred to the relevant aggregate stockpile conveyor. From here it drops into individual bays ready to be sold. The organics and light weight trash float out the back of the hull onto the 6x2 trash screen. The organic matter, wood and plastics are dewatered into a skip ready for disposal. Any fine sand which is carried out with the wash water is recovered at this point and returned to the sand slurry sump.

The spray bars and manifold on the post screen are fixed to the chassis of the machine and are not in contact with the vibrating screen. This ensures vibrations are kept to a minimum and the lifespan of the spray bars are dramatically increased. Operators can also dynamically manage the amount of water being used in this post screen with each spray bars control valve.

Impactful Crushing

With the smaller aggregates washed, classified and stockpiled for sale, the larger rocks and stones previously separated from the feed stock are directed towards the Terex MPS Impact Crusher. The H20 Feed Hopper removes any oversized rocks and an over-band magnet removes any metals before they make it to the crusher. A surge bin helps to manage the flow of material to the crusher, where stones are crushed to a more



desired size before being fed back onto the main conveyor. From here another over-band magnet removes any metals that may have been dislodged during the crushing process. Stones and rocks that have been reduced to the appropriate size are then washed and classified, while oversized material will be passed through the crusher again.

Barry McMenamin, Business Line Director for Terex Washing Systems, spoke of the importance of the impact crusher within this plant, saying "With the amount of stone and rock within the feed material, the impact crusher is essential for this plant to operate efficiently. The washing elements have been designed to integrate seamlessly with this specific crusher, which is important for reducing downtime and increasing through put".





Fine Sand Cleaning

The water that has washed the aggregates up until this point in the process along with the sand is collected in the sump of the FM 120 C-2G Sand Plant. This plant consists of a collection tank, centrifugal slurry pumps, separators and a 12x5 high frequency dewatering screen. The slurry is pumped to the primary separator for an initial wash. The underflow discharges onto the dewatering screen where it receives a further rinse. Any fine sand which passes through the screen is collected in the sump and pumped to the secondary separator for a final wash. Two washes of the material at the SAPA site was necessary due to the high percentage passing 63-micron in the feed.

After this double wash process the two in spec grades of sand are dewatered on the high frequency dewatering screen, which reduces residual water content in the final product to 10-15%. The water from both separators containing the minus 63-micron material is collected in a ground sump and pumped into the deep cone thickener tank—where the water management process begins.



Aquaclear Water Management

The waste water is pumped into a deep cone thickener with flocculent added along the way, thanks to the flocculent dosing unit present within the central control room. Within the deep cone thickener, the waste particles of silt and clay combine to create a larger heavier particle that sinks towards the base of the cone. The flocculent dramatically speeds this process up and allows the clean water to weir over the top of the deep cone into a collection tank, where it is recycled back into the wash plant.

The slurry that has been collected at the bottom of the deep cone

thickener is pumped into a buffer tank, where it is stored until enough volume is gathered. At this point it is transferred into a filterpress.

The filterpress is used to recover the last remaining water within the silt and clay. A total of 150 plates are used on this side beam filterpress, that has a working pressure of 16 bar (232 psi). Each plate is covered in a nylon filter cloth, which when filled with sludge under pressure, forces the remaining water to be removed from the sludge. This water is then recycled back into the wash plant to be used for washing aggregates and sand once again.



After the water has been squeezed from the sludge, bomb doors below the filterpress open and the hydraulic ram begins to decompress. The slurry cakes are then rapidly discharged into the bay below the filterpress. Particularly sticky cakes are removed with a pneumatic plate shaker that ensures all the plates are ready for the next cycle. The cakes below can then be re-used for several applications, such as lining for ponds.

In this case SAPA opted for an automatic cloth wash system so that the lifespan of the filter cloths could be extended while optimum performance is ensured. This system cleans each cloth individually using a high-pressure water jet. Johnston Patterson, Product & Applications Manager at Terex Washing Systems explained that, "This water management system recycles 95% of the water used for this application. SAPA only needs a small tank of water to top up the system every so often. This has a hugely positive impact on the environment and has financial benefits."

The result for SAPA is the sustainable production of usable and saleable sand and aggregate product from C&D and excavation waste. This also has the environmental benefit of being diverted from landfill. Additionally, the water management products recycles the dirty water from the process and returns a clean water back to the process again for use.

Johnston Patterson explained that, "the customer is very pleased to have a solution in place to recycle their C&D and excavation waste. The working relationship between Terex Washing Systems and SAPA has played a huge part in achieving a high level of performance for this plant."

To learn more about Terex Washing Systems or how they can assist you in your wash recycling needs, please contact tw.sales@terex.com or visit www.terex.com/washing





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McLanahan to display at Hillhead 2022

McLanahan Corporation is excited to bring their largest display yet to the Hillhead 2022. McLanahan will be located at booth T1, where visitors can see the latest solutions from McLanahan, as well as learn more about the company's complete line of equipment that includes everything from crushing and screening to washing, classifying and tailings management.



During the show, McLanahan plans to display the UltraWASH 6206 for the first time in Europe. The UltraWASH 6206 is capable of being configured to produce up to three clean aggregate and two washed sand products and is part of McLanahan's complete line of modular systems. For years, McLanahan has designed and manufactured wash plants such as these, and now provides them in a modular design that can be sized and selected to meet a standard range of processing requirements. These plants are designed to be energy efficient and include patent-pending maintenance features that make performing maintenance safer and simpler. They can also be supplied with a state-of-the-art control system that allows for remote monitoring and adjustments.

McLanahan's latest tailings management solution, a Decanter Centrifuge will be on the stand. This machine provides an alternative to Filter and Belt Presses, while improving tailings handling, helping to eliminate settling ponds, improving water recovery and meeting environmental regulations. Already successfully used in the aggregates industry in Europe, McLanahan's Decanter Centrifuge separates waste material to create a liquid that can be reused as process water and a solids cake that is suitable for mechanical handling.

Additionally, show attendees can visit McLanahan's booth to learn about their expanded line of crushers and screens. A McLanahan UltraCRUSH Modular Cone Crusher will be on display, along with an Anaconda J12 Jaw Crusher, which features a McLanahan Universal Jaw Crusher. Anaconda Equipment, part of the McLanahan Family of Companies, will also have a DF514 Scalping Screen in Booth T1. ,



Sales staff and product experts will be on hand to answer questions about how McLanahan can provide a solution for your application and discuss how to maximize your profitability. McLanahan Corporation provides proven processing solutions backed by their renowned service and support. For more information, visit www.mclanahan.com or contact enquiries@mclanahan.uk.com





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Blue Group showcase brands on two stands

Blue Machinery provide market leading materials processing and handling equipment into the quarrying, construction, and recycling industries across the UK & Ireland. At this year's show Blue will be occupying two stands. Our main stand located at J10 will showcase our range of world leading attachment brands including Rammer, Allu, Fortress, OilQuick, Xcentric and more. Whilst we will also be co-located with Powerscreen on stand L4, who will be exhibiting a range of crushers and screeners on the stand and in the live demonstration area.

Following the recent restructure of Murray Plant, attachments are now sold through the three regional Blue businesses: Blue Southern, Blue Central and Blue Scotland, with Scotland keeping the Murray Plant name within their area (operating as 'Murray Plant – A Blue Scotland Company'). Our attachment specialists from Blue Southern, Blue Central and Murray Plant will be located on stand J10 to show off all the latest equipment. This includes Rammers' range of hydraulic hammers and demolition tools suitable for 1t-150t excavators. Allu's line up of premium processing buckets, suitable for 3t-120t excavators. The world's

number one shears brand – Fortress, who supply shears suitable for 20t-200t excavators. OilQuick's quick coupling systems, seen by many as the world's number one quick coupler. Xcentric's range of crushing buckets, suitable for 15t-50t excavators and much more.

We are also looking forward to exhibiting alongside Powerscreen again on their stand located at L4.

Powerscreen will showcase five new models at the show including, the Titan 2300 recycling scalper, the Chieftain 1700x inclined screener and a working demo of one of the most important machine launches in their history. They will also be using the show to share their latest digital technologies, including the launch of a new app. Blue will have a branded entrance to the stand, with plenty of reps on hand to welcome customers to the stand and answer any queries. Blue Machinery Spares will also be exhibiting some of their OEM Powerscreen parts.

With Blue Central and Blue Scotland recently announced as dealers for the MDS brand, we look forward to joining them on their stand. Whilst Blue Central became distributors for Doosan back in January, so you can be sure to find us with them too.

We missed seeing everyone in 2022, so we look forward to a successful show and are excited to welcome visitors to both stands J10 and L4.





Red Knight 6 Ltd brings Crushing & Screening Partners to Hillhead

This years Hillhead show will see Red Knight 6 (RK6) take their first stand, bringing their key partners to the show. Brands such as Komplet, CMB and Nordmann will be represented on the RK6 stand with a range of machines, ideal for the crushing and screening industry.

Since the RK6 business was founded in 2015 the company has continued to grow and today represents some of the most important companies in the material recycling world. In addition to those on the RK6 stand some of the other partners have their own stands and will be demonstrating machines at the show. The RK6 Stand – J8



Komplet

Italian manufacturers Komplet will have a number of machines from their compact range on the RK6 stand. Komplet build a range of crushers and screens that will work in any size of yard, ideal for those who might be tight for space, need high degrees of manoeuvrability or are looking to build an accessible hire fleet. The Krokodile shredder has been enjoying incredible success in the recent months and will be one of the lead machines on the stand. Weighing 14 tonnes, this twin shaft shredder is highly compact and flexible and is capable of producing up to 200 tonnes per hour (material dependent). RK6 have sold a number of these machines in the last few months and customer feedback has been very positive.

Alongside the Krokodile will be the Kompatto 221 the most compact and flexible screen in the Komplet range and is ideal for processing soil, compost, and C&D waste. With a rapid set up time and ease of use the Kompatto 221 is ideal for small scale operations or hire fleets. The Kompatto 221 has a 2200 x 1100mm screen box and is capable of producing 80 tonnes per hour (material dependent).

Nordmann

RK6 offers the 19 tonnes jaw crusher, the T-750 from Irish manufacturer, Nordmann. With a 700 x 500 jaw and a diesel over electric power source. With a robust frame the T-750 can be ready to get to work just 10 minutes after being unloaded. The tracks offer high manoeuvrability, and the T-750 is capable of processing between 40 and 100 tonnes per hour, depending on the material.





CMB International

CMB International produce the RC150 Rubble Crusher, a trailer mounted jaw crusher that can be towed by a standard 4x4, meaning it offers the highest flexibility in terms of sites it can be transported to and used on. Weighing just under 3.5 tonnes, the RC150 is fully road legal and allows for the processing of material directly on site, ideal for construction works and small-scale C&D waste. This means reduced costs and greater recycling opportunities by re-using materials on site, reduced skip hire and extra aggregate costs and lower landfill costs. The RC150 has a jaw size of 650 x 350mm and is capable of outputting between 5 and 50 tonnes per hour, depending on material.

