



January/February 2020 | Issue 60

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Elite links up with new logistics partner

One of the UK's leading manufacturers of precast concrete has teamed up with a new logistics provider.

Elite Precast Concrete will work in partnership with flatbed haulage specialists Shropshire Express Deliveries to ensure its nationwide delivery operation runs like clockwork.

The exclusive relationship will create a transport solution tailor-made for the precast concrete industry and underline Elite's ethos of providing the highest levels of customer service.



They supply a wide variety of precast concrete products to clients throughout the UK and pride themselves on short lead times from enquiry to quote to order to delivery and have gained an excellent industry wide reputation for providing 'good old fashioned' levels of personal customer service combined with the latest in logistics provision.



Owen Batham, Sales and Marketing Director of Elite Precast, said: "Our logistics operation is very important to us, so it was vital to find the right partners.

"We wanted to build a long-term relationship with a company we can fully rely on and, in Shropshire Express Deliveries, I'm confident we've found just that.

"They'll provide a really cost-effective service carried out by experienced drivers in the highest standard of delivery vehicles.

"But they also place great value on top-quality customer care and that's something we're absolutely passionate about."

Elite also works in partnership with logistics specialists Hallett Silbermann, based in Hertfordshire. The relationship enables the company to provide deliveries that are FORS Gold, Silver and Bronze compliant and that are approved for HS2, Crossrail, CLOCS and Tideway projects in London and the South East.

The business, which operates from two factories in Telford, focuses on providing the best possible value within the precast industry.

A uniquely lean business model enables it to drive down costs and pass savings directly on to customers.

The company manufactures a vast range of semi-dry and wet-cast products for every sector of UK industry and a portfolio that includes interlocking blocks, ballast blocks, safety/security barriers, service protection and drainage products.

The deal will also have significant implications for Shropshire Express Deliveries, according to owner/director Neil Bennett.

The company, also based in Telford, has taken on a string of new drivers as well as office staff as a direct result of the new partnership.



It has brought in five new 44-tonne tractor units, together with trailers featuring side protection, to supplement its fleet of fully Euro 6 compliant vehicles.

And it has installed a state-of-the-art booking and tracking system that enables the company to pick up Elite orders automatically.

He said: "The new partnership is fantastic news for the company and a big step forward for us.

"It's the biggest contract we've won since we launched the business six years ago and it's a real vindication of how we operate. We are proud to have been awarded FORS Bronze

status and are working hard towards achieving the FORS Silver standard. All of our trucks are Euro 6 compliant and we are committed to achieving the lowest possible carbon footprint.

"We're very much focused on quality of service and that was crucial to Elite, which insists on putting customers first."



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Issue 60 -
January/ February 2020

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Las Vegas here we come...

Welcome to our first edition of 2020 - the 60th issue of the HUB-4 which contains a preview of some of the exhibits that will be exhibited at the CONEXPO-CON/AGG show in Las Vegas. Held at the Las Vegas Convention Centre from March 10-14 it is the largest trade show in North America for the construction, concrete, aggregates, asphalt, earthmoving, lifting, mining and related industries.

This year an extended footprint connects the Convention Centre with the Festival Grounds which provides visitors with ten different areas to explore the latest equipment and product innovations.

As media partners the HUB-4 team will be in attendance and this issue will be available from the international press stand.

We shall be looking for exciting product news, and photo opportunities will be available – all to be published in the March review of the show.

This edition also reports on the latest news in the Crushing and Screening sector which can be found on p63.

Looking ahead our March edition will report on dump trucks, excavators, wheel loaders and in recycling – material handlers.

As always if you have editorial please contact me to discuss.

John Edwards

Editor



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Further business development for CMS Cepcor

Founded some 30-years ago CMS Cepcor now employ over 100 people in 3 continents and have enjoyed double-digit growth for each of the last three years.

Today, the Coalville based company is the world's leading aftermarket manufacturer and supplier of premium aftermarket crusher spare parts, mining grade crusher liners and crusher service to mining, aggregate production and associated crushing industries globally.

Carrying the world's largest multi-brand stock inventory to suit the leading crusher brands they boast state-of-the-art manufacturing facilities in the UK that are also utilised in crusher service work. They also offer unrivalled support for 'classic' legacy crusher brands often no longer supported by the OEM.

Recent accolades:

The company were the recipient of a second Queen's Award - The Queen's Award for Enterprise: International Trade 2019, for outstanding growth in overseas sales over the last three years. This was awarded for their significant performance in Europe, Latin America and Russia where the company has had exceptional sales growth.

Exporting to 120+ countries CMS Cepcor was previously awarded the Queen's Award for Enterprise: International Trade in 2012.



Continual investment:

The company has invested millions of pounds in their Coalville sites including the building of a new global headquarters and the opening of a 3,000m² technical centre. Equipped with state-of-the-art CNC machine tools this Lloyds Register ISO9001:2015 certified facility has increased in-house quality control and helped maximise service performance.

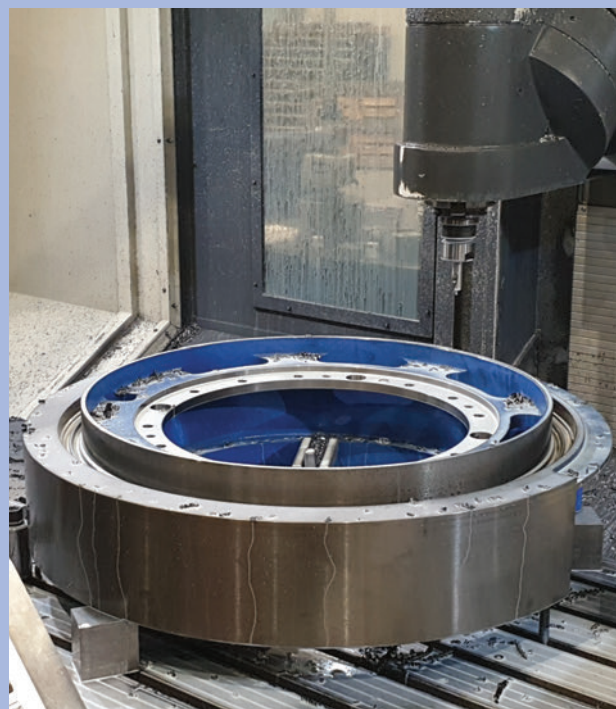
£2 million manufacturing investment:

These investments have continued in their manufacturing facilities to help meet an increased demand for premium aftermarket replacement crusher spare parts. A further £2 million has recently been invested in three large capacity CNC machine tools to increase output and capabilities at their technical centre.

This follows the recent purchase of their new 6,000m² global parts centre in Coalville, which released space at their adjacent technical centre previously occupied by stock inventory of crusher parts.



This investment in new CNC machine tools includes a new high capacity Correa Norma 25 Bed Type CNC milling machine which complements their existing Correa Norma 45 and 25 machines, Doosan 4100 XLB CNC turning centre, along with two new Honor Seiki VL-125CM CNC vertical turning centres that joins their existing custom VL-160CM.



In-house manufacture

These new machines further re-enforce their commitment to in-house manufacturing at their Coalville facility which has made a significant contribution to their 'year on year' sales growth over the last 10 years (including a company 30-year sales record for 2018-2019). All their replacement parts are manufactured, and quality assured to a Lloyds Register ISO9001:2015 quality system.

Matthew Weare – MD, commented, "Following sustained growth in all areas of CMS Cepcor, our current premises at Vulcan Way and Samson Road in Coalville were fast reaching capacity; a situation which had been under review for some



Coalville HQ



time. Based on our policy of continual re-investment and the specialist equipment already installed at both sites, we had been looking to acquire a third site as close as possible to our two existing sites. The new site allows further expansion of our manufacturing facilities at our Technical Centre along with our crusher service facility and large crusher component/assembly storage at our Vulcan Way site. This new facility will improve the efficiency of parts supply to further enhance our reputation."

CMS Cepcor Americas LLC:

Several months ago CMS Cepcor announced the next phase of their business development with the incorporation of a US company, CMS Cepcor Americas LLC.

The principle focus of the company will be to develop the North

American, Latin and South American markets, where they believe there are fantastic opportunities for sales growth, especially for the supply of their precision internal crusher parts.

The new East Peoria, Illinois based company will be headed up by President Doug Parsons, who commented, "We have assembled a talented team of industry veterans who understand what it means to serve customers with high-quality products backed by timely support,"

The new facility incorporates warehousing, quality assurance, engineering and administration and compliments their strategic stock holding of premium crusher spare parts and manganese wear parts in the United States and Latin America allowing them to minimise downtime for customers in this territory.



CMS Cepcor Americas team (left to right) Chris Toews; Vice President of Sales Canada, Mexico and South America, Jim Ulrich; Vice President of Sales USA, Doug Parsons; President, Shandal Tassart; Director of Materials and Philip Hopping; Director of Materials (not shown) along with Yvonne Hutton; Sales Support

A winning team:

The success at CMS Cepcor is due to continual investment and the hard work of their winning team, significant growth in spare part stock inventory and continual development of a product range to serve both modern and classic crushers. Equally spread throughout the Mining and Quarrying sectors, CMS Cepcor have through prioritising service and premium quality products, continued to build trust and confidence in the business.