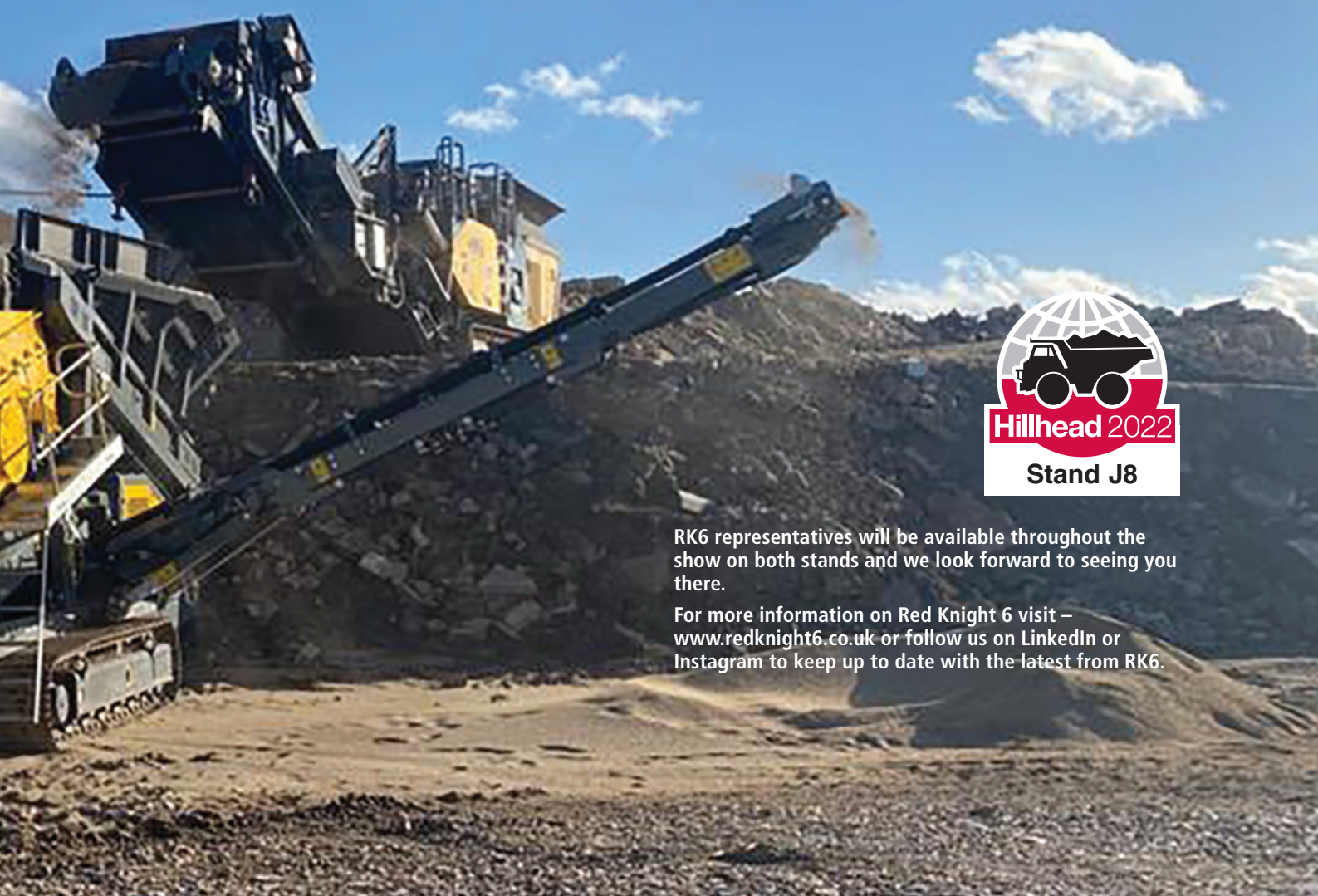
RK6 Spares

A subsidiary business of Red Knight 6 is RK6 Spares, the spares and servicing arm of the business. The team will be on the stand and happy to talk through the list of spares that are held at their warehouse. Additionally, the service team will be at the show, ready to discuss any service requirements you

may have for your machines, whether a single or fleet.

In addition to the machines on show on the RK6 stand, additional RK6 partners Rubble Master and MDS will also have stands at the show. Rubble Master will be focusing on their range of electrified crushers and screens on their stand, particularly relevant given the recent levy applied to red diesel. Rubble Master will also have a working crusher and screen in the demonstration area and key members of the team will be on the stand to discuss all aspects of these market leading machines.

MDS will have a selection of their market leading trommels on their stand at the show, as well as one operating in the demo area. MDS manufacture a range of tracked and static trommels, capable of dealing with sticky or dirty clay, demolition waste and recycling material. MDS trommels are capable of handling rocks up to 1.5m, or highly abrasive materials and they are built not only to extremely high standards, but also with the many years of experience the company has gained in manufacturing their market leading range.



RK6 representatives will be available throughout the show on both stands and we look forward to seeing you there.

For more information on Red Knight 6 visit – www.redknight6.co.uk or follow us on LinkedIn or Instagram to keep up to date with the latest from RK6.

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HILLHEAD 2022 STAND: Y1

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www.ktr.com



SMT GB proudly announce their return to Hillhead

After a two year break from shows and exhibitions due to COVID-19, SMT GB are proud to announce that they will be attending Hillhead 2022 with a wide range of the latest Volvo construction equipment and technological solutions.

On the SMT GB stand, for the first time displayed in Great Britain, visitors will have the opportunity to see the all-new EWR130E Wheeled Excavator, EW200E Material Handler, the fifty-tonne EC530E Excavator and EC300E Hybrid Excavator. Visitors will also be able to see the mighty, ninety-tonne EC950F Excavator at work in the demonstration area.

New machines shown for the first time in GB

The multipurpose EWR130E wheeled excavator sets a new standard for powerful machine performance in an unbeatably compact package. Ideally suited for working in tight urban spaces, it's wheeled drive means it can quickly move through infrastructure projects with ease. At 12-13 tonnes, the EW130E also possesses a light enough footprint to carry out landscaping work.

Purpose built for waste and recycling, the all new EW200E MH is built on the success of the larger EW240E MH, and delivers outstanding results in waste and recycling applications.

Delivering the same levels of controllability and performance you would expect from an equivalent conventional machine, but with a 12% up to 17% potential fuel efficiency improvement, the new EC300E Hybrid is the environmentally respectful choice for delivering powerful performance in built-up areas.

The EC530E and EC550E Excavators launched in 2020 and the EC530E will be available on the SMT GB stand. Designed for heavy-duty digging, mass excavation and large site preparation, both the EC350E and EC550E boast superb operator comfort, outstanding levels of update and a new generation of electro-hydraulics.

Due to be shown for the first time at Hillhead in 2020, the EC950F will be working in the demonstration area directly behind the SMT stand. The 95 tonne EC950F is Volvo's largest excavator to date, and delivers maximum productivity in heavy rock or muck shifting applications thanks to its perfect combination of power, stability and breakout force.

Volvo Electric machines

A specially designed "electric village" will also be featured on SMT GB's newly re-designed stand, which will offer Hillhead visitors with their first opportunity to see the newly expanded Volvo electric construction equipment range, which includes the EC18 Electric and ECR18 Electric compact excavators, and the L20 Electric compact wheeled loader. The ECR25 Electric, which was displayed for the first time at Bauma in 2019, will also be available on the stand.

The opportunity to see these all-new electric machines working in mock real-world applications will also be available, as demo shows will take place on the stand daily at 10:00, 12:00 and 14:00.>





The latest technologies

In addition, SMT GB will be showcasing their latest technological efficiency and productivity boosting solutions, which are focused into the categories of "Efficient Sites", "Intelligent Data" and "Flexible Maintenance and Repair". Not only do these solutions boast the latest technologies to help boost site, project and machine efficiency and productivity, but also reduce downtime, waste and the total cost of ownership for customers.

The "Efficient Sites" solutions being showcased are Volvo Eco Operator training and Volvo Co-Pilot, state-of-the-art simulators and SMT Site Simulation.

Having a reliable and efficient fleet of machines plays an important part in every project, but it is the performance of the operator and the efficiency boosting technology available to them that really makes the difference. This is where Volvo Co-Pilot and Eco Operator training delivered by SMT GB makes a real difference.

Using Volvo's state-of-the-art cab mounted touchscreen, Volvo Co-Pilot provides the operator with all of the information they need to complete projects in less time and with more precision. Through the specially designed advanced training course provided by SMT GB, Eco Operator teaches operators how to get the most out of their Volvo machines, while also reducing fuel consumption, emissions and wear, which is made possible thanks to SMT GB's cutting edge machine simulators, providing operators with the ability to get hands-on with a highly accurate digital version of their machines, while also providing them with real-world feedback in a safe classroom environment to hone their skills and identify areas for improvement.

SMT GB's newly developed Site Simulation solution uses advanced drone technology to generate highly accurate 3D models of any site it is deployed on. This provides customers with the ability to accurately determine the current condition of a site, suggest optimal machine pairings and identify what changes will improve on-site productivity and efficiency.

The solutions being showcased for the "Intelligent Data" area include CareTrack, ProCare, Insight Reports and MySMT.

CareTrack provides customers with the ability to monitor and analyse a broad range of data on a fleet-wide basis, while SMT ProCare goes one step further to offer real-time performance data on individual machines within a fleet. Insight Reports combine the information from both CareTrack and ProCare to generate simple to understand and analyse report on fleet performance. MySMT provides customers with a web browser-based portal to provide easy access to all of SMT's intelligent data solutions, order parts and book servicing or repairs from anywhere.

Lastly, the "Flexible Maintenance and Repair" solutions area will showcase the benefits of SMT GB's Customer Support Agreements, as well as Volvo certified rebuilds, Used parts and equipment and online parts portal.

Recently overhauled to introduce two new levels of cover, SMT GB's Customer Support Agreements provide a set of service packages to provide comprehensive machine cover and suit all customer budgets, offering customers considerable peace of mind to protect the investment made in their machinery.

Thanks to the quality of refurbishment available from SMT GB's Volvo certified rebuilds programme, purchasing from new is no longer necessarily the best option available to customers. Similarly, SMT GB's expert used equipment and parts teams provide a highly credible and cost-effective alternative to purchasing new parts and equipment. SMT GB's online parts portal provides customers with the ability to search for and order parts from anywhere 24/7, and receive free standard shipping for all orders placed through the portal.

SMT GB markets Volvo Construction Equipment products, together with K-Tec articulated hauler scraper boxes, in Great Britain. There are eight strategically placed Customer Support Centres, a dedicated National Used Equipment Centre and a network of utility equipment dealers to ensure high quality customer support is maintained throughout the country.



Stand Y5

The latest SMT Efficiency and Productivity boosting solutions



Efficient Sites



**Flexible Maintenance
and Repair**



Intelligent Data



Displaying for the first time in Great Britain



**Volvo EWR130E
Wheeled Excavator**



**Volvo EW200E
Material Handler**



**Volvo EC530E
Excavator**



**Volvo EC300E
Hybrid Excavator**

BRAND NEW ELECTRIC VILLAGE

Featuring the all-new Volvo EC18 Electric and ECR18 Electric compact excavators and the L20 Electric compact wheeled loader.



Daily demo shows will take place on the stand at 10:00, 12:00 and 14:00

For more information visit: www.smt.network/gb/events



First time for new Doosan products at Hillhead 2022

Doosan will be featuring a wide range of new products for the first time on the company's Stand Number Z4 at the Hillhead 2022 Exhibition in Hillhead Quarry in Buxton in the UK from 21-23 June 2022. They include the latest versions of the company's large crawler excavators from 36 to 53 tonne, the next generation of Doosan mini-excavators, the new DX100W-7 10 tonne wheeled excavator and a new range of compact wheel loaders. Alongside these products, Doosan will show the latest DL-7 wheel loaders and articulated dump trucks for the quarrying, mining and construction industries.

Increased comfort and controllability

A number of new standard and optional features are now available on several large Doosan crawler excavators, including the DX350LC-7, DX380LC-7, DX420LC-7, DX490LC-7 and DX530LC-7 models. The main changes are in the new cab, which takes operator comfort and ease of operation to the next level.

Standard features include:

- Keyless start (Doosan Smart Key) & remote door lock/unlock
- Parallel wiper system covering a larger window area
- Operator ID/Password functionality (setting operator authorization to modify parameters)
- Remote diagnostics functionality
- New Heating & Cooling seat (cooling is optional)
- DAB audio + hands-free call system
- 11 LED work lights as standard with 2 more optional
- AVM - Around View Monitor with 360° cameras (Ultrasonic sensors are optional)

In all the excavators, the Main Control Valve (MCV) has also been changed as standard to a Doosan Mottrol MCV with no change in performance.



Next generation Doosan Mini-Excavators

Hillhead provides the first look at selected models from Doosan's next generation mini-excavator range, which currently includes the new DX27Z-7 2.8 tonne, DX35Z-7 3.9 tonne, DX50Z-7 5.4 tonne and DX55R-7 5.7 tonne Stage V compliant models. The zero tail swing design of the DX27Z-7, DX35Z-7 and DX50Z-7 and the reduced radius design of the DX55R-7 models make them ideal for confined space work.

The DX27Z-7 and DX35Z-7 are powered by the Doosan D17 Stage V compliant diesel engine providing 18.4 kW (24.7 HP) of power at 2400 and 2200 RPM, respectively. The DX50Z-7 and DX55R-7 are powered by the Doosan D18 Stage V compliant diesel engine providing 36.4 kW (48.8 HP) of power at 2200 RPM. As a result, all four models offer the highest power and torque in their respective classes and cover a wide range of applications including heavy duty work.





A novel platform design featuring new upper structures has increased durability/robustness and this is complemented in all four new mini-excavators by a larger working range than other equivalent machines on the market, coupled with higher lifting capacities and digging forces.

New high performance 10 tonne Wheeled Excavator

Also featuring a new look design, the DX100W-7 10.7 tonne wheeled excavator from Doosan make its debut at Hillhead. The 10 tonne weight class represented by the DX100W-7 is new to the Doosan range and the DX100W-7 offers a high performance solution for customers looking for a wheeled excavator designed primarily for urban and road maintenance applications.

For this type of work, the DX100W-7 offers the best compromise between compactness and agility, complemented by excellent productivity and high-end comfort. It is very important that this type of machine can operate in very restricted areas, so the DX100W-7 can be equipped with the option of four wheel steering and a crabbing mode, with two wheel steering as standard.

As well as agility in confined spaces, the DX100W-7 offers the highest safety and specifications on the market. The integral 1.35 tonne counterweight ensures the highest stability for lifting work in combination with the articulated boom and long arm, which together provide a larger working range than other machines in this class, despite having similar boom and arm lengths. The counterweight also has a novel design, offering the best maintenance access in the industry, from the rear of the machine and from ground level.



The articulated boom ensures that the operator is able to position the machine as close as possible to trucks during loading. In addition, the DX100W-7 offers maximised lifting capacities and digging forces, as well as satisfying a requirement in some countries for a wheeled excavator with a travelling height of under 4 m.



New Compact Wheel Loaders

Doosan has signed an exclusive supply agreement with Netherlands-based Tobroco-Giant, a leading manufacturer of compact wheel loaders for materials handling, construction, rental, agriculture and landscaping. Under the new agreement, selected compact wheel loader models are being manufactured by Tobroco-Giant in the orange colours of Doosan and being sold under the Doosan name through the brand's European dealer network.

As featured on the Hillhead stand, the partnership covers a total of five new Doosan compact wheel loader models, the DL60, DL65, DL80, DL85 and DL80TL, with operating weights from 3500 to 5000 kg. Just like their much heavier versions in the Doosan range, these new 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 Doosan construction equipment, please visit the website: www.eu.doosanequipment.com





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Stand J1



Eriez to debut new lightweight suspended magnet at Hillhead 2022

Eriez Magnetics Europe will be bringing its newest offering to the long-awaited return of the Hillhead exhibition this summer. Eriez' industry experts are excited to showcase the improved slimline profile and lightweight design of the FH permanent suspended magnet to members of the quarrying, construction and recycling industries. Based upon the success of the legacy overband range currently offered by Eriez, the new magnet packs even more power into less product. Although compact and sleek, the strength of the optimised FH is not to be underestimated, especially as it is suited for the removal of rugged tramp-iron on conveyors and crushers.



The development of the FH was born out of the necessity for a smoother user experience in terms of installation, maintenance and recovery levels to better protect downstream machinery. Coupled with the constant need in every business to refine and enhance technology to better suit its application, the FH upholds Eriez' industry leader status. The petite, stainless steel frame is not only extremely durable but ensures significantly less waste of materials and energy during the manufacturing process. Customer research indicated that space limitation was an issue, but weight saving came out on top as the paramount concern for most, because lighter equipment minimises power requirements and maximises fuel efficiency.

Aimed at the mobile machinery market because of its compactness, the FH series is ideally suited for use on mobile crushers, shredders and screeners, where weight and dimensions must be kept to a minimum, whilst maintaining the highest levels of performance. Another valuable feature, not just aimed at mobile equipment operators, is the upgraded easy belt-change which is key to controlling downtime and preserving profits.

Eriez Magnetics Europe Ltd will participate in the Hillhead 2022 show from June 21st to 23rd, on the outdoor grounds next to the pavilion at Buxton Quarry, stand G11.



RubbleCrusher exhibit both the trailer and tracked version of the RC150V 650mm x 350mm Jaw Crusher

RubbleCrusher offers compact and robust crushing and screening equipment across various industries allowing for on-site recycling of C&D "waste" materials. RubbleCrusher is a division of the well-established CMB International Limited that was founded back in 1996. CMB International's extensive knowledge and experience of heavy crushing and screening equipment has been used to create the RubbleCrusher compact range of equipment. From day one the philosophy of CMB International has been customer driven and has continually evolved, aiming to meet and exceed the requirements and expectations of you the customer.

In light of the UK governments targets of a "Zero Waste" approach across construction sites whilst also

understanding that smaller to medium sized crushing and recycling projects are just as important as large-scale applications, the RubbleCrusher range was created to provide a Zero Waste solution that contributes to a circular economy within the construction and demolition industry where;

- Virgin resources are no longer extracted, for example from mining
- Existing products, once used, are reused or recycled to make new products without loss of value
- No resources are disposed of and no value is lost, for example sending materials to landfill

The RubbleCrusher range has been designed with simplicity and robustness in mind, allowing for user-friendly and effective operations., whilst being easy to transport across various sites.

RubbleCrusher will be exhibiting both the trailer and tracked version of the RC150V 650mm x 350mm Jaw Crusher.

The trailer version is mounted on to a Type Approved 3,500kg trailer chassis that can be easily transported across various sites using a 4x4 vehicle.

The tracked version is mounted on a set of rubber tracks to allow for tracking across roads, pavements and driveways. Both versions feature the Yanmar 28Kw EU Tier V/EC Stage IV diesel engine that powers the hydraulic crusher drive system that also features a crusher reversing function.

Both versions of the RC150V provide an economic solution to produce a usable product from "waste" materials on-site, eliminating the un-necessary costs of skip hire, transport of materials and bought in aggregates.

RubbleCrusher will be located on stand A38 at the exhibition and will have live demonstration of the crusher throughout the show.





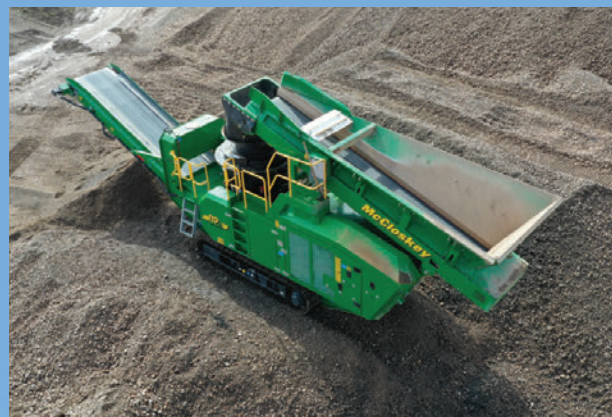
McCloskey Introduces new C2C Compact Cone Crusher at Hillhead 2022

The new McCloskey C2C Compact Cone Crusher will be unveiled at Hillhead 2022, on the McCloskey International Stand, L1. Making its UK public debut at the show on 21-23 June 2022, visitors will have the unique opportunity to see up-close the latest addition to McCloskey's cone crusher line up.

Bringing the power of the powerful MC200 cone to a compact footprint, the new C2C offers operators a highly manoeuvrable, highly portable cone crusher, packed with features to maximise productivity.

McCloskey mobile cone crushers are designed to deliver superior performance while also achieving high capacity, better product quality, optimum versatility and improved fuel efficiency. The new C2C is the latest example of this, with quality components, unrivalled ground level access, full-size MC200 cone, powerful engine, efficient conveyor design, and continuous load and material monitoring all standard features on the new model.

Operators will benefit from the C2C's high production rates, with high efficiency throughout the machine, from material feed to end-product stockpiling. Innovative material flow features included low feed height and a large 6.2m³ (8.1yd³) capacity Hardox® lined hopper, whilst the unrestricted feed opening improves intake capabilities and reduces the risk of blockage.



As the material enters the cone chamber, features including a long stroke and high speed contribute to the C2C's high productivity, whilst ensuring the highest quality end-product with variable speed. Multi-layer crushing delivers great capacity, better reduction and shape combined with less liner wear.

As the material moves to the class-leading, heavy duty 48" wide conveyor, the large gap between the crusher discharge and main conveyor feeder further enhances material flow. Stockpiles are formed up to 3.3m (10' – 10") and with ground level access, the belt is easy to maintain and service.

Available from McCloskey Equipment, the C2C is designed to deliver maximum uptime for





operators. With the ability to be setup and ready to work in less than five minutes, McCloskey's new crusher features high-capacity fuel and hydraulic tanks to reduce re-fuelling intervals. Power is at the core of the new C2C cone crusher, with a robust 280 Kw (375 Hp) engine that is easily accessible for servicing.

The machine is highly mobile both on-site and between locations, with remote control tracks providing maximum manoeuvrability for operators, enabling them to easily transport and position the crusher, maximising the efficiency of any project site.

Technology has been a key factor in the development of the C2C, with a 12" DSE control panel for the highest operational performance and reliability, providing push button control of the cone, track and feeder functions. The crusher is fitted with a telematics modem for the new 365SiteConnex program, a complete connectivity solution for highly accurate monitoring of McCloskey products.

As with all McCloskey equipment, safety is paramount, and the C2C is equipped with multiple features to ensure the workplace and the operator are secure. Engine safety shutdown systems, start-up alarms, full safety guarding, external maintenance access and a tagout capability on the isolator all contribute to the safe operation and maintenance of the equipment. Ground level access also promotes safety, and allows for quick service and maintenance, reducing the downtime for the operation.



"The C2C is another example of McCloskey designing and delivering on what our customers are asking for," said Toni Laaksonen, Senior Vice President, McCloskey International. "We listened to producers who needed the power of a full-size cone, but also the ability to move their equipment easily on and around their sites. There has been no compromise in power or productivity with the C2C, and it is a perfect example of leveraging the best features from our existing cone crushers, and adding mobility based on how our customers use the equipment every day."

Tim Watson, Sales and Marketing Manager, McCloskey Equipment, added, "We are excited to bring the new McCloskey C2C to the UK, and look forward to delivering this new machine to customers. We are confident our customers will immediately benefit from the C2C's innovative design and class-leading feature set."

The C2C cone crusher will be formally introduced on 21-13 June 2022, on the McCloskey International Stand L1, at Hillhead 2022.

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Hillhead2022



21-23 June 2022
Hillhead Quarry, Buxton,
Derbyshire, UK



Molson all set to turn heads at Hillhead

Molson are set to bring a comprehensive selection of machines from their 360-degree product portfolio to Hillhead.

The giant Kobelco SK850LC-10E, 85t excavator set to take centre stage on the stand. With this goliath flanked by a selection of new and popular machines from Molson manufacturer partners such as Hyundai, Terex Finlay, Rokbak, EvoQuip, Sennebogen and Terex Ecotec to name a few, there is sure to be something for everyone on display.



The SK850 will be sure to turn heads at the show thanks to this heavyweights' imposing presence, but depth of products on display will be sure to keep visitors intrigued.

Crushing and screening equipment: With a J-960 jaw crusher from Terex Finlay and a Cobra 230R impact crusher from EvoQuip on display, the Group's crushing and screening products will be well represented. The addition of MB Crusher attachments completes the crushing and screening range offered, providing a solution for all applications and production requirements.

Excavators: A full range of Kobelco and Hyundai excavators will surround the Kobelco SK850, showcasing the group's unique ability to offer a range of options for all applications. This is highlighted with the inclusion of the Hyundai HW210A wheeled excavator. One of the latest products to be unveiled by Hyundai from their new A-series range.

All of this and much more, including recycling machinery and a range of attachments make this a must visit stand at the event. Not to mention the notoriously warm welcome from the Molson team.



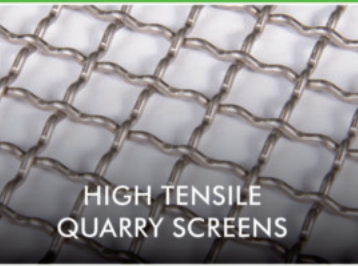
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New Bobcat products to appear at Hillhead 2022

On Stand CE16 at the Hillhead 2022 Exhibition in Hillhead Quarry in Buxton in the UK from 21-23 June 2022, Bobcat will present several new products for the first time at the show. These will include models from the company's new R-Series telehandler range, R2-Series of mini-excavators and the L85, the first model in the company's compact wheel loader range, all developed as part of Bobcat's innovative 'Next is Now' programme. The Bobcat stand will also feature the company's E10e, the world's first battery-powered 1 tonne mini-excavator.