Visit CMS Cepcor at the forthcoming Hillhead exhibition, Buxton, UK - 23-25 June

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CEMEX upgrades facilities at Salford to improve rail depot capability

Global building materials solutions supplier CEMEX has invested over £300,000 into its Salford railhead, upgrading its track and storage bays to improve safety and allow delivery of hardstone into the site.

This important work forms part of a strategic programme to upgrade all of the track at CEMEX sites across the UK. So far, 300 metres of track at Salford has been replaced along with new ballast, with a further 300 metres planned for this year.

In addition, improvements to the storage bays now mean that for the first time, carriages can travel the full length of the storage shed, utilising all 10 bays.

As a result, the site can now receive hardstone deliveries from South Wales every two weeks by rail, as opposed to using trucks; reducing road movements and offering additional sustainability benefits. These upgrades also ensure increased safety during transportation and discharge.

David Hart, CEMEX's Supply Chain Director for UK & France, commented: "This investment into our railhead at Salford is part of a national four-year programme to raise safety standards across our UK rail operation. We expect to spend a similar figure every year, with work also completed at our Dove Holes site last year."

The improvements at Salford are further complemented by the introduction of new CEMEX-branded wagons, operated in partnership with GB Railfreight. These attractive wagons are regularly used alongside The CEMEX Express, the Class 66 Locomotive unveiled in June 2019.

David added: "Rail is an integral component of our supply chain strategy meaning we are investing into our network to



ensure it boasts industry-leading safety standards and operates efficiently. As we look to grow our transport by rail in order to maximise the time, capacity and efficiency benefits it offers, this expenditure will allow us to increase our rail deliveries into Salford; all while using stylish CEMEX-liveried wagons!"

John Smith, Managing Director of GB Railfreight said: "We are delighted to continue our partnership with CEMEX. The introduction of new wagons and CEMEX's commitment to supporting rail freight is very exciting, especially considering the need to reduce carbon emissions.

"Our services have already removed a considerable number of trucks from the road, helping to ensure operations are carried out in the most sustainability way. We look forward to working with CEMEX in 2020 to ensure this partnership continues to flourish."

For further information, please visit www.cemex.co.uk

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Tributes paid to JCB employee number 3 who dies aged 86



Bill Hirst MBE pictured in 2010

Tributes have been paid to a former JCB employee who joined the company as a teaboy and rose through the ranks to become a director.

Bill Hirst MBE - who was the third person recruited by JCB in 1947 - passed away last night (Sunday, January 5th) at the age of 86.

Today JCB Chairman Lord Bamford led the tributes to the man who joined JCB as the company was in its infancy. Lord Bamford said: "Bill and his generation helped my father to build a company which became a real force in the world of construction equipment. Bill was very proud to have worked for JCB and will be remembered by many, many people from the early days of the company. I'd like to offer my condolences to Bill's wife Jean and all her family at this very sad time."

Bill, the fourth of eight children, joined JCB as a 14-year-old tea boy when he left St Joseph's School in Uttoxeter, where he had been Head Boy.

He was recruited on a salary of £1 a week when the company was based at stables at Crakemarsh, three miles down the road from JCB's World Headquarters at Rocester.

And it was Bill who was instrumental in the relocation to Rocester in 1950 to the site of a former cheese factory. Bill knew JCB Founder Joseph Cyril Bamford was searching for a new location for a factory and suggested the Rocester site - because it was closer to home and meant he could spend an extra 10 minutes in bed each morning.

Bill started his National Service in 1951 as was posted as a Royal Military Policeman to Kenya, returning to JCB two years later. He married his wife Jean in 1955 and the couple had four children.

On his return to JCB, Bill completed 10 years as welding foreman, five in research and then joined the service and spares department at Rocester as service engineer, later becoming Warranty and Final Inspection Manager. He was awarded the MBE for services to export in the New Year's Honours List of 1975 and became Technical Services Director in 1981. Bill Retired in 1991. He was a staunch supporter of the Royal British Legion and served as President of the Uttoxeter branch in retirement.

Speaking on JCB's 65th anniversary in 2010, Bill said: "I am proud to have been part of JCB - it's been my life."



L-R in 1947 at Crakemarsh are Bill Hirst MBE, employee number one Arthur Harrison, employee number two Bert Holmes and Company Founder Joseph Cyril Bamford with a young Lord Bamford in his arms

Superior invests in experienced manufacturer to improve global coverage

Superior Industries, Inc., a U.S. based manufacturer and global supplier of bulk material processing and handling systems, is excited to announce a new partnership with AMPCO Minerals. An investment into the manufacturer of crushing, screening, washing and conveying equipment furthers Superior's vision of growing a global brand.

"Whether it's application advice, service response or manufacturing efforts, our goal is to be closer to our customers," says Jarrod Felton, president of Superior Industries. "This partnership allows us to continue improving our results for them."

Working in a brand new purpose-built factory in Shanghai, Superior will design and manufacture a complete line of bulk material processing and handling equipment for customers outside of North America.

"This is an investment in a team whose core members each have more than 30 years of experience developing crushing and screening technology for our markets," says Felton. "They are accomplished professionals that people in our industry know and trust."



Meanwhile, the Shanghai-based production facility will improve responsiveness, reliability and quality of Superior's North American supply chain. U.S. and Canadian-based plants will have new access to a dependable, high-quality chain of supply partner for select crushing and screening components.

TDL focus on Atlas products in the Scrap & Waste Industries

2019 has been a challenging year within the industry, Brexit uncertainties have delayed investment on infrastructure with the knock on effect that customers are also holding back purchasing capital equipment. Since July sales of excavators have dropped considerably over previous year's sales.

Sany have recently announced that it will be setting up a UK office and will be looking for more dealers, this removes the exclusivity that we enjoyed. This change means TDL have had to review how it covers GB, and have decided in the best interest of TDL to withdraw selling and supporting this product with immediate effect.

For Scottish customers we have had to make the hard decision to close Coatbridge, this being completed by the end of January. On the back of the Sany decision we have also decided to terminate our current dealership relationship with Genie and Mecalac. We are working with Sany, Genie and Mecalac to support a smooth transition to other dealers.

TDL's future focus will be Atlas products in scrap and waste industries covering Great Britain.

Andrew Taylor - Dealer Principal TDL Equipment



High capacity shredding with Terex Ecotec's new TDS 825 Slow Speed Shredder

An industry leader in the design and manufacture of wood processing, biomass and recycling equipment, Terex Ecotec has achieved significant growth and development and today offer a comprehensive product portfolio of mobile shredding, screening, handling, separating and conveying equipment. Continually striving to introduce new technology to the market, Terex Ecotec are delighted to launch the new TDS 825, a robust twin shaft, slow speed shredder.

Ideal for large-scale operations, this high capacity machine takes shredding to the next level and is suitable for all types of material including household waste, bulky waste, commercial waste, green waste, waste wood, tree stumps and roots. Customisable shredding programs allow operators to configure the machine to their specific requirements, maximising production. The hydrostatic drive offers protection against contamination and allows for bi-directional shredding, while independent gear boxes enable each shaft to be run separately, helping to reduce wrappage and improve the shredding of material. Should a blockage occur, the shafts can be controlled via the radio remote control allowing material to be repositioned before attempting to shred again. The double shaft shredder has 2.5m long shafts made from solid steel, with a fully welded tooth configuration giving an extremely high production rate with excellent size reduction. Located in the centre of the chamber, directly below the shredding shafts is the replaceable breaker bar, which controls the end product size by retaining material in the chamber to aid reduction and protects the transfer belt from damage caused by large pieces of contaminants. A number of breaker bar options are available depending on the level of reduction required, these are easily replaceable due to the side door chamber access.

Powered by a 770HP Scania V8 DC16 engine, the machine has been designed to provide operators with unrivalled levels of service access. The high volume, tipping hopper increases the feed area providing optimum material feed and can be activated using the control panel or via the remote control. Tipping cycle times can be configured to suit the application.



Hydraulic folding hopper extensions allows for increased capacity, preventing the infeed material from falling out especially in bulky applications.

Quick and easy set-up from ground level is guaranteed, taking a matter of minutes with no tools or working at height required. The overband magnet providing magnetic separation is both height and angle adjustable hydraulically, and lifts up and away from the product conveyor when not in use. All conveyors are built to a modular design allowing each one to be removed independently for ease of maintenance. A separate transfer conveyor with a high specification belt ensures material is effectively removed from below the shredding chamber. The product conveyor raises hydraulically and folds into maintenance mode to allow removal of the transfer conveyor. The TDS 825 is manoeuvred via a robust tracked undercarriage, making it a great solution for difficult terrain.

The addition of the TDS 825 Slow Speed Shredder will further enhance an already significant portfolio of products offered by Terex Ecotec, meeting both market and customers' needs. It will be available to purchase via Terex Ecotec's world class dealer distribution network that provide the sales and aftermarket service demanded for in the market place.

To learn more about the new TDS 825 and to locate your nearest dealer visit www.terex.com/ecotec



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Mick George Concrete takes a leading role in the supply of low-carbon alternatives

Mick George Concrete is taking a leading role in the supply of low-carbon alternatives to the East Anglia and East Midlands construction industry, having dedicated a 100-tonne silo at its Cambridgeshire based batching plant to Cemfree, a low-carbon sustainable cement.