Bobcat's new generation R-Series telehandler range provides a choice of 12 models with Stage V engines. Bobcat will show telehandlers from both ends of the range, which covers lifting heights from 6 to 18 m with maximum lifting capacities between 2.6 and 4.1 tonne and comprises the models below:

Compact telescopic loaders - TL26.60, TL30.60 and TL30.70

Middle range telehandlers - TL35.70, T35.105, T35.105L and T36.120SL

High lift telehandlers - T35.130S, T35.130SLP, T35.140S, T41.140SLP and T40.180SLP

New Cab for remarkable operator experience

Bobcat R-Series telehandlers feature a new cab with unmatched ease of use, designed around the operator, offering a unique central control panel for optimized 360° ergonomics. In the ergonomic design, all surfaces have been optimised to offer increased space and visibility. It is based around a new 5-inch LCD display providing interactive and streamlined information, including the feed from the rear camera for easier and more precise operation.

R-Series telehandlers offer agility on demand, with a newly configured transmission system providing enhanced smoothness to carry out the trickiest jobs at height with surgical precision. These operations are also facilitated by the combination of the Boom Positioning System, the new updated, ultra-accurate joystick, the inching function and improved visibility from the cab.



First for Bobcat R2-Series Mini-Excavators at Hillhead

The R2-Series of 5-6 tonne Stage V compliant mini-excavators make their first appearance on a Hillhead stand – the new E50z, E55z and E60 models. The R2-Series machines offer many new state-of-the-art features and options such as Bobcat's unique award-winning Advanced Selectable Auxiliary Control (A-SAC) system and the innovative Automatic Track Tensioning System (ATTS) technology.

In the E50z and E55z, Bobcat's unique Zero House Swing (ZHS) feature adds another level of protection to the standard zero tail swing design, providing full peace of mind when operating the machines near walls. The E50z ZHS model is an easy-to-use, robust machine optimized for specific rental industry needs while introducing the next level of operator comfort and features required by demanding owner-operators. The E55z is a premium performance model - it is the largest and most powerful Bobcat machine with the ZHS design.

The E60 is the R2-Series flagship model in all aspects - this conventional swing model features a more powerful engine, a larger cab and other new unique features. In the E60, a tail overhang of only 280 mm allows the machine to be operated in confined spaces.



Bobcat increases production of the E10e Electric Excavator

Built on the same line as the highly successful diesel-powered Bobcat E08 and E10z mini-excavators, production of the company's E10e battery-powered model has recently been increased.

The Bobcat E10e offers zero emissions, low noise and a width of just 71 cm, allowing it to easily pass through standard doors and in and out of lifts. The E10e is therefore ideal not only for indoor demolition and basement digging, but also many other sites where this type of machine is required such as urban/city centre developments, night-time work and contracts in quiet zones including hospitals, cemeteries, schools and so on.

Bobcat enters Compact Wheel Loader Market

After entering the compact wheel loader category in 2020 with the L85 model, Bobcat now has the largest loader portfolio of any manufacturer in the world and will widen this further when the company launches the second model in the compact wheel loader range, the L75, later this year. >



High performance is assured by the combination of the powerful Bobcat engine and the hydraulics in the L85. This is complemented by the high stability, breakout, push and pull forces and a comprehensive selection of Bobcat attachments.

Already, there are multiple Bobcat loader attachments approved for use on the L85, with more to be announced in the near future. The current portfolio includes a general purpose bucket, light material buckets, a combination bucket, pallet forks and angle broom and snowblower attachments, making the L85 a truly multi-purpose machine.

The L85 is equipped as standard with the Power Quick-Tach system compatible with widely used industry standard couplers. To run high-flow attachments like a snow blower and an angle broom, the L85 can be fitted with a high flow option, providing a hydraulic flow of 100 l/min.

For more information about Bobcat and Bobcat products, visit the website www.bobcat.com





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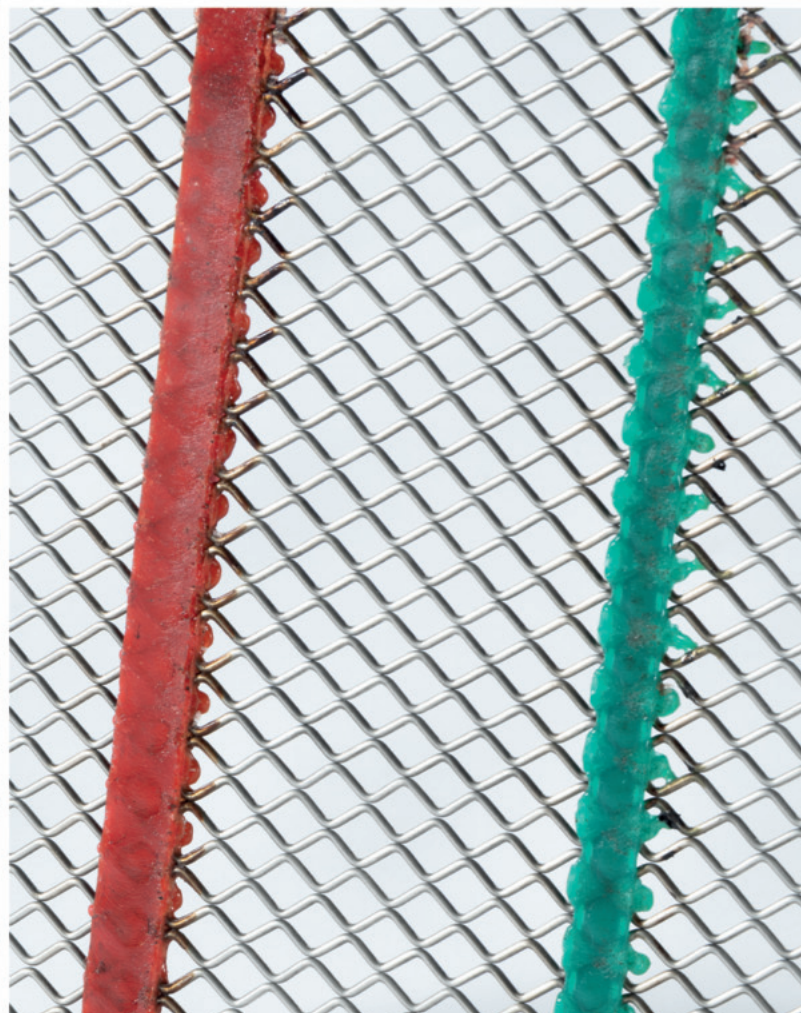
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Liebherr goes large at Hillhead

Liebherr returns to Hillhead to underline its credentials as the 'first choice' manufacturer with a line-up of quarry equipment that marries engineering excellence to market-leading fuel efficiency.

Spearheaded by the award-winning TA 230 articulated dump truck, the comprehensive collection showcases wheeled loaders, dozers and excavators as well as associated concrete batching and mixing equipment. And Liebherr's reputation as a leader in reducing customers' fuel costs takes on added significance in the wake of a double whammy of rocketing prices and the end of the rebate for red diesel used in construction equipment.

TA 230 dump truck

The TA 230 is making its Hillhead debut but has already made its mark with UK customers via several significant sales across the country. Scottish contractor Edward MacKay, for example, described it as "one of the best-looking and well-engineered trucks on the market". Elsewhere, judges for the Red Dot Award for design excellence praised the "unique, edgy and yet dynamic lines" that impressed a jury of international experts.

Carrying a 28-tonne payload, the driver views the working environment through panoramic windows and over a short, inclined bonnet for the best outlook of the driving, working and articulated joint area. There is an array of assistance systems such as hill start, speed retention and automatic traction control while speed-dependent steering gives precise manoeuvring at low speeds and sensitive control at higher speeds.

Wheeled loaders

Liebherr's XPower machines are the benchmark for high-production wheeled loaders in quarry applications. Power-split transmission as standard manages the interaction of the hydrostatic drive and mechanical drive, continuously adapting the mixing ratio of the two drive paths without noticeable switching and without interrupting traction. That means the power adapts to the specific requirements of the operation to achieve maximum productivity.





The Liebherr Power Efficiency (LPE) 'intelligent' system plays a key role in the drive system. The most important components such as engine, power-split transmission and operating hydraulics are co-ordinated to achieve high levels of efficiency and significant fuel savings; Liebherr's own comparative tests have shown that XPower wheeled loaders require up to 30% less fuel than their conventionally driven counterparts.

Dozers

The hydrostatic drive system pioneered by Liebherr is installed on all Generation 8 dozers and guarantees that each machine achieves impressive productivity and class-leading fuel economy but without affecting performance. A newly-designed cab for G8 machines means the operator remains comfortable and productive during long shifts while a choice of blade configurations and options will equip the machines for any application or operating environment.



Excavators

Liebherr excavators have a well-earned reputation for reliability in demanding applications and they don't come much tougher than quarries where abrasive materials, dust and mud are part and parcel of the operating environment. Our engineering and sales teams will find the perfect match of machine and front-end equipment to handle any material.

There's a huge choice of machine variations in the 20-104t range and all arrive work-ready with boxing ring, LEDs, re-fuelling pump and auto lube as standard. Fuel tanks are larger than those on competitors' machines which means less down time for refilling.

The company has been developing its expertise in electric crawler excavators for many years and recent development has seen the introduction of the zero emission R 976-E and R 980 SME-E models to replace the ER 974 B for quarry extraction. Developed and produced by Liebherr-France SAS, they are not simply converted diesel versions but excavators and electric power systems designed entirely by Liebherr.

Concrete Technology

Highlighting products further along the production chain is the LCM 1.0 concrete batching plant combining solid construction, cost-effective transport and assembly and a strong price/performance ratio. Equipped with a powerful ring-pan mixer and producing up to 60 m3 of fresh concrete per hour, the entire plant is designed to give customers efficiency and a long service life but with a sensible price tag





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BOOTH T1



Powerscreen in touch with tomorrow at Hillhead 2022

Global crushing and screening experts Powerscreen will once again exhibit at the Hillhead show in Buxton, UK. The exhibition is the largest of its kind and will take place on 21-23 June 2022 at the Hillhead Quarry in Derbyshire. The Powerscreen team will be based at the familiar coordinates of Stand L4, where they look forward to welcoming dealers and customers alike after a lengthy wait since the previous edition of Hillhead.

Commenting on the upcoming exhibition, Sean Loughran, Powerscreen Business Line Director & General Manager said "To say that we are excited to be back doing what we do best at Hillhead would be an understatement. It has certainly been a challenging couple of years - but the team at the factory have been working extremely hard behind the scenes and we are looking forward to sharing the results of this work with those who will be attending Hillhead 2022."

At the stand

As well as the famous Powerscreen hospitality that attendees have become accustomed to at Stand L4, there will be a display of machines and technologies that are very much "in touch with tomorrow". The static machine line-up includes the game-changing Chieftain 1700X 3 Deck, the latest addition to the highly successful Chieftain range, a high production HLF75 Orbital Conveyor and the new Titan 2300, flagship of the new Titan range of machines and turning heads since its debut at the end of 2021.

On the technology side there will be a showcase of innovative digital solutions and insight into alternative powering offerings which will play an important role in preserving the planet.

At the demo area

Conveniently located directly in front of Stand L4 is the rock processing area – where Powerscreen will showcase 3 working machines. The impressive working line-up includes:

- Premiertrak 450 – The best just got better with the new PT450
- Trakpactor 480SR – Tomorrow is here with the bigger, better and bolder TP480SR
- Chieftain 2100XE – The future is electric with the new CH2100XE Hybrid Drive System



Neil Robinson, Powerscreen Product and Applications Manager said "Pretty much everything on display at Hillhead 2022 is the result of a collaborative effort between our team members, dealers and customers. It's great to be interacting face-to-face again and we look forward to seeing some familiar faces (and some new) at the Powerscreen stand during the show."

For more information on Powerscreen crushing, screening and conveying products please visit www.powerscreen.com or contact your local dealer.



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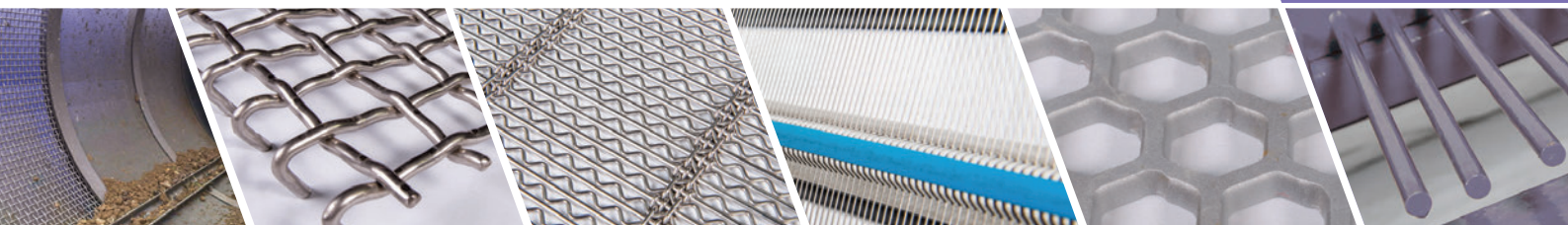
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QUARRY SCREENS & RECYCLING



Rokbak RA30 and RA40 will command attention at Hillhead

UK articulated hauler manufacturer Rokbak will present its RA30 and RA40 at Hillhead 2022 – the nation's largest quarrying, construction and recycling exhibition – alongside its UK dealer Molson Group.

Rokbak is set to impress at this year's Hillhead show with both its RA30 and RA40 articulated haulers on display from June 21st to June 23rd. The RA40 will be on Rokbak's stand at N14, while the RA30 will be presented at the Molson Group's stand J3. There will also be a Rokbak articulated hauler in the working demonstration area.



Visitors at the three-day event will be able to get up close to the machines, see one in action and speak to Rokbak and Molson Group experts at their respective stands. The Molson Group is the UK's largest independent new and used equipment dealer. It became a Rokbak dealer towards the end of 2019. On the Rokbak stand there will be plenty of photo opportunities including getting snapped while you lift a custom-made Rokbak barbell – it's not as heavy as you might think!

Cost-effective production from Rokbak

"The Rokbak RA30 and RA40 articulated haulers set new benchmarks in durability, productivity and fuel economy – so we're proud to be able to show the crowds at Hillhead what these machines are capable of," says Paul Douglas, Managing Director of Rokbak. "We are looking forward to meeting existing and future customers alongside our trusted partner the Molson Group. The Molson Group is a very experienced dealer and I'm pleased to have them by our side."

Robust and reliable articulated haulers

Rokbak articulated haulers are known for being robust, reliable, easy to operate and easy to maintain. The 38 tonne (41.9 US ton) RA40 is a heavy-duty articulated hauler that makes light work of large-scale quarry, mine and construction jobs. Offering high capacity and performance, the RA40 delivers cost-effective productivity in the toughest conditions. The high-performance engine balances controlled power with maximum fuel efficiency. The modulating transmission retarder is coupled with an efficient exhaust brake and fully enclosed oil-cooled multidisc brakes for total control – even on steep inclines.

The 28 tonne (30.9 US ton) RA30 articulated hauler is made for the toughest jobs and roughest sites, from quarries and infrastructure developments to commercial construction projects. With true independent front suspension as standard, it offers more control and comfort for operators. The RA30's new transmission and high-performance engine improve fuel efficiency, operator comfort and deliver power when you need it.

For the European market, both machines feature the latest EU Stage V emissions-compliant engine, boasting up to a 7% improvement in fuel efficiency compared to older EU Stage IV engines.





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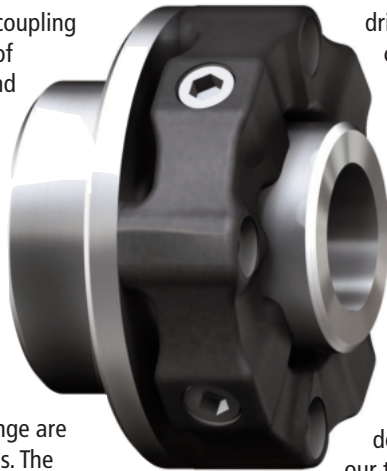


First development by KTR think tank

KTR have developed a new all-rounder coupling exploiting a new and very broad range of applications in areas relating to main and auxiliary drives in mechanical and plant engineering. The backlash-free and torsionally soft EVOLASTIC will be available in ten sizes and each ten basic versions for nominal torques from 100 to 5,600 Nm.

The heart of the EVOLASTIC comprises a non-slip elastomer element transmitting the torque to the contacts via vulcanized aluminium jaws. The elastomer connections to the hub or flange are ensured by radial and axial screw fittings. The design assures reliable torque transmission along with a precise prestress in the elastomer. The coupling requires low maintenance and is in a position to compensate for permanent angular misalignments of up to 3° in the homokinetic plane.

"Owing to its torsionally soft attributes, the EVOLASTIC attains the requested vibration and acoustic insulation in the



drive train. Besides torque transmission, the coupling also compensates for axial, radial and angular misalignment and absorbs overloads elastically," Jochen Exner, Innovation Manager in KTR think tank in Hilden, Germany, says.

The EVOLASTIC expands KTR's coupling range by a backlash-free, torsionally soft all-rounder, for example for applications in frequency-controlled or I. C.- engine drives. The new coupling will be available in ten sizes and each ten basic versions for nominal torques from 100 to 5,600 Nm.

The EVOLASTIC is the first development to evolve from our think tank which opened in Hilden in 2019. The next coupling being developed in the think tank is already well on its way and will be introduced in spring 2021.



Heavyline heroes headline for Hyundai at Hillhead

At Hillhead 2022, Hyundai Construction Equipment Europe will showcase its comprehensive range of heavy line equipment that has been purpose built for the Quarrying sector.

Headlining is the HX480AL 48-tonne crawler excavator which makes its first UK public appearance and will be at work in the demonstration area.

Powered by a fuel-efficient Stage V Cummins engine, the new machine boasts the highest engine power and hydraulic flow on the market. Its increased pump size enables the machine to work at lower rpm for greater fuel efficiency and there is no EGR valve requirement. 4-way proportional piping is available with hydraulic pressure and flow customisable on the cluster while the HX480AL's stacked cooling system delivers improved cooling capacity. A reversible fan for automatic cleaning is a further boost in the demanding quarrying environment.

Showcased on the stand will be a series of further products from Hyundai Construction Equipment Europe's heavy-duty wheeled loader, wheeled excavator and crawler excavator ranges – including the latest A Series models.





Industry Veteran, Astec Industries, to Showcase Over a Century of Experience at Hillhead 2022



Astec mobile jaw plants are built for maximum jaw crushing mobility. Featuring Pioneer® series jaw crushers, these plants offer up to 25% more capacity than competitive models and are equally effective in aggregate or recycling applications. Our mobile plants allow stationary and portable producers to benefit from on-site mobility.

Astec Industries is bolstering its established international presence by showcasing its mobile crushing and screening range at the forthcoming Hillhead exhibition. Having recently consolidated the company's legacy brands under the Astec banner, (including stalwarts such as Kolberg-Pioneer, Osborn Engineering, Telsmith, Johnson Crushers International and Astec Mobile Screens), Astec will use the renowned quarrying exhibition to

connect with customers and partners alike - new and old. With one of the most comprehensive product offerings in the marketplace, ranging across the crushing and screening (mobile, portable and static), material handling, washing and classifying, rock breaker technology, and asphalt and concrete sectors, Astec is excited about growing its market presence globally.



Astec mobile plants are designed to work in unison. With seamless integration, producers can get the highest-quality end product with a compact set up. Our mobile cone plants feature a unique roller bearing design for higher efficiencies and reduced expenses. While the GT205 mobile incline screen offers ideal gradation control for reclaiming fines in a variety of applications.



Astec mobile screening plants are engineered to provide higher production capacities and more efficient sizing than comparable screens. From horizontal and inclined screens to high frequency screens, we offer equipment that fits each operation's unique needs. Our mobile screen plants combine heavy-duty screens with industry-leading conveyor heights. A large range of media provides flexibility for a variety of applications.



Astec has taken its sixteen industry-celebrated brands such as KPI-JCI, Astec Mobile Screens, Osborn, BTI and Telsmith in the crushing, screening and aggregate processing markets and Carlson, Roadtec, Rexcon, Con-E-Co and BMH in the concrete and asphalt sectors and recently assimilated the product range under the Astec brand name. This restructured framework guided the company to simplify its business, focus on their customers and grow as a connected partner in the industry while leveraging the strength of a century of proven design. With the brands consolidated under the one name, Astec's focus is to be a partner the industries that build the infrastructure that physically connect the world. It's this commitment that has driven their decision to unify as one company under the Built To Connect framework.

Group VP, Sales & Marketing for Astec, Ron Earl, comments, "We are excited to embark on the next phase of our development journey. Astec has a great story to tell and our decades of experience in the industry make us a credible alternative to many of our competitors. Astec Industries is soon to celebrate its 50-year anniversary, but some of that success needs to be attributed to companies that exceed that mark. Our no-nonsense products are well-established within the industry and are built to withstand the demands of the sectors that we operate. Keeping our customer at the center of our business remains a core focus. 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 and Ireland with additional regional offices in the Middle East, Asia, China and Australia to help serve customers locally. We are currently recruiting additional dealers 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."

Astec has invested time and money into their European facility to help support its customers and distribution network globally in all aspects of sales, service, support and spare parts. The streamlining of the company's internal structure and operations has been a huge factor in improving efficiency and driving growth. Additionally, further investment into a dedicated ESG focus, not only in terms of developing their zero emission technologies, but also ensuring that Astec fulfils its obligation as a good corporate citizen, implements relevant sustainability initiatives as well as sound corporate governance.

Stephen Whyte, Group VP, Product Management with Astec elaborates, "Hillhead brings a welcome opportunity for all of us to get back out and see equipment in operation at an exhibition, and I encourage you to come view the solutions we have to offer. We are fortunate to have such a strong product portfolio and, as a company, we are invested in leveraging our product and application experience to continue developing innovative and sustainable technology. Connected equipment will help reduce operating costs and ultimately make the lives of our dealers and customers easier. Local parts availability and product support are vital alongside a product focus on performance, telematics, industrial styling, and drive towards zero emissions, as we work to grow our global market share. We are looking forward to displaying some of these innovations to everyone at Hillhead and helping them discover the full breadth of our product range."

Astec looks forward to building on its sound reputation and seeking additional partners who share the same distinguished reputation of quality, customer-focus and innovation. Astec will be on Stand J1 at Hillhead and welcome any questions or expressions of representation interest, in advance, by emailing hillhead2022@astecindustries.com



Stand J1



Telestack spearheading the journey to Zero Emissions Technology

The quarrying and aggregate industry is having to re-think its approach to environmental, social and governance responsibilities and Telestack are one of the main OEM's leading the transformation in the material handling sector. Telestack have supplied electric powered conveyors for over three decades into mobile and static applications in a wide range of industries including quarries, mines and ports where electrically powered units is often considered the norm. Within the quarry, aggregate and sand and gravel sector where much more emphasis has been placed on diesel fuel consumption. Telestack are using their experience to spearhead the move from traditional track-mounted diesel-hydraulic equipment to a solution that promote environmental responsibility through the use of zero emission technology.

The quarrying industry is an important element in the pursuit of a decarbonised world. With the legislative moves to restrict the use of red diesel in the UK, aggregate producers are looking to OEM's like Telestack to not only provide solutions that cut emissions by ensuring green technologies are incorporated in the design of their equipment but also ensuring that good corporate citizenship is an significant part of how they do business.



The TC621 tracked conveyor from the Telestack Zero range! Available in a range of power options, (diesel hydraulic, hybrid, dual power, electric-driven or battery operated), the Telestack offering enables companies who see the value in moving towards a more sustainable energy source. The benefits are many including the reduction in fuel consumption ensuring better operational efficiency, the reduced environmental impact and a much safer site with reduced vehicle movement.

Telestack's International Sales Manager, Padraig McDermott remarks, "We are noticing a sizable shift in the attitude of our customer base who recognise the value in moving towards a more sustainable energy source. The benefits are too many to ignore and we as an OEM are committed to leading the way in clean technology, lowering our collective carbon footprint and adopting a green manufacturing approach. It is proving an important factor in retaining customers and attracting new customers who share our vision of a cleaner and more sustainable future. We have a range of options dependent on the needs of the customer from no engine, only using engine for relocation and set-up, using electric hydraulic powerpacks to run the tracks in parallel with electric drives to run the conveyor section or using battery technology for machine operation."



The TCL1031 electrically driven heavy-duty tracked conveyor working after a primary jaw for Hansons Quarry in Pateley Bridge, UK. The Zero range from Telestack ties into the needs of their broad customer base from the crushing and screening contractor, the end user quarry operator, mine, stockyard, recycling and ports sectors. Telestack have invested heavily in their electrical team to fully support their Customers in their individual journey towards zero emissions.