As concerns over carbon emissions and climate change escalate, Mick George Concrete has responded to unprecedented interest for a 'green' solution by becoming the first RMC supplier in the region to stock Cemfree in this way.

Cemfree is an ultra-low-carbon cement produced by Cambridgeshire-based building materials company DB Group (Holdings) Ltd. The product can achieve embodied carbon savings of up to 80% when used to replace ordinary Portland cement (OPC) in concrete production.

When you consider that concrete is the third highest source of man-made CO₂ and that the global production rate of OPC currently stands at 4 billion tonnes per year contributing almost 4 billion tonnes to the Earth's all-time high CO₂ levels, you can see why this has already attracted

significant interest.

As such, an agreement is in place with Highways England to trial the product on a series of ancillary applications (kerb backing, drainage, mass fill, signage) utilised within a controlled, live section of the £1.5bn A14 Huntingdon to Cambridge improvement scheme.

Mick George Concrete, exclusive concrete supplier to the A14 project, will be supplying up to 500m³ of Cemfree early in the new year, representing a pioneering test for low-carbon concrete as a technically appropriate, permanent application on major infrastructure projects.

Keen to demonstrate Cemfree's practical applications, Mick George Concrete in collaboration with DB Group (Holdings) Ltd, has agreed to absorb the additional cost of utilising the environmentally friendly product within the project, a benefit that is anticipated to save approximately 500 tonnes of carbon.

Michael George, Managing Director at the Mick George Group, commented: "Due to an increased corporate emphasis on carbon reduction targets, there is undoubtedly more environmental consideration in construction build designs."

George continued: "We have a strong reputation for developing cutting-edge solutions and niche products, the introduction of Cemfree represented an opportunity to do both simultaneously."



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Miller UK donate £5,000 to local North East charity

It's been less than a year since Sarah and Christopher Cookson tragically lost their son Carter who was born prematurely on Boxing Day, 2018. Within the first hours of his life the beloved baby suffered three cardiac arrests and consequently needed a heart transplant to survive. Tragically, Carter was just over three weeks old when he lost his fight on the 19th January, 2019.

Sarah and Christopher Cookson from South Shields also lost their first son Charlie Cookson aged only two due to a mystery progressive disease and now, in their honour they run The Charlie & Carter Foundation in the memory of their two children who were so cruelly taken from them.

After hearing of the pain and heartache that this local couple had gone through, north east based earthmoving attachment supplier, Miller UK pledged to support this local charity during 2019 and have spent the past 12 months organising fundraising days.

The staff at Miller have been determined to raise as much money as possible for The Charlie & Carter Foundation and for every pound that they have managed to raise, the Chairman Keith Miller agreed to match it with a company donation. Throughout the year, the entire team took part in a range of fundraising activities including walks, bake sales, quizzes and a cycling challenge. In addition, Keith's own children Wils, Emmie and Sadie did all that they could to help raise money including selling some of their toys and Sadie even took on the challenge to quit sucking her thumb resulting in another £100 donation!

Through all of these fundraising events and challenges, Miller UK raised a remarkable £3,000 however, after Keith met

Christopher and heard in person about how much impact the donation would make, Keith generously increased the donation to a whopping £5,000! The team from The Charlie & Carter Foundation were presented with the cheque during their visit to Miller HQ in Cramlington, Northumberland earlier this week.

"We are lucky to have a successful business around the world, and I have achieved this by living my life by three simple mantras, work hard, play hard and if you can, give something back... the giving something back is hugely rewarding," said Keith. "We are so proud to be associated with The Charlie & Carter Foundation and we're very privileged to be in the position to help and support them as our charity of choice for 2019. The team at Miller have done an incredible amount of fundraising and the company pledged that they would match every pound that was raised," he added.

The Charlie & Carter Foundation provide financial support to parents of seriously ill children with life-limiting conditions that require 24 hour nursing care or specialist nursing facilities. The target for the charity is to help 12 families per year at the cost of £36,000 and the donation from Miller will be enough to help two of those families this year.

"We have a lot of families all around the UK that are in desperate need and it's thanks to donations like these that we are able to provide support through The Charlie & Carter Foundation. Everyday life can very quickly become extremely difficult coping with the stresses and strains on top of caring for a seriously ill child and we will continue to support the families who are going through this," said Christopher.

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A BINGO moment for aggregate recycling

December 2019 will see a significant milestone for the re-use of fines as aggregate - in Australia and the world - as a ground-breaking processing plant is commissioned.

Turmec's hybrid dry and wet plant for BINGO Industries is the first recycling facility of its kind.

The waste management group, which serves New South Wales and Victoria, commissioned Turmec to design and build the plant for its Patons Lane RRC facility in Orchard Hills, NSW.

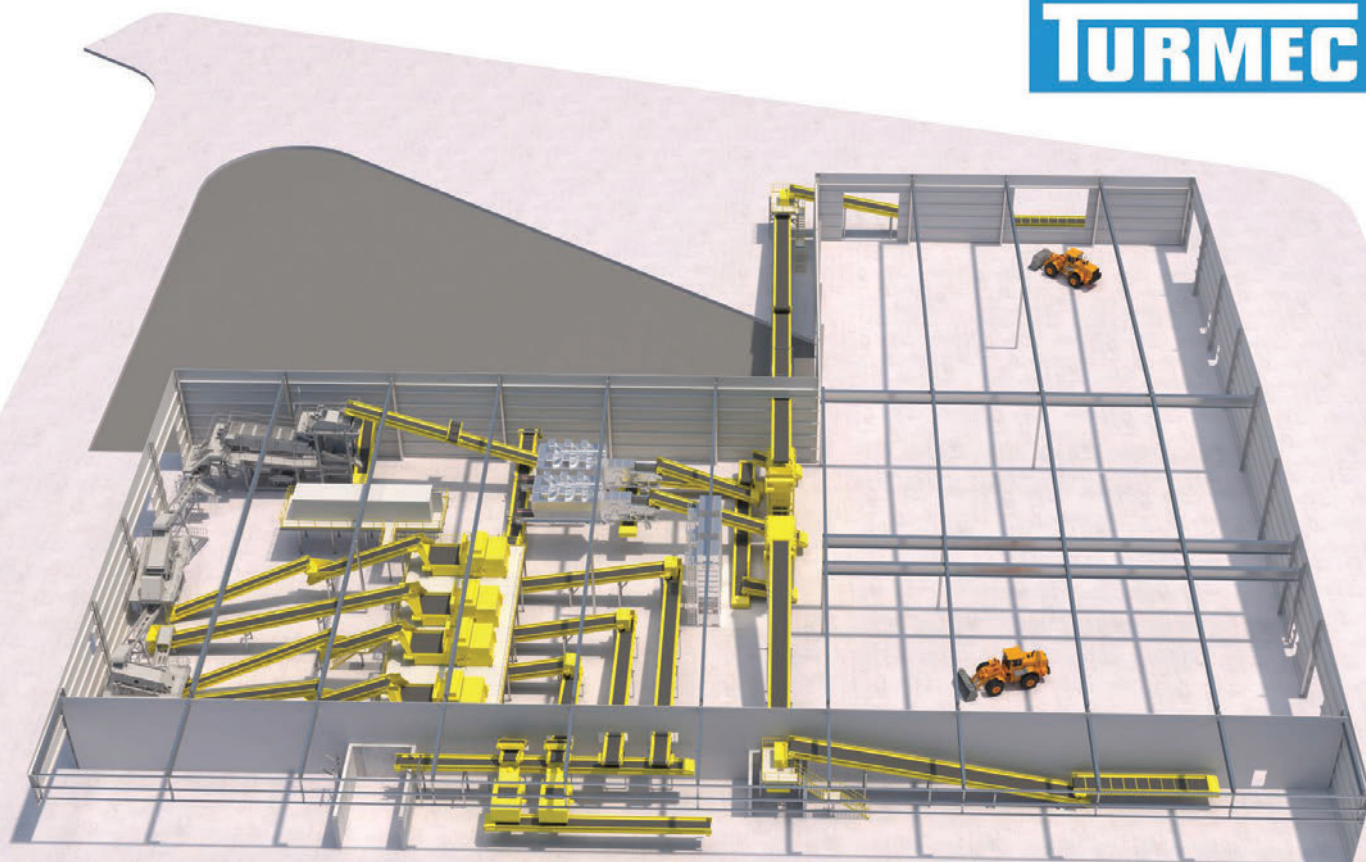
Capable of processing 150 tonnes of 0-60mm fines material per hour, the state-of-the-art plant's dry plant combines screens, air separators, magnets and eddy currents with optical x-ray technology. Its wet technology uses McCloskey International wash systems.

Fines in waste from construction and demolition, and commercial and industrial streams, are easy to process but difficult to refine. Our plant can remove contaminants, including both ferrous and non-ferrous materials, and produce five different grades of certified aggregate. These products will then go straight to end users, saving on both reprocessing costs and traffic movements.

BINGO chose Turmec as turnkey partner capable of taking this project successfully from concept to completion. Both companies worked closely throughout all stages, from the design process through the 8-week install phase and now getting ready for the two commissioning weeks.