The benefits of clean technology are many. The quick and easy set up means that the tracked mounted conveyor can be plugged into the onsite mains power supply, into an on-board or onsite generator or powered from other primary equipment such as the crusher or screen. The zero emissions result in a much reduced environmental impact resulting in less noise, a safer site (less site traffic, less human intervention) and a reduction in maintenance and downtime. The reduction in fuel consumption ensures better operational efficiency, ultimately using less kW to move more material. In addition the All Electric machine has a much longer life cycle (estimated up to 5 x times longer) when compared to a diesel machine making for a better return on capital invested.

Highly-regulated engines are often complex in structure (sensors, after-treatment, complex panels and looms), with often hard to reach access and could potentially struggle with the high level of exposure of dust and vibration found in a typical quarrying application. The reduction in complexity and ease with which to run, troubleshoot and maintain the zero-range units have had nothing but positive feedback from our dealers and customers alike.



The quick and easy set-up of the electrically driven units means that the tracked mounted conveyor can be plugged into the onsite mains power supply, into an on-board or onsite generator or powered from other primary equipment such as the crusher or screen.

"Europe is the main driver on electric units, in-line with regulated engines getting more complicated. We've offered electric conveyors for almost 30 years and they have proven very effective. Many countries are now offering sizable rebates on their capital expenditure for green technology so we are seeing the shift in all sectors."

McDermott says 2022 is set to be another successful year for Telestack, with its comprehensive model range in big demand across a wide range of mobile bulk material handling industries.

"Telestack have the widest range of around 30 track mounted models on offer to serve all parts of the market. Our sole focus is conveyors and their many applications. The Zero range ties into the needs of our broad customer base from the crushing and screening contractor, plant hire, the end user quarry operator customers, mine, stockyard, recycling and port sectors."

For Telestack however their corporate citizenship goes beyond their technology utilised by their product mix. They make a concerted effort to integrate a corporate consciousness into their facilities, their supply chain, their ethos, processes, logistics, their energy efficiency, emissions reduction and water efficiency, along with improved worker safety and community relations.

"We have a team of Telestack volunteers who meet monthly to drive our internal "green initiatives" forward" explains McDermott "and they are empowered to identify issues, seek resolutions and drive green solutions internally. This spans from something as simple as getting involved in projects with local schools, to replacing older halogen bulbs on the shopfloor with high efficiency LED bulbs, waste management processes, increasing the number of E-charge points on site to investigating rain harvesting and alternative power solutions for the factories. Yes we encourage key green initiatives because our blue-chip customers prioritise OEM's who are environmentally responsible, but more importantly we encourage these improvements, small and large, because it's the right thing to do."

Telestack recently finished the Phase 1 expansion of its manufacturing capacity with the opening of a new 45,000 sq. ft. energy-efficient factory on a green-field site close to their current 105,000 sq. ft. facility in Omagh. This facility incorporates a state-of-the-art manufacturing premises, a dedicated research and innovative development centre, and a modern office suite. The new factory investment followed Telestack's near £4 million investment in its Bankmore site between 2017-2019, creating a state-of-the-art shot-blasting facility, two paint booths and additional manufacturing capabilities.



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Certora Training Ltd (formerly Mentor Training Solutions and SERAC UK) have worked closely with the mineral processing and extractives industry employers and MP Awards - the awarding organisation of the Minerals Products Qualifications Council and MPQC to offer a comprehensive range of plant and equipment operator training courses, competency assessments and qualifications for over 15 years.

Certora Training was born from our desire to provide a more robust and customer centric service to our customers, bringing together our two businesses to offer a One Call Service for all of your training needs. Our team understand the daily frustrations of automated phone systems and a lack of response to enquiries and our new structure ensures that our service will only get better.



Training Standards

It has always been our policy to work with the leading accreditation and associations for each category in which we operate, and this remains the foundation of our services. Providing training that is relevant, engaging and at a responsible cost is our highest priority. Working with our customers to identify opportunities to enhance training and develop new standards for the ever-changing requirements of operations is at the heart of what we do because sadly, as we see in the news, accidents onsite involving equipment continue to happen, even with the most robust competency standards and procedural compliance.

We understand the challenges that are faced onsite and, in a post, COVID-19 era we are seeing an influx of requests from our customers, existing and new, for Novice Operator Training due to the lack of skilled workers available in the market.

It is therefore important to highlight that basic/initial training is not the end of the journey it is just the start. Operatives should receive initial training, specific job, and familiarisation training for all elements of their role.

Initial Training

From Mobile Plant to Access Platforms, Banksman to Forklifts, we deliver nationally recognised and accredited training courses at your site. Training in this way allows us to train to the specific accrediting bodies testing standards whilst also appreciating the site-specific functions of the machine and its' operational environment – something that cannot be mirrored in a training centre.

From Initial Training to Assessment - MPQC Operator Competency Scheme

Our team of MPQC Assessors work throughout the UK completing the post training assessment for mobile plant operatives. This takes place no longer than 3 months post initial training. Upon successful completion of this under the MPQC Operator Competency Scheme, operatives receive a MPQC Red Operator Card. We then induct them on their chosen sector-specific qualification and our assessors work with each delegate to build an evidence-based portfolio; once completed a Blue Competent Operators card can be issued.

Vocational Qualifications

Our experienced assessors deliver qualifications for all types of operational, management and supervisory roles, with over 20 relevant qualifications for the extractives industry, ranging from L2 – L7.

Our electronic portfolio system provides a way of efficiently monitoring candidate progression without the need of mass paperwork, allowing evidence to be easily uploaded and matched to the current MPQC standards and the visibility of progression at the touch of a button

Managed Service Team

At the request of some of our largest customers, we now have a dedicated team who will manage all operational training requirements for your business, in line with your competency matrices. We have a network of approved and recommended suppliers who offer courses outside of our specialisms from confined space training to electrical and welding, removing the need for you to manage multiple suppliers.



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Axon Power & Control – at the forefront of electrical system design & installation



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

As an industry recognised name Axon have recently completed successful installations with Power X Equipment, Cemex, Tarmac, Day Group and NRS Aggregates, delivering bespoke system design and installation to client expectations.

With a 'can do' attitude to problem solving Axon have 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.

Purpose-built facility:

Based in Dungannon, Co. Tyrone their purpose-built 25,000 square foot manufacturing facility provides the capability to manufacture and test control panels to the latest standards.



Axon can provide a wide range of services from a simple box build to modular motor control centres with the ability to meet international control requirements and upgrade/modify or modernise existing control systems.

Each system built is subject to a stringent in-house functional test procedure to ensure correct operation in-line with customer requirements and adherence to standards.

These include:

- Form 2 & 4 Construction
- Conventional and Intelligent Starter Options
- Bespoke Enclosure Design
- Bespoke RAL/BS Powder Coating Options
- Containerised Solutions
- CE/UKCA/UL Certification
- ISO Accredited Manufacturing Process



In-house design team:

Axon stands apart from many others in the sector in that they offer the services of a highly experienced in-house design team who have full control over the delivery of a project from initial concept through to execution and delivery of final as-built documentation.

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.

Each system is tailored to the specific needs of the project whether this is a single machine build or a complete plant wide control system.

Axon engineers will consult with third-party equipment providers where required to provide a fully integrated process control solution bringing together all available information into a single central plant control system.

Axon can provide systems based on the hardware and software platforms of all of the leading equipment suppliers including Schneider Electric, Siemens, Allen Bradley, ifm and Mitsubishi.

These include:

- PLC Software
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- SCADA Systems
- Industrial Wi-Fi networks
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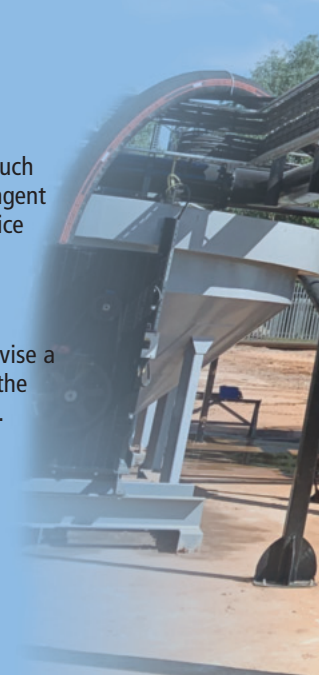
APC Inspection & Testing:

Axon are NICEIC approved contractors and as such you can be assured of an adherence to the stringent technical standards and industry codes of practice relating to the inspection and testing of your installation.

When Axon are due to test your installation, engineers will collaborate with your team to devise a flexible programme of works which will create the minimum disruption to your business operation.

Axon can provide:

- Fixed Installation Testing
- Thermal Imaging,
- Portable Appliance Testing
- Fire Alarm Certification
- Emergency Lighting Certification





Maintenance & Breakdown:

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/telephone support to talk through the problem with your local engineers. We increasingly utilise remote access solutions to support our clients globally.

Axon also provide 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.

Electrical installation:

Axon also provide a comprehensive range of electrical installation services to their diverse client base.

A broad spectrum of industry sectors are serviced including industrial installation, materials handling, renewable energy, and water treatment.

Axon have an experienced and dedicated team of project management and installation engineers who have the capability to deliver projects ranging from single machine installations through to large scale plant installations taking many months to complete.

They specialise in the following areas of electrical installation:

- HV/LV installations
- Process and Instrumentation Cabling
- Power Factor Correction
- Harmonic Filtration Equipment
- CCTV
- Fire Alarm and Detection
- Emergency Lighting

Axon Power & Control Limited

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McLanahan UltraSAND Plant Provides Flexibility to South Vietnamese Man-Sand Plant

A customer in South Vietnam was looking to make a high-quality basalt crushed sand as a replacement for river sand. Manufacturing sand creates a large amount of fines from the crushing process, and the customer needed to remove these undersized particles to meet their required product specifications, which in this case was a fineness modulus of 2.2. Fines are typically removed with washing and classification equipment, so the customer needed a wash plant that would get the job done.

Solution

The customer reached out to Thanh Long JSC, McLanahan's dealer in Vietnam, for a solution. Thanh Long JSC recommended a McLanahan UltraSAND Plant for producing their required product specification.

McLanahan UltraSAND Plants are modular sand washing and dewatering systems that are pre-designed and pre-engineered for rapid deployment. The fully designed UltraSAND Plant, with its quick setup time and small footprint, was more attractive to the customer than a stationary plant.

"As deposits are fully utilized, the fact that modular plants can be moved accordingly is very important," said McLanahan Regional Sales Manager Neil Treseder. "They can be added to various modular options to suit ever-changing deposits. They don't need a lot of infrastructure. In the Vietnamese market, the plants need to be versatile, quick to deploy and cost effective; the McLanahan modular Ultra line fits this bill."

Treseder continued, "McLanahan modular plants are fully designed with a small footprint. Some customers have multiple sites, and if required, the plant can be moved to suit. The plants are shipped by containers, which makes them very cost effective."





The customer provided a particle size distribution of their crushed sand so McLanahan could determine the size of the equipment needed to meet their product requirements. The solution was a 4-1S model UltraSAND Plant with two 15" diameter McLanahan Hydrocyclones with 20-degree cone angles for the washing stages and a McLanahan VD12 Dewatering Screen for dewatering the sand to improve final product dryness. The Dewatering Screen was fitted with spray bars to help wash out additional fines. Rounding out the system were a McLanahan Pump and sump.

The UltraSAND Plant also contained the support structures, including access stairs, walkways, handrails and kick plates, along with all the electrical controls housed in one convenient motor control station.

With the UltraSAND Plant, the customer's crushed sand enters the sump, where it mixes with water and is pumped to a distributor box that splits the slurry between the two Hydrocyclones. The cyclones separate the fine particles from the product-sized sand and discharge them along with a majority of the water out the top of the cyclones. This waste stream is then sent to a settling pond.

The product-sized sand is discharged out the bottom of the Hydrocyclones and onto the Dewatering Screen. The Dewatering Screen removes excess water from the sand and discharges a drip-free product onto a stacking conveyor for stockpiling. The Dewatering Screen throughs — the water removed from the sand and any additional fine material that pass through the Dewatering Screen media — flow into the sump to mix with the slurry feed to the Hydrocyclones.

Results

When the UltraSAND Plant arrived in South Vietnam, it was simply a matter of placing the equipment, attaching all the connecting pipes and hoses, and providing power to the Pump and Dewatering Screen before the plant was up and running.

"McLanahan modular plants are quick to install, so the customer was producing sand soon after delivery to site," Treseder shared.