"This is a landmark project not only for Turmec but for both parties," said Brian Thornton, CEO of Turmec. "This plant's innovative mix of technologies makes it the first of its kind in the world as well as our first project for BINGO. We're very excited to be commissioning this plant and to see what the products look like at the back end. BINGO's fantastic projects team are easy to work and helped ensure clear communication and the smooth delivery of this project."

This is Turmec's fourth major plant in Australia. Now a well-established name in waste management and recycling down under, Turmec has a long-established profile of designing and delivering cutting edge recycling plants and plant upgrades across the globe.

The Turmec logo consists of the word "TURMEC" in white, bold, sans-serif capital letters, set against a blue rectangular background.

ODS Environmental Group expand their operations



Stewarton's Odour and Dust Solutions has been operating for over a decade from their base in Ayrshire. A family run business, they have seen massive growth in recent years as they've expanded operations and began working with national companies throughout the UK.

The company specialises in the controlling of dust particles and suppression of industrial odours. The company also spreads awareness and knowledge on the subject, informing workers on how to best protect themselves.



New Technologies

Part of the recent success of ODS has seen them secure an exclusive contract with Dutch giants FreshFilter. They specialise in specialist filter systems for enclosed spaces such. The systems are used on haul trucks and mobile machinery to protect the operator against polluted substances and gasses which are released with remediation, sorting halls or compost processing.

To prevent the outside air from entering the cabin, an artificial - but relatively small - pressure difference is created in the cabin so all air flows can go outside through the remaining gaps. ODS are the only company in the UK permitted to sell and install these state-of-the-art systems.



In addition to the cab filter systems, ODS also provide real-time dust monitoring equipment. These systems, made by Trolex, give a live reading of atmospheric dust levels to the user. By doing this, construction sites across the country can know when levels become too high, and when the health of the on-site workers in danger.



The Air XD Real-Time Dust Monitor uses lab-grade precision laser technology to continuously measure particulates of multiple sizes in harsh and hazardous environments. Improve air quality and protect the health of your workers.

IECEx certified and five times more accurate than the industry standard model, the Air XD Real-Time Dust Monitor offers unparalleled accuracy and reliability. The unit is simple, lightweight and durable, and contains no pumps or filters meaning ultra-high reliability and incredibly low maintenance, reducing the overall total cost of ownership.

Training Courses

This year will see the launch of brand-new training and awareness courses by ODS. These courses are designed to inform all workers on the dangers of silica dust, asbestos and bio-aerosols. The courses will delve deep into the matter and help to educate people on the risks of inhalation. By the end of the course, everyone will have a greater understanding of the problem and a better knowledge on how to improve the situation.

These courses will take place throughout the UK and can be booked by companies looking to improve their health and safety record. The courses are not only useful when it comes to the well-being of employees but could also save you from harsh penalties and fines.

Dust Suppression

For years, ODS has been designing, building, installing and maintaining sprinkler systems, high pressure misting systems, atomizer systems and fog cannons. As agents for Idrotech and Pramac, ODS are able to supply a wide variety of different technologies to handle dust suppression.

Sprinkler Systems

Dust control on roadways, stockpiles and in large yards can be a tricky thing to manage, sprinkler systems are perfect for the job though. Sprinkler systems can be fitted with timers which allow full automation. Mobile trailer units which make use of 2 sprinklers are ideal for small sites, while full systems are better suited for larger sites. In terms of what's available to customers, a fully bespoke package can be designed and built depending on the client's requirements and expectations.

Fog Cannon Systems

The Rino is a newest fog machine from Idrotech. Designed to produce maximum droplets through increased water flow, the Rino is great for use in the quarrying, demolition and mining industries.



The Rino is one of several models, including the Elefante and Giraffe, designed to be used in larger areas. All units come with low- or high-pressure settings, automatic running and oscillation feature. Electric controls are fitted in stainless steel cabinets, which are aesthetically pleasing and supplied at below market prices.

Expertise Guaranteed

ODS pride themselves on their innovation, drive to improve and the industry expertise they have accrued over the last 12 years. With advanced equipment on offer – including machinery produced and developed in-house, ODS guarantees that they will create a safer working environment for you and your personnel.



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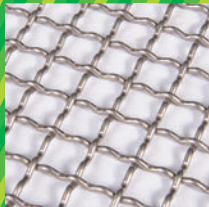
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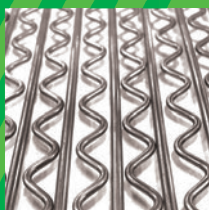
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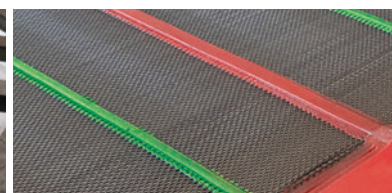
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CRJ Services Ltd expands Irish operation with new Co. Tyrone depot.

CRJ Services Ltd is a leading material processing equipment solutions provider. We operate a hire fleet of over 80 various material processing units, as well being the UK and Ireland dealer for world renowned OEM's; Haas, Weima, Steelweld and Ecostar.

Having had a presence in the Irish market for several years, we have built up a reputation and customer base to a point where the demand for our services in this market warrants a dedicated depot.

This new depot allows us to service our Irish customers with the same service levels that have seen our mainland UK business grow from strength to strength.

"We have hired shredders from CRJ in the past. We have always been happy with the performance, and we value CRJ's advice and assistance with getting the machine optimised for working on our material. Our dealings with CRJ and the service they provide have been excellent."

Gerard Campbell – Waste to Energy Plant Manager at Regen Waste Ltd

"We've made significant investment in our hire fleet in recent years, which has allowed us to move a number of machines permanently to Ireland.

"Having equipment based in Ireland will lower transportation costs and reduce lead times for our customers. We have also introduced dedicated mobile engineers based in Ireland, allowing us to be more reactive to customers' needs.

"We began servicing Ireland a number of years ago, and we owe it to the Irish market to have a supply of machinery and service infrastructure on Irish soil."

Ben McQuaid – Director at CRJ Services Ltd

"The new depot will also allow us to stock spare parts, enabling our mobile engineers to efficiently maintain the equipment, and respond quickly to service issues. This will also reduce lead time and delivery costs for any of our Irish customers purchasing spare parts.



"We started using CRJ Parts after searching for alternative part suppliers due to the need to reduce running costs on our Doppstadt AK510 high speed shredder. From switching to CRJ's bear paw teeth, we have reduced costs dramatically while not skipping on quality. We

also carried out a mini-rebuild of our Doppstadt AK510 shredder last year, saving over £7000 compared to using genuine parts and have not been disappointed with the quality supplied."

Don Aiken – Greenacre Composting Enterprises Ltd

"The team at CRJ are a pleasure to deal with. The communication has been fast and informative. The trommel and picking station were delivered on time, and the training was thorough. Very happy with the quality of the equipment and would definitely use CRJ again."

Alan Reilly – Director at St Margarets Recycling & Transfer Centre Ltd

"Our service in Ireland is nationwide, and our Area Sales Manager, Damian Casey is on hand to deal with your material processing equipment & parts enquiries."

For more information on CRJ Services Ltd, please visit www.crjservices.co.uk or contact Damian Casey – CRJ Area Sales Manager - 07494 567982

German Company create a new product with Kiverco Recycling Plant

Like many waste processing companies throughout Europe, German company, Recycling Park Dorndorf GmbH (RPD GmbH), were faced with some challenges due to the introduction of new legislation. They reacted by changing their technology to improve quality, ensuring their products would be of an acceptable standard for export and resale. This was achieved through the installation of a Kiverco recycling plant, where they were also able to increase capacity and the add a new fines product to their range, thereby increasing their profits.

Established over 25 years ago, RPD GmbH have a wealth of experience and have become a trusted partner in the German waste processing market. Faced with tighter restrictions on waste treatment in Germany and local incentives for producing fines products, RPD GmbH recognised the need to invest in new ways of improving the quality of their products. Through Christophel GmbH, a long-established materials

handling equipment supplier in the German market, they were offered a solution in the form of Kiverco equipment. After seeing Kiverco equipment in action, they were very impressed with the combination of Kiverco's high-quality build coupled with the local support offered by Christophel GmbH. They concluded that Kiverco offered them the ideal solution to help them improve the quality of their waste.



The Challenge

RPD GmbH feed material is Refuse Derived Fuel (RDF) sourced locally and from Europe. After the shredding stage, one of the main issues they faced was that they were not able to efficiently screen their fine material which was subsequently affecting the quality of their products. In collaboration with Christophel GmbH, Kiverco sent over their technical team to inspect the site and advise on various solutions that they could offer to suit their requirements.



The Solution

A Kiverco Feeder and Trommel was added to their current certified waste management processing facility. What they were delighted to discover with the Kiverco equipment was that it not only helped them create a new marketable fines product but it also improved the quality of their other products and increased their capacity, thereby increasing profits.



Owner and managing director of RPD GmbH, Mr. Hans-Georg Limburg, explains, "From the outset I was reassured by the professional approach of both Christophel and Kiverco. An initial consultation phase with Marcus Linhart of Christophel, assisted by the Kiverco team, showed that they were interested in understanding my needs and providing the correct solution, to get it right first time. This was quickly followed by a site inspection by the Kiverco engineering

department which resulted in further consultation to optimise the plant. I was particularly impressed by the installation process; nothing had been left to chance and the equipment was installed like clockwork with hour by hour lift plans meaning much of the equipment was installed without touching the ground! I was not surprised that the testing was a formality. The build quality evident in the equipment tells me this was a solid investment for the company."

Marcus Linhart of Christophel GmbH stated that they were delighted at how the process had unfolded, "We were aware of Kiverco's reputation as a quality plant builder in the recycling industry for years. We were happy to have the opportunity to work with them and RPD GmbH on this project and believe the equipment now installed will contribute to the continued image of RPD GmbH as a reliable waste disposal partner, built up over more than 25 years."

Gabriel O'Keefe, Kiverco's Export Sales Manager for Germany states, "This project underlines the effect that changes in legislation can have on a company such as RPD GmbH. For our part, we are not only able to manufacture and install the equipment but are able to advise on a solution and how to turn, what is seemingly a negative, into a profitable opportunity."



RPD GmbH

Recycling Park Dorndorf GmbH are a certified disposal specialist for the recycling and disposal of waste of all types such as Commercial & Industrial and Household waste and have been operating since 1994 in Krayenberg, Thuringia.

Kiverco Ltd

Kiverco are located in Northern Ireland and are well-known in the waste equipment market for their solid and robust equipment. Their mission is to provide customers with a complete recycling solution that is designed to produce higher quality recyclable products and faster financial returns. As well as their own manufactured equipment, they also incorporate market leading technology from around the world. So, whether you are a small or a large plant operator, Kiverco can provide you with a solution that suits your requirements and your waste stream.

Christophel GmbH

Established in 1984, Christophel GmbH are based in Lubeck, Germany and are a long-established materials handling equipment supplier in the German market.



Aggregate bays for the Waste Management and Recycling industries

NP Structures' range of Aggregate Bays are their newest development, already being widely distributed around the country in Waste Management and Recycling industries. Designed to be mounted onto concrete blocks to create robust recycling and storage bays, the AG-Shelter is 100% modular to create lengths of any size in 2m increments. Allowing the flexibility to extend, reduce or relocate where required. NP Structures' temporary and semi-permanent structures are the ideal low-cost solution for industrial storage.

NP Structures have teamed up with Manchester based company, WotBlock, to give clients a full-service experience from ground preparation and layout to applying the final touches on the weatherproof PVC membrane. WotBlock are one of the largest suppliers of concrete interlocking blocks, supplying an extensive range of block sizes with stocks of over 1,000 at any one time. WotBlock has been working within Waste Management and Recycling industries since 2011.

NP Structures PVC-clad building are also available as freestanding models, designed to be bolted directly onto a solid concrete base, and their most popular design; the Container Canopy. As the name suggests, these structures create covered storage space between two shipping containers.

Traditional British manufacturing has been at the heart of NP Structures culture since 1969. Coupled with innovative technologies and an in-house structural design team - NP Structures are the leading authority on economical, semi-permanent PVC-clad buildings.



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Horses for Courses at L & S Waste Management

Hampshire based L & S Waste Management Ltd has just added two new Volvo excavators to its fleet of mobile equipment that take up residency at the company's Portsmouth recycling centre.

The two new machines are a twenty tonne EC200E which was launched globally earlier this year and the slightly larger EC220E weighing in at twenty two tonnes. The machines were chosen thanks to the reliability and performance of two EC140E models purchased last year at the beginning of 2019 according to Transport and Plant Manager Dominic Sales. "The two fourteen tonne machines have proved to be very reliable and the support from SMT GB when required has been excellent, which has prompted us to opt for the larger machines for the Portsmouth facility."

The two new machines fulfill two specific applications at L&S Waste Management's Portsmouth facility. The EC200E equipped with a selector grapple is in charge of sorting the incoming material which is comprised of general industrial inert waste, skip waste, rubble and demolition waste. Powered by a four-cylinder Stage V compliant Volvo engine developing 156 nett hp, the EC200E is well specified for this application. For example the machine is equipped with hose rupture valves to the boom and dipper cylinders, quick fit hydraulics, hammer/shear lines and the optional X3 rotation circuit to operate the selector grab. The machine has an ample working geometry thanks to the combination of the 5.7m boom and 2.9m dipper arm allowing it to maintain a relatively static position for sorting and rehandling.

The slightly larger EC220E was chosen primarily to load concrete, rubble and hardcore into a primary crusher and also to break larger oversized material with the aid of a hydraulic hammer and a hydraulic pulveriser. "It was the flow and operating pressure requirements of the pulveriser that dictated the choice of the EC220E," continues Dominic. "The larger six cylinder engine together with the optional two pump flow on the machine compared to the EC200E provides 330 litres of flow at 380 bar pressure which is sufficient to run the pulveriser, with plenty of reserve for operating the hammer."

Both machines have been supplied to L&S Waste Management with an SMT GB Level 2 ENHANCE service agreement whereby highly qualified SMT engineers will carry out all scheduled servicing. This is backed up by a Customer Service Guarantee that ensures SMT service the machines to the level of quality and time committed to.



With its head office located in Fareham, L&S Waste Management operates two recycling and processing plants in Portsmouth and Southampton as well as a new aggregate railhead depot in Southampton. The recycling and processing operations are underpinned by a large comprehensive transport fleet made up of skip lorries, grab lorries and tippers as well as volumetric lorries, concrete pumps and road sweepers.

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.



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Lowmac expands Liebherr fleet with UK's first A914 material handler

Lowmac waste and recycling has become the first UK operator to bring the new Liebherr A 914 material handler into service at its materials recycling facility in Ayr, Scotland.

The A 914 will join a fleet of dedicated material handlers from Liebherr and will be used to sort and load the large volumes of mixed waste and recyclable materials that are managed on the site.

The 19-tonne material handler carries a 9m boom and dipper combination and is powered by a D924-FPT Tier IV compliant 4-cylinder diesel engine designed for Liebherr which delivers 143hp at 1800rpm. The machine's compact overhang minimises the risk of damage to either the counterweight or objects around the machine.

The purpose made chassis carries a pair of stabiliser legs to the rear with a heavy-duty blade to the front. A set of 8 solid tyres with intermediate rings and a comprehensive package of sturdy galvanised steps complete the chassis specification.

As standard the machine comes with a hydraulically elevating cab which offers almost 3m of elevation, ideal for loading bulk tippers and walking floor trailers. The ergonomically designed cabin means all the controls are laid out to hand and an integrated colour touchscreen provides information within easy reach of the operator. A sturdy front protection screen and FOPS guard also protect the operator from any errant material whilst working.

Fitted with a Liebherr SG20B sorting grab with perforated shells and a nominal capacity of 0.4m³, the Lowmac machine is ideal for the pick and sort operations it undertakes on a daily basis in the yard.

Commenting on the new machine, Kenny Smith, Managing Director of Lowmac's said: "The A 914 has already proven itself capable of combining high levels of productivity with excellent levels of economy. We have always found our Liebherr machines offer far better fuel consumption than competitors' equivalent models and the A 914 is no exception. Its considered design and build quality was also an important factor as it enables us to provide a safe and pleasant working environment for our operatives in what are often challenging conditions."

Founded in 1973 Lowmac has grown from a general skip hire company to now managing a wide range of hazardous and non-hazardous wastes for customers which include local authorities, large PLCs and blue-chip clients from across the west of Scotland.

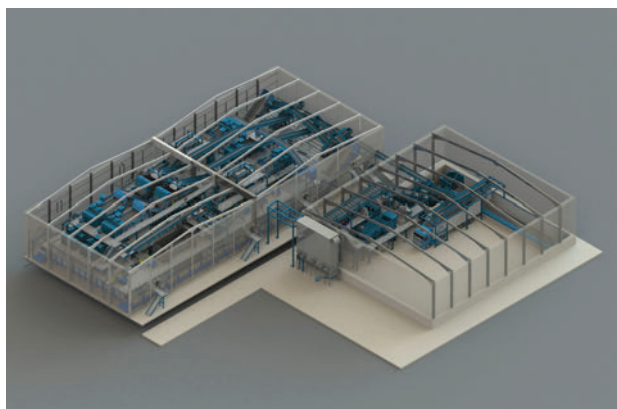
Blue deliver a 'one of a kind' automated state-of-the-art MRF



Amgen Cymru (in association with Rhondda Cynon Taf County Borough Council) recently replaced their Materials Recovery Facility, based in Llwydcoed, Aberdare.

The previous facility sorted materials mainly by hand-picking with some automated sorting by magnets and a ballistic separator. The plant feedstock material is all municipal dry mixed recycling collected at the kerbside by the local council (Rhondda Cynon Taf CBC) and Amgen Cymru were looking to build a new plant to improve their throughput and gain a better recycling recovery rate with improved purity levels.

Following detailed and rigorous procurement and testing processes Blue were awarded the contract to design and install a state of the art MRF on the footprint of the existing plant.