Thanh Long JSC said the McLanahan UltraSAND Plant is working very well for the customer. The plant is providing a clean sand at the customer's required tonnage and specifications, and it is also dewatering the finished product to 8% moisture. The lower moisture content reduces stockpile drying time, allowing the product to be sold sooner. It also reduces housekeeping requirements, as less water being transported in the final product allows for a cleaner site under conveyors and around stockpiles.

Another benefit of the McLanahan UltraSAND Plant is that it allowed the customer the flexibility to make adjustments when their required product size changed. Thanh Long JSC and McLanahan provided support for the customer throughout the entire process.

When a customer works with McLanahan, they get more than just industry-leading equipment with a long, reliable service life. They get the knowledge that comes with decades of process experience, along with the support of a global dealer network that provides unmatched local service all over the world. In addition to field-proven equipment, McLanahan also provides installation, startup, commissioning, training and after-sales support for all of its products.

RSG and Elite help Hanson Asphalt achieve better sustainability

RSG structures were recently commissioned by Hanson Aggregates to design supply and construct walls for new RAP (Reclaimed Asphalt Pavement) de-watering bays at their Tytherington depot.

The process for recycling RAP material into asphalt works as follows:

RAP material is first crushed and stored, usually with a moisture content of around 8-9%.

Clean stone is heated using large burners which then has the RAP material added to it, the heat from the clean stone melting the existing bitumen on the RAP, before more bitumen is added creating new asphalt to be used.

The more moisture within the RAP, the hotter the clean stone has to be to melt the bitumen and therefore the more energy required for the process.

The introduction of the dewatering bays will reduce the moisture content of the RAP to 2-3% allowing the entire process to be completed using a lot less energy and time, which is good financially and ecologically as it is a much more sustainable way of producing asphalt.

RSG looked at the initial concept which required foundations and walls to be constructed around an internal dewatering "pit" that has a network of pipes within a free draining medium allowing moisture to be "sucked" from the RAP material using a centrifugal pump.

RSG Director Gareth Neale: "Most walling systems suitable to support this type of material would require quite a substantial footing that would then conflict with the pit within the bays. These walls would also be slenderer at the top and trickier to fix roofing structures to. Using the Legato block system, we can use a shallower foundation detail and by utilising a bottom "soldier" and then "spreader" course at the bottom of the walls, we can further reduce bearing pressure and therefore foundation size. With the blocks being 800mm wide, this also gives a lovely size surface to fix roofing structures to."

The walls are 2.4m high and designed to take the load from the RAP material which has a density of 1.7t/m³ and an internal angle of repose of 30° stored to the full height with an angle of surcharge of 27°.

Retractable roofs then sit on top to keep rain off the stored material while the dewatering process takes place. These can be moved back and forward automatically to allow dump trucks and loading shovels to operate in the bays without the



need for high roof structures which would require much more substantial walls to support them.

"Whilst the walls aren't necessarily that high compared to others we construct" continues Gareth, "the RAP material has quite a high-density figure and so we needed a wall design that would be strong, fast to build and economical, which is where the Legato blocks really work. With the 50N strength blocks from Elite, we know what we are working with and so it is a straightforward process for our engineer to produce designs for any type of situation. Another benefit of using this system of construction is that if in the future this plant as required elsewhere, the walls and roofs can be simply deconstructed and moved to another location."

For more information on the Legato blocks please contact sales@eliteprecast.co.uk or call 01952 588885 / for advice and quotes on all types of walling design, installation roof systems etc. please contact info@rsgstructures.co.uk or call 08452 997597



TOMRA Recycling celebrates 50 years of innovation



TOMRA, the global provider of advanced collection and sorting systems, celebrates its 50th anniversary this year. The company was founded in Norway in 1972 by brothers Petter and Tore Planke who developed the first fully automated reverse vending machine in their garage after seeing a local grocer struggle with the manual collection of empty bottles. Their innovative recycling process was groundbreaking at the time and its concept is still used around the world today.

Over the past five decades, TOMRA has adapted, innovated and developed a vast range of solutions to meet the evolving needs of customers across the food, recycling and mining industries, including developing the world's first high capacity Near Infrared (NIR) sensor for waste sorting applications in a unit designed to sort and recover beverage cartons.



Today, TOMRA Recycling is a leading global supplier of sensor-based sorting solutions and connected digital services that transform waste and maximise yields of valuable secondary raw materials. More than 8,200 TOMRA sorting units are installed for waste and metal recycling in over 100 countries worldwide.

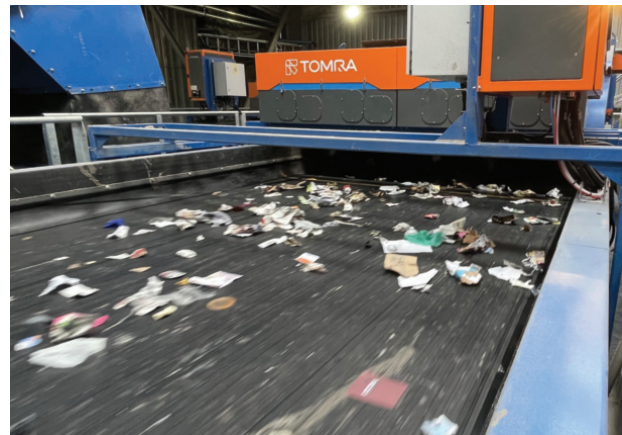
Here in the UK, thanks to continued investment in this key region, TOMRA Recycling now holds an 80% share of the sensor-based sorting equipment market.

Unrivalled service and support

From TOMRA House – a 1,800 sq feet double-storey facility on the outskirts of Leicester – TOMRA Recycling offers customers industry-leading service, quick and easy access to spare parts and unrivalled engineering support.

To ensure greater coverage of the UK market and to be able to react faster to customers' requirements, TOMRA has recruited additional Field Service Engineers. The now 13-strong team comprises a Service Manager, a Field Service Optimiser and 11 Field Service Engineers. On-site support is available whenever required, but more than 80-85% of customers' support needs can be resolved remotely either over the phone or via remote access.

With round-the-clock system monitoring and maintenance based on data from TOMRA's machines' smart sensors, TOMRA can minimise customers' downtime, improve their sorting performance and reduce their capital expenditures. Customers are offered training so they can equip their onsite operators and maintenance staff with the knowledge and skills to ensure the optimal performance of their machines, and to undertake routine maintenance and troubleshooting themselves.



Committed to innovation and digitalisation

As TOMRA celebrates its 50th anniversary, the company is looking ahead to the next chapter in its story and has plans to step up its role in leading the resource revolution. Through world-class innovations such as its latest generation AUTOSORT® unit, TOMRA is helping to close the recycling loop on metals, plastics, paper, packaging, glass and much more.

The company is committed to exploring opportunities to incorporate technologies such as Artificial Intelligence (AI), deep learning, robotics and lasers into its systems to further enhance their sorting capabilities.

With the global waste sector embracing digitalisation, TOMRA's cloud-based solution, TOMRA Insight, provides customers with a secure, near real-time and on-demand monitoring platform for their sorting lines, allowing them to access digital metrics on the status and performance of their sorters wherever and whenever they wish. TOMRA Insight is already helping customers to maximise their plant throughput, boost their sorting performance and optimise their output quality.

TOMRA's continued investment in R&D will ensure it can continue to develop future-proof solutions that meet the changing needs of customers and end markets over the next 50 years and beyond!

For more information on TOMRA visit www.tomra.com/recycling, call 0116 218 1430 or email info-uk@tomrasorting.com.



Kiverco provides more automated waste processing plants in the UK

In recent years, automation has played a leading role within waste handling and processing to increase efficiencies, reduce the dependence on labour, and create cleaner recyclable waste products. The drive towards a 'zero-waste' society may be slower than many would like, but it is gathering pace with more and more awareness creating more noise about the need for better waste management. With growing demands placed on the industry, companies are investing in new technology to help achieve better results for themselves, the waste industry, local communities, and the nation as a whole. Labour shortages are also making companies think more about investing in technology and have indeed led to some already taking this decision.

Earlier this year, Kiverco received several multi-million-pound orders from leading waste management companies in the UK, including Excel Waste Management and Holywell Ltd. These companies chose to invest in larger semi-automated waste plants that would increase throughput, improve performance, provide better outputs and ultimately divert more waste than ever before away from landfill.

Advanced Air Separation Technology is becoming more popular as it effectively separates heavy waste such as concrete and brick from lighter waste such as card, paper, and plastic. This first stage separation makes it much easier to further separate this lighter waste into specific waste products either by hand or using Optical Sorting technology. Cameras, scanners, and data accurately identify the chosen waste product and use powerful air jets to remove these products from all other waste. Highly effective and extremely accurate, optical sorters are becoming more commonplace in non-C&D waste sorting but are also appearing in some C&D sorting facilities.

Robotic separation is becoming more advanced and is starting to appear on some sites in the UK. The heavier pieces of waste are more difficult to pick although claw robots are available and have improved. The fast pick robots are more popular though and are mainly used as a quality pick alternative to humans. Despite the appearance of robots recently, they are much less popular than optical sorting which provides a faster separation process at present. This may change in the near future though!

Commenting on the trend towards larger and more advanced waste plants in the UK, Con Gallagher, Global sales Manager concluded:

"We have been supplying the waste sector in the UK for almost 30 years and have seen certain trends evolve during that time. The market is demanding better separation with guaranteed results and is challenged by the serious lack of labour to manually sort waste. Our offering can be as basic as a customer wants or as automated as they can afford. The technology is available, and we are constantly innovating to provide our customers with the latest Best-in-Class solutions. Our solutions are highly effective and genuinely game-changing, revolutionising the industry which will ensure our customers are achieving an optimum return on investment and futureproofing their business for many years to come."

Kiverco was established in 1993 and is a family-run business based outside Dungannon, Co Tyrone, Northern Ireland. The Company is a leading manufacturer focusing solely on the waste industry, providing and integrating equipment such as Waste Screens, Trommel screens, Shredders, Optical Sorters, Air Density Separators, Eddy Current Separators, magnets, and Sorting Stations into bespoke waste processing plants for customers worldwide. Kiverco's robust, high-quality equipment is highly recommended within the industry, and they are certainly a company to consider if you are looking to invest in the long-term future of your waste business.



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CK International showcase one of their most popular fully automatic twin ram models at IFAT 2022

Market leader in waste compaction solutions, CK International, is exhibiting at IFAT 2022. CK look forward to showcasing one of their most popular fully automatic twin ram models while celebrating the company's silver anniversary within the waste industry. The CK sales team will be on hand to assist recyclers and waste management representatives with any questions on CK International's innovative baling solutions.

IFAT is the world's leading trade fair for water, sewage, waste and raw materials management, gathering industry experts from across the globe. It is being held from 30 May to 3 June at Messe München in Munich, Germany and will feature more than 3,000 exhibitors.

The team can't wait to return to IFAT Munich after its four-year break. The world's leading trade fair for environmental technologies is the ideal stage to present the extensive CK baler range, CK International passionately strives to be the preferred compaction equipment provider on a global scale with their advanced baling technology and digital data management systems.

Ck International stand at IFAT 2018

Our 2022 delegation will comprise of Paul Conlon, Managing Director, Raymond O'Hagan, UK & Ireland Recycling Sector Sales Manager, Natasha Mitchell, International Sales Manager, Ben Stephenson, Commercial Manager, Andrew Smith, UK & EU Commercial Manager, Gavin Conlon, Sales Support Manager, Stephen Slater, Engineering Manager, Gareth McCullagh Product Solution & Aftersales Manager & Dermot McGready, Supply Chain Manager.





If you would like to book a meeting with one of the CK team, please follow this link -

<https://info.ckinternational.co.uk/ifat-2022-meeting>

Managing Director Paul Conlon said: "We are extremely thrilled to be attending IFAT. We are all looking forward to meeting new and existing customers at our stand to discuss their requirements and applications."

If you are planning on attending IFAT 2022 in Munich make sure to stop and say hello to the CK team and explore their range of fully automatic, semi-automatic and vertical waste compaction equipment- Hall B5 Stand 429/530.





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PMG Services cleans up with new Hyundai HW210A Wheeled Excavator



With environmental concerns at the top of the agenda, a leading provider of operated vehicle hire for the waste management sector has turned to Hyundai's new generation A-series wheeled excavators to streamline processes at its waste recycling facility.

Bristol-based PMG Services is committed to alleviating the environmental impact of its customers' operations, from cleaning, to removal and safe disposal of waste, through to recycling of materials wherever possible. Last year it processed 18,000 tonnes of road sweeper and gully waste, diverting it away from landfill.