The plant was designed using equipment from a number of manufacturers; all conveyors and the general infrastructure provided by Westeria. Optical sorters provided by Tomra have then been mounted onto the Westeria conveyors. Six of the seven optical sorters have laser optic detection used for detecting black plastics and two of the optical sorters have EM3 sensors used for metal detection. BRT Hartner supplied the



ballistic separators and two B021 bag openers. The plant's magnets and eddy currents were supplied by Magnapower. Avelair provided both the compressed air and the dry air solutions, the latter was required to make sure a necessary dew point was held for the machines within the plant. The sorted materials at the end of the process are then baled using CK International balers.

Blue worked closely with the Client to ensure that the specialist sorting equipment selected in the overall layout and design of the facility would meet the performance criteria for the recovery of recyclates specific to the feedstock presented from kerbside collections in the area.

For example, with the seven Tomra optic sorters, they have been Blue's preference for the last 3-4 years and hold an 86% share of the UK market. The laser optic detection on two of the Tomra optic sorters are the first ones to be installed in the UK, Tomra was the only supplier that could offer this to an acceptable level.

Amgen's Operations Manager, Ian McAlister commented on the benefits they are seeing so far from the new plant: "The new MRF has a processing capacity of 18-20 tonnes per hour and around 65,000 tonnes per annum, previously we were processing around 32,000 tonnes per annum. We are now

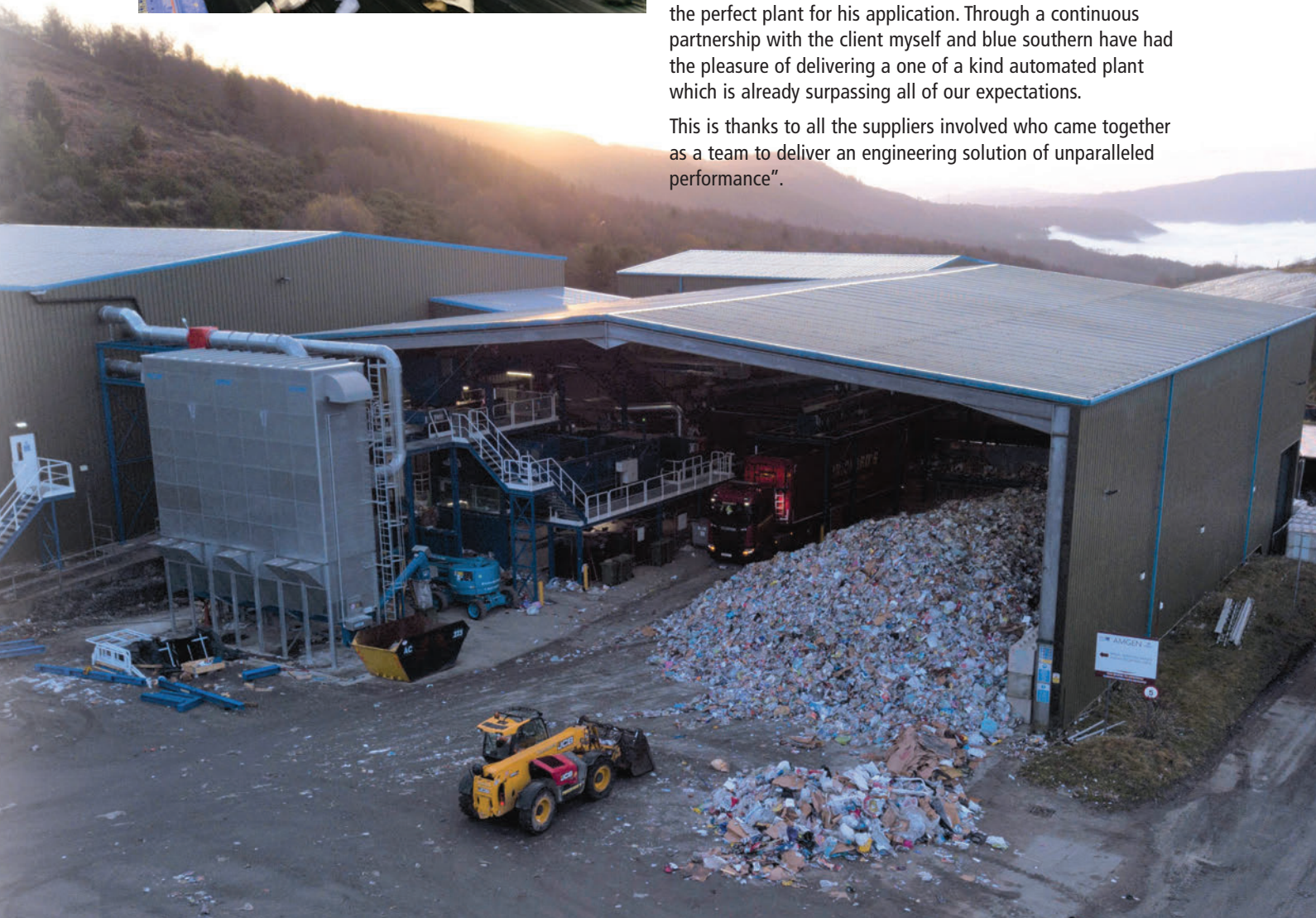


recovering a lot more recyclates than we were previously, which means we are diverting a great deal more waste from incineration. We are also very happy with the purity rates we are seeing, with the plant currently running at 97.5% purity in materials being processed”.

Going forward Amgen Cymru should benefit from being able to sell the sorted material at a higher price, due to the purity levels being offered by the plant. As the plant also offers a lot higher throughput, it allows them to bring a lot more material in and move on more sorted materials.

Tom Rutherford, Project and Applications Manager at Blue Southern, adds his thoughts on the project with Amgen Cymru: “ It has been a pleasure to work with Ian McAlister of Amgen on this project with his relentless drive and passion for the perfect plant for his application. Through a continuous partnership with the client myself and blue southern have had the pleasure of delivering a one of a kind automated plant which is already surpassing all of our expectations.

This is thanks to all the suppliers involved who came together as a team to deliver an engineering solution of unparalleled performance”.





CONEXPO-CON/AGG 2020: How to Future-Proof Your Business



**CONEXPO-CON/AGG
2020, the largest trade
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**million square feet of equipment and technology
will be on display in Las Vegas, Nevada from
March 10-14.**

The expanded footprint this year connects the Las Vegas Convention Center with the Las Vegas Festival Grounds, giving attendees ten different areas to explore the latest equipment directly from the manufacturers and suppliers, as well as the latest product innovations and knowledge resources to help your business grow.

Attending CONEXPO-CON/AGG is an excellent way to future-proof your business. By learning not only what's new in the industry, but how new ideas and technology are likely to be implemented, you can be ready for every opportunity that can approach your organization, and create new opportunities of your own by relaying the information on new ideas to your clients.





If implementing automated grade control can speed up your project delivery, or drone imaging can open up new creative avenues, or 3D printing can create entirely new opportunities, your project proposals are likely to get more attention. If you can learn about all the newest opportunities and ideas in one spot from people who understand your business, like you can at CONEXPO-CON/AGG, you can dramatically speed up that timeline.

Best of all, you have the opportunity to talk with your peers, and meet and share stories with others in your industry from around the world. There's no better way to learn about new product features or understand the latest benefits than from other contractors who work in your same field and know exactly what your challenges and opportunities might be.

"With all of the opportunities for the global construction industry in 2020, there has hardly been a more important time to experience and understand the latest technology at CONEXPO-CON/AGG 2020," said Dana Wuesthoff, Show Director for CONEXPO-CON/AGG. "With the global construction and materials handling businesses looking to continue expansion, and a growing demand for automated solutions, seeing what's out there in person, and in a way that better facilitates deeper understanding, is crucial to continued business success."

CONEXPO-CON/AGG's comprehensive education program is the leading source for contractors, business owners, construction material producers, and end-users to obtain cutting-edge information for today's economy and business models. Education is grouped into ten tracks to help attendees find just the right topics that meet their needs.

Areas include aggregates, asphalt, concrete, cranes, rigging and aerial lifts, earthmoving and site development, equipment management and maintenance, business best practices, safety, technology solutions, and recruiting talent.



Returning for its second year is the award-winning CONEXPO-CON/AGG Tech Experience, featuring technology for modern mobility, sustainability and smart cities. Whether creating transportation systems that move products and people to meet tomorrow's demands, designing buildings and cities with social, economic, and environmental impact in mind, or creating urban areas incorporating electronic data to efficiently manage assets and resources, The Tech Experience has a lot for everyone to learn.

That includes a competition called "The Future Cities Contest: The Next Generation of Cities," and a discussion of trends in Liquid Cities (like Seattle), Crystal Cities (like Chicago and Miami) and Gas Cities (like London and Paris). The Tech Experience also features presentations including a "Crash Course on 3D Printing of Concrete Structures," "Gadgets in Construction" and "Using Technology to Engage the Next Generation Workforce and Create New Jobs."





Workforce development is a major focus at CONEXPO-CON/AGG 2020, where a dedicated Workforce Solutions Area debuts this year. The Workforce Solutions Area will serve as a demonstration space to showcase best practices for recruitment into manufacturing and the trades. Showcasing tools and strategies to generate hands-on engagement for attendees' recruitment arsenal, the Workforce Solutions Area aims to spread ideas that contractors and manufacturers can bring home to promote careers at their shop and our industry.

"There is a fantastic workforce development trailer with seventeen trade skills demonstrated that AGC Arkansas will be showcasing," said Julie Davis, Workforce Development Director for AEM. "They believe that it is the absolute best recruitment and industry-perception influencing thing they have done in their state, and it's targeted on building a youth workforce pipeline."

While you're there, make sure to see the International Fluid Power Exposition (IFPE), especially during the IFPE Fluid Power Hour, presented by Bosch Rexroth, running Wednesday, March 11, from 4 until 6 p.m., the first-ever cocktail networking reception for engineers and decision-makers on the show floor. IFPE has all the latest technology in the hydraulic and pneumatic spaces that make construction equipment work, and work better.

"This is something we're very excited about," said IFPE show director John Rozum. "Fluid power is what allows equipment to bring the landscape-shaping ideas people have to reality. Getting more people engaged with the latest technology in hydraulics and pneumatics is going to allow more people to bring more amazing ideas to life."

While you're waiting for your plane to Vegas to take off, make



sure to check out the CONEXPO-CON/AGG Radio podcast Contractor Conversations, available on iTunes, Stitcher, Spotify, and all the other major podcast spots. Hosted by Missy Scherber, get a contractor's-eye perspective on everything from implementing new technologies on the jobsite, to recruiting new team members, strategies for equipment maintenance, solving supply chain hurdles, and more!

Coming in mid-February, the CONEXPO-CON/AGG mobile app will become available on the Apple App Store and Google Play. The CONEXPO-CON/AGG app will have the most up-to-date maps, and will help you plan your show experience so you can make sure to see everything you came for!

It's never been more important for industry professionals to focus on what the future may bring by attending trade shows, conferences and other education opportunities. CONEXPO-CON/AGG 2020 will help you more effectively navigate today and prepare for tomorrow.

For more information and to register, visit www.conexpoconagg.com.

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Roco introduce themselves to the US market at CONEXPO

Roco is the new family owned brand name centrally located in the home of crushing and screening manufacturing in Ireland. The foundations for this business dates as far back to 1978 when Paddy Connolly formed Ballytrain Plant, which primarily bought and sold used quarry equipment locally then later expanding to overseas sales.

The success of Ballytrain over the last 40+ years, together with the operating of several family owned quarries in Ireland, has now directly led to the formation of Roco. Using their hands-on approach along with their quarrying knowledge to create the first of their own branded machines. Paddy's son Shane has worked directly alongside his father from an early age and he is the main driving force behind Roco. Like his father Shane shares a tremendous passion for this industry that is rarely seen in larger organisations. Paddy and Shane together have researched the industry to identify niche market opportunities where Roco can become the brand of choice for the general contractor and quarrying market sector.

To help Roco expand they have recruited the highly respected and trustworthy Hubert Watson who himself needs no introduction to crushing and screening. Hubert has worked almost 40 years himself with major brands such as Powerscreen, Finlay and Pegson, before establishing Fintec which he later sold to Sandvik.



L:R – Shane Connolly & Hubert Watson

Shane commented, "I am excited to have Hubert onboard to help myself and all the team expand our business globally. Hubert's undeniable experience along with an infectious passion and knowledge in this industry is something we couldn't overlook. I jumped at the chance in recruiting Hubert and we are just thrilled to have him onboard"

Hubert replied, "I am delighted to come out of retirement to help Shane and his team at Roco. The big factor for me is his hunger to succeed in what is a very competitive industry and he reminds me of myself when I started out all those years ago with Powerscreen in 1982."

Another big step forward for Roco was the appointment of Retec under the management of Iain and Ronan Herity as their first dealer based in London. Like Hubert, Iain's name



L:R – Ronan Herity & Iain Herity

and reputation is synonymous with great achievements within the crushing and screening industry dating back to the late 1980's when Iain was hugely instrumental in Extec's success.

The mobile crushing and screening industry have historically seen its greatest growth when driven by passionate entrepreneurs who are fully focused 24/7 on their customers, dealer network and aftermarket support.



Roco will make its first introduction to the US market next month at the Conexpo in Las Vegas. Shane and Hubert will both be present at Conexpo to make themselves available to talk to potential new dealers and share their vision for Roco. Later in June this year Roco will launch two new innovative and exciting products at the Hillhead show in the UK to compliment their current product offering.





Dernaseer increase sand production at Brighton Wharf

Dernaseer have recently installed a DWP252 dual sand plant at Cemex Brighton Wharf which is an important landing point for marine aggregates in the South coast. Due to an increased demand for concrete and aggregates in the Portslade, Brighton and East Sussex area Cemex decided to replace their existing sand processing equipment and for the first time turned to Dernaseer to provide a solution which has resulted in a 30% increase in sand production at the plant. The turnkey project carried out by Dernaseer's own engineers involved the removal of the old plant and installation of the new DWP252 within the existing structure.

The DWP252 is the largest in the DWP range of modular cyclone sand processing unit and incorporates a couple of Linatex rubber-lined slurry pumps, twin sump tanks, dual rubber-lined hydro cyclones and a pair of high capacity dewatering screens which maximise the production of in-spec sand. The plant is designed to provide wear protection at all critical locations in the process.

Based in Dungannon, Co. Tyrone, Dernaseer specialise in the design and manufacture of washing plants and screening equipment for the sand & gravel, quarry and recycling industries. In business since 1988 the company has extensive



experience in providing the correct solution for washing and offers everything from a complete turnkey washing plant to any component from its range of washing equipment including screens, cyclone sand treatment plants, log washers, bucketwheel sand washers and water treatment plants.

The company are delighted to be exhibiting at the upcoming ConExpo / ConAgg in Las Vegas from March 10-14th (Bronze Hall — B92323) where they will be building on their recent expansion into the North American market with wet processing plants supplied during the past year to customers in Michigan, New York, Texas and Alabama.

For more information on Dernaseer or to arrange a meeting at ConExpo please email info@dernaseerwashing.com or call +44 (0)78 098 64869

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Come and see the one and only Terex Trucks:
CONEXPO, Las Vegas, Nevada.
March 10-14, 2020, Festival Grounds – F3432
TerexTrucks.com



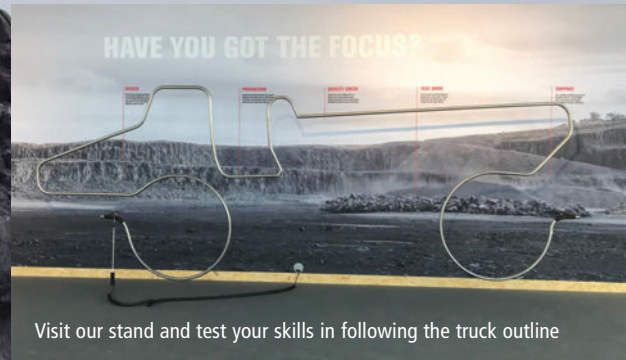
Terex Trucks to showcase TA300 and TA400 at CONEXPO



Articulated hauler specialist Terex Trucks is bringing both the TA300 and TA400 to CONEXPO, North America's largest construction trade show. As part of the Volvo family, the company will be sharing a booth in Las Vegas with other Volvo Group brands including Volvo Construction Equipment, Volvo Trucks and SDLG.



With almost 70 years' experience developing and building robust and reliable off-highway haulers that maximise productivity and return on investment for customers, Terex Trucks is ready to show visitors at CONEXPO that they are the dump truck experts. Visitors to the company's F3432 booth will have the chance to take a closer look at both the TA300 and TA400 articulated haulers and discover the significant investments and improvements that have been made in the products, facilities, people and processes since Terex Trucks was acquired by Volvo Construction Equipment (Volvo CE) in 2015. From March 10th – March 14th, the team will be on hand to discuss everything from how Terex Trucks haulers



the buzzer game, with daily prizes for the fastest time on the buzzer! "CONEXPO is a showcase of virtually every machine in the industry – but for Terex Trucks, it's all about the articulated hauler," concludes Paul. "The articulated hauler is the only product Terex Trucks develops – so we're able to focus all our attention on this machine."

Hauler highlights

In North America, the TA300 and TA400 are sold with a three-year warranty, telematics and planned maintenance included as standard – and there are competitive finance packages available for lease and wholesale. One example of the recent improvements Terex Trucks has made is the product upgrade on the TA300. Since the beginning of last year, the TA300 has been manufactured with a new transmission, leading to improvements in fuel efficiency, performance, productivity and operator comfort, when compared to the previous model working in the same application. The 28-tonne (30-ton) workhorse delivers a 5% improvement in fuel efficiency, a 5 km/h (3.1 mph) increase in speed to 55 km/h (34 mph) and an increase in the length of time between oil maintenance intervals from 1,000 to 4,000 hours. In addition, the machine now comes with eight forward gears as well as four reverse gears, to help ensure smoother gear shifting and thereby higher levels of operator comfort. All of this means that customers can be more productive, achieving faster cycle times, lower cost per tonne and reduced carbon emissions.

The TA300 is also equipped with true independent front suspension as standard, further enhancing operator comfort and enabling excellent traction control and maximum productivity in the most challenging conditions.