The company purchased the Hyundai HW210A wheeled excavator for loading its recycling plants and lorries with the stone and sand that is produced from the plant for reuse in the construction industry and tidying up the yard – and it is a proving a vital tool for the company so far.

As PMG Services Assistant Operations Manager, Paul McGuinness said: "We've become highly dependent on the Hyundai HW210A wheeled excavator, it's a crucial cog in the wheel. Without it, we would be lost!"

From its upgraded, low emission, Stage V engine to its new, cutting-edge cabin design, the HW210A is the heavy-duty excavator that will help your operators achieve new heights of productivity. The HW210A has been designed with state-of-the-art features and technology to make the operator feel in total control on any job site and in any application.

PMG Services Assistant Operations Manager, Paul McGuinness continues: "The cab in the new A-series is a lot more spacious and offers great visibility. You're higher up so you can see more. You've also got the 360-camera system with the radar which helps you to see who's around you. And it pings up when someone comes into your space. With the bigger

windows and more glass, you can see further so you don't have to rely on the cameras but they provide great reassurance when needed.

"The controls in the Hyundai are really smooth and sharp which is great for when you're operating. Productivity is also really good with the machine. It's a bigger machine and the bucket is bigger so you can carry more, load faster and it's more powerful which makes the job a lot easier and quicker.

"We've taken out the service package with Molson Group and they come and do the maintenance on the machine, and we do daily checks and make sure that the machine's safe and operational. To do the data checks on the new machine is a lot easier. I would strongly recommend Hyundai; the brand was recommended to us and I would pass that on as we've had great service. To us Hyundai stands for reliability and user-friendly machines."

Joining the revolutionary Hyundai A Series excavator range, the HW210A is equipped with a fuel efficient Cummins B6.7 Stage V engine. Its compact 6-cylinder configuration delivers impressive power and performance with 31% more peak torque and 5% more peak power than its predecessor. Hyundai's EPFC hydraulic system, in conjunction with variable power control, allows the machine to deliver the exact performance needed. The HW210A is the right machine for heavy-duty applications where manoeuvrability matters.

Established in 1990 PMG Services is the largest provider of specialist operated vehicle hire in the South-West. Its impressive fleet of modern road sweepers and tankers provide the best possible provision for waste management services. With its own waste recycling facility at the heart of its operations in Bristol, PMG Services recycles all the waste it collects – from gullies to construction sites and industrial landscapes to domestic settings.



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- Toolless cutting gap adjustment for quick end product size adjustment.
- Shaft size 3,000mm x 600mm.
- If required, uniform size of end product due to optional screen basket system. 80-250
- Easy access to shredding area.
- Auto standby control.
- Hydraulically adjustable overband magnet.
- Water damping system ecospray.



New SRF plant in Wales raises recovery rates to new level

The new processing plant designed and built by STADLER for Hywel NMP Ltd. is unique in its capacity to treat fines below 50mm, achieving exceptionally high recovery rates with a process that has a remarkably high yield for producing Solid Recovered Fuel, depending on the infeed material.

The increasing urgency in the pursuit of alternatives to fossil fuels and the push for reducing the amount of waste going to landfill, are driving a growth in the

Demand for Solid Recovered Fuel (SRF). The low cost and high calorific value of this fuel makes it an excellent, environmentally friendly solution for high-energy facilities such as cement kilns, as well as Energy-from-Waste plants and Urban Heat Networks. "This sector is now well established in countries such as the UK, the Netherlands, Germany and in Scandinavia. It is expanding and we expect it to continue to grow," comments Dr. Benjamin Eule, Director of STADLER UK.

STADLER is in the process of commissioning a brand-new SRF plant in Nine Mile Point, in Wales, United Kingdom for Hywel NMP Ltd., which will have the capacity to process 25 tonnes/hour of residual waste. STADLER designed the plant in collaboration with the Customer to process a wide range of input materials with particular attention to the recovery of SRF out of fines, optimizing the overall recovery rate.

The input material is fed into a front end shredder, followed by a waste screen to remove fines. The material goes through a Ballistic Separator to create 2D, 3D and fines fractions. Overband magnets and eddy current separators remove remaining metals. The resulting material mix after NIR detection and air separation is further reduced in size by a secondary shredder to produce 40mm SRF. The process extracts mixed plastics, fibre, non-ferrous and ferrous materials, which will be sold on to secondary processes.

"The plant is specifically designed to treat fines, which is unique. This has the great advantage of recovering the more difficult calorific value materials, therefore reducing the amount of residue produced by the plant," explains Dr Eule. "The process has a very high yield for producing SRF, depending on the incoming material."

Another important advantage of STADLER's design for Nine Mile Point facility is the extensive access to the conveyors and processing equipment for maintenance and operation, which maximises the plant's uptime and efficiency.

The installation of the plant started on schedule on January 22, 2022 with Cold Commissioning scheduled to be completed in early May, and Hot Commissioning is planned for June. "The global supply chain issues and travel restrictions due to Covid-19 were challenging, but we were able to deliver on time," concludes Dr Eule.



Construction and demolition waste: from downcycling towards closed - and open -loop recycling



Juan Carlos Hernandez Parrodi

The construction industry generates paramount quantities of waste. While recycling rates of construction and demolition waste (CDW) vary around the world, in all regions most of the material recovered is downcycled into low-quality materials or sent to landfill. As the demand for raw materials is growing and the depletion of natural resources is on the rise, advanced waste recovery facilities and recycling plants are becoming the focus of attention. STADLER, a leading

supplier of sorting plants for the recycling industry, is seeing a rise in the demand of waste sorting plants capable of producing high-quality materials that can be recycled to partially replace raw natural resources in the production cycle of construction materials.

The construction industry is by far the biggest generator of waste in the European Union – about 870 million tons in 2017 – which accounts for 30% to 40% of the total waste generation in industrialized countries. In spite of the high volumes of generated CDW, its recycling rates vary enormously in different countries around the world: while countries including the Netherlands, Ireland and Hungary reported recovery rates of 99% to 100% in 2017-2018, the figures for other nations ranged from 0% to 69%. In all cases most of the recovered materials are downcycled – mainly used for backfilling in road construction, building foundations or embankments – or sent to landfill. This means that the recovered materials do not replace or significantly reduce the use of raw materials in the production process, hindering an effective circular economy.

CDW: a high recycling potential

"This represents a huge untapped potential," says Dr. Juan Carlos Hernández Parrodi, Senior Project Manager, Research & Development at STADLER. "Typically, CDW is made up of concrete, wood, metals, glass, masonry rubble, stones, soil, sand, gypsum, plasterboard, asphalt, plastics, insulation, paper, cardboard and salvaged building components. There is very little that can't be recycled – the recycling potential of this waste can be higher than 90%."



Recovered materials from CDW can be recycled in a variety of applications. For example, today less than 5% of recovered aggregates are used in the production of new concrete. However, recovered aggregates are said to be suitable for the substitution of 10% to 20% of virgin aggregates for many concrete applications, which range from pipe bedding to concrete and block construction. "In fact, some previous studies have pointed out that, if appropriately processed to remove moisture and impurities, recovered aggregates can even have advantages over raw materials in some cases, such as higher compressive strength and a wider range of applications in the construction industry," explains Hernández Parrodi.





very agile in project planning, development and execution. Also, we employ the latest sorting equipment available in the market, such as sensor-based and robotic sorting systems.”

CDW sorting processes need to be flexible, robust and capable of handling high throughputs with considerable fluctuations. STADLER's machines perfectly fit the bill. They are conceived to process large amounts of mixtures of diverse materials in very challenging conditions, such as presence of fines and humidity, as well as heavy and bulky objects. For example, the STADLER ballistic separator STT6000, chain conveyor belt and trommel screen are heavy-duty machines that can withstand the wear and tear associated with processing and recycling CDW, while delivering effective and efficient sorting – and they have a long service life.

The demand for advanced recovery plants is set to increase fast

The effective management of CDW is becoming an increasingly urgent issue. As natural resources are depleted and the demand from the construction industry continues to grow, recycling CDW to replace raw materials is fast turning into a necessity: “Even if we were to recycle 100% of the generated CDW, we would not be able to meet the current demand of construction materials” says Hernández Parrodi.

Awareness among governments, environmental organizations, educational institutions and the general public is growing. The gradual implementation of ordinances and directives in the EU and around the world is diverting increasingly significant amounts of CDW from landfill towards recycling and material recovery plants.

“This evolution is accelerating,” says Hernández Parrodi. “Legislation regulating the amounts of CDW that can be disposed of in landfill is increasingly restrictive and aims to promote the recovery of secondary materials and recycling. At the same time, new regulations are setting high standards for recycled construction materials, encouraging a shift from downcycling to recycling and upcycling. All these factors are driving a fast growth in the demand for technology innovation and facilities capable of recovering high-quality materials from CDW.”

The development of the CDW recycling industry: towards a circular economy

The effective sorting of CDW is key to achieving the high quality levels required for successful recycling and upcycling in a broad range of construction applications. The composition of this type of waste and the requirements for the targeted output fractions varies significantly from country to country, and sometimes even at regional level. “Similarly to other waste streams, such as municipal solid waste or packaging waste, there is no standard recipe for processing CDW,” explains Hernández Parrodi.

STADLER is able to bring its extensive experience in the design of advanced sorting plants to the construction sector, developing tailored solutions to match the individual situations: “The consideration of all the specific factors, together with our know-how, enables us to provide effective, efficient and high-quality sorting facilities. Since we produce and assemble most of our equipment ourselves, we can be



STADLER has successfully applied its waste sorting know-how in a number of CDW projects – the most recent ones for Sogetri in Switzerland and Remeo Oy in Finland. The latter is a pioneering facility that combines a CDW plant capable of processing 30 t/h and a C&I plant with 15 t/h capacity, featuring state-of-the-art Artificial Intelligence (AI) technology from partner ZenRobotics, cutting-edge processes and a high level of automation. Mauri Lielähti, Business Director, Processing at Remeo was impressed with STADLER's tailored approach to the project and ingenuity: “We appreciated STADLER's capability to be innovative, their willingness to seek new solutions and that they were ready to listen to the customer's needs.”

STADLER's sorting plants enable the separation of CDW into different fractions, which can have a broad range of applications. They can substitute raw construction materials such as sand, gravel, metal, wood and many more. Recovered concrete can be used to produce recycled concrete. Recovered fractions from CDW can also be utilized to innovate and produce new materials, such as inorganic polymers and glass-ceramics. “This means that with recovery not only is it possible to close the loop in material life cycles and move towards a circular economy,” concludes Hernández Parrodi, “but it also enables upcycling, consequently expanding the applications and increasing the added value of recovered materials.”

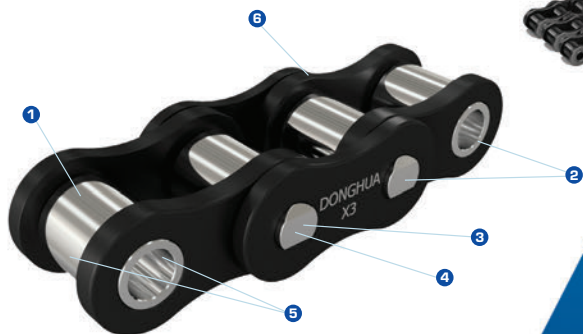
Utranazz launch a new of low-cost volumetric concrete mixers

Utranazz, the concrete equipment specialist, is launching a new range of low-cost no-frills volumetric concrete mixers in conjunction with American manufacturer Global Mixers. The first to be released from the range is the Global G60 which was showcased for the first time ever at the UK Concrete Show. The 9.2m³ capacity, 45m³/hour output mixer has been specifically developed with the operator in mind, utilising Global Mixers wealth of experience in volumetric mixers. It features a modular, open design to ensure simple, cost-effective maintenance and repairs.

The G60 is designed to the highest quality standards, while remaining extremely simple to operate. It is fitted with view windows so that cement levels can easily be checked, and an open conveyor to enable aggregates to be seen prior to mixing. The modular storage bins are angled at 50° to ensure consistent material flow and reduced maintenance. The mixer is operated via a user-friendly electronic control panel for batch and mix designs.



Daniel Wiseman, Sales Director, for Utranazz explained: "The Global G60 is a durable, quality volumetric mixer without any of the complicated electronic control systems that many volumetric mixers now feature. Operators don't need or want fancy electronic systems, they just want a reliable, easy-to-use and maintain machine."



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