The TA400, the largest articulated hauler on offer from Terex Trucks, has a maximum payload of 38 tonnes (41.9 tons) and a heaped capacity of 23.3 m³ (30.3 yd³). Powered by a high performance, fuel efficient engine that develops a gross power of 331 kW (444 hp), the TA400 is designed to meet the demands of the most extreme operations such as quarries, mines and large-scale construction projects. The planetary gear transmission provides smooth, efficient gear shifting for optimized fuel consumption and reduced cost of operation. Ground level test points and a fully tilting cab, combined with an electronically raised hood, ensure ease of service and maximum uptime.

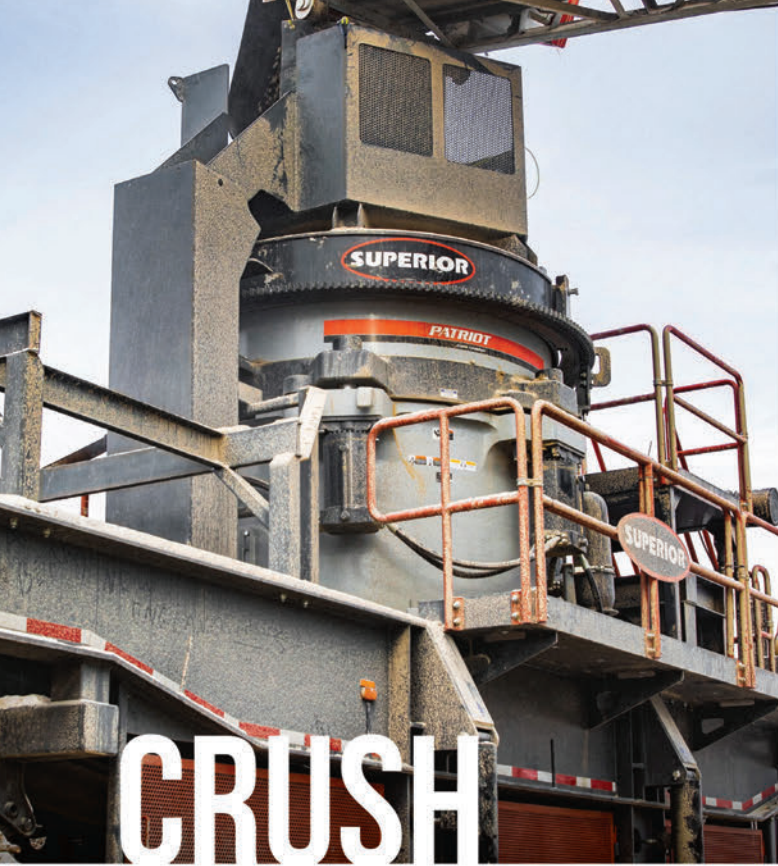
deliver low total cost of ownership, to expansion plans, current and future product investments and why North America is a strong market for the company.

We've got dump trucks in our DNA

"North America has always been a strong market for us, so we're looking forward to meeting current and future customers from the region, as well as further afield, at CONEXPO," says Paul Douglas, Managing Director of Terex Trucks. "A significant proportion of the machines we make at our Motherwell facility in Scotland are distributed to customers across North America. As a company, we want to grow our business in North America, reaching new customers and working with our expanding strong dealer network in the region – which currently stands at 40 dealers – to deliver an even better service. We are the experts in articulated haulers and we're the right company to invest in due to the reliability, durability and low total cost of ownership of our haulers. There has never been a better time to invest in a Terex Trucks hauler – make sure you stop by our booth to find out more!"

A closer look at the TA300 and TA400 is not all that the Terex Trucks booth is offering, there will be a giant Jenga and beat





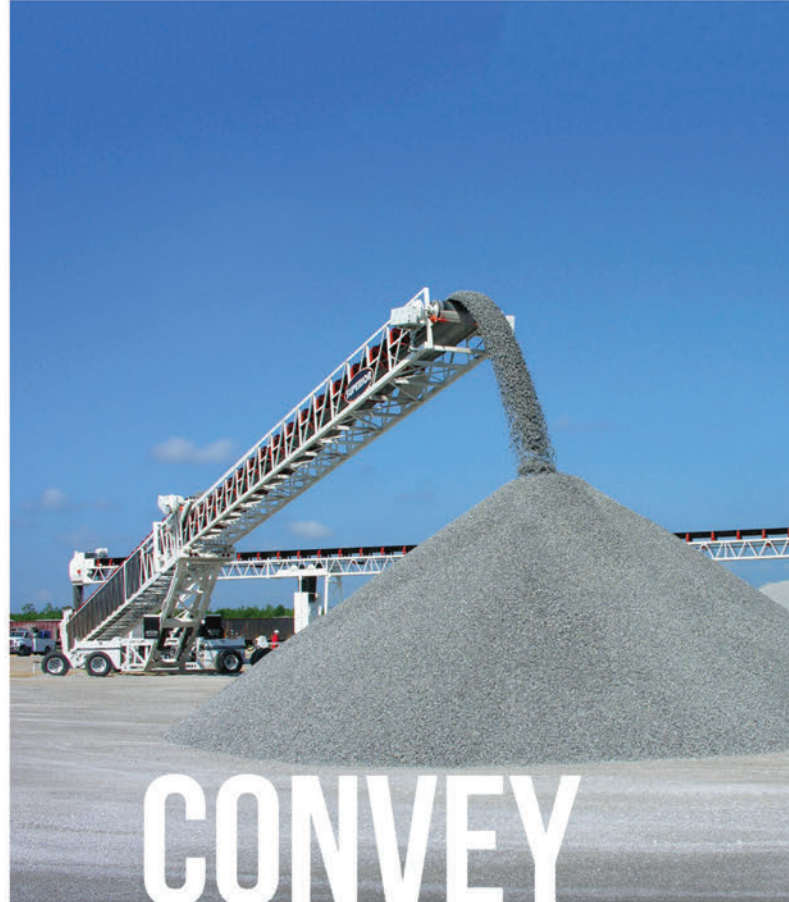
CRUSH



SCREEN



WASH



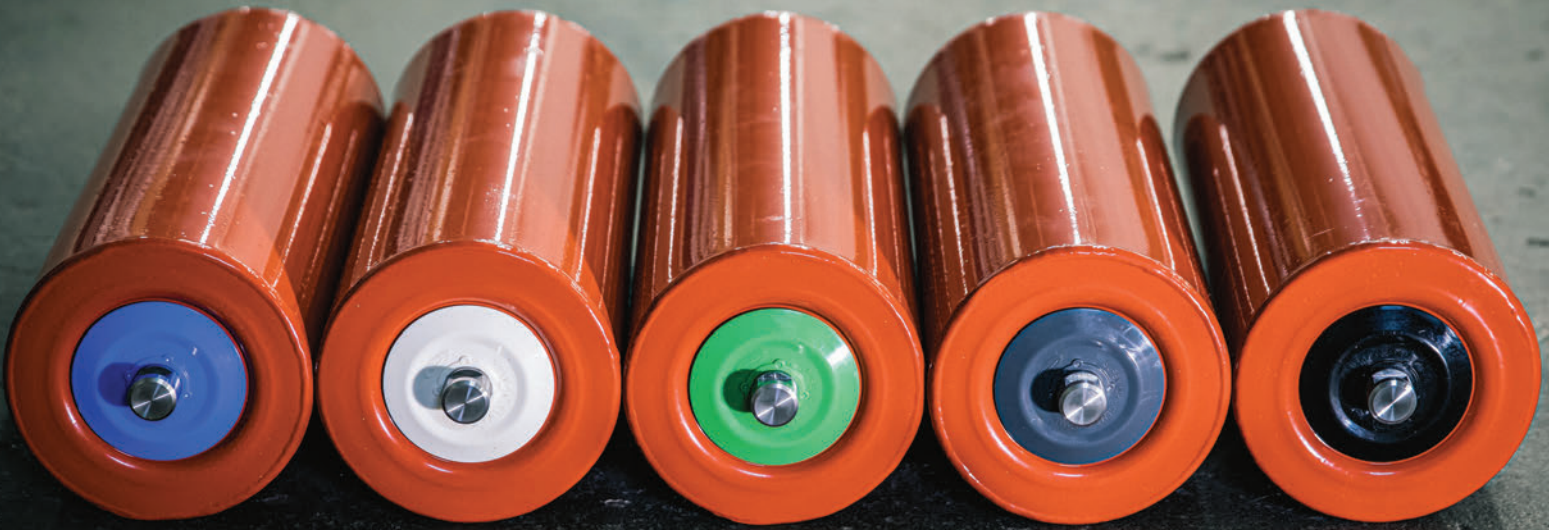
CONVEY



Superior Industries designs and builds a diverse group of bulk processing and handling solutions from Rock Face to Load Out®. Crushing, screening, washing and conveying equipment, plus all wears and spares, industry-leading warranty protection and world-class customer service. We're ready to help lower your cost per tonne!



superior-ind.com



Brand new application specific seals will extend conveyor life in unique operating conditions

Superior Industries, Inc., a U.S. based manufacturer and global supplier of bulk material processing and handling systems, will revolutionize the conveyor idler market when it introduces a group of application-specific idler seals at CONEXPO-CON/AGG 2020. They're one of a dozen new products the company will introduce in booth C31389.

"These next-generation SpinGuard® Idler Seals will offer greater protection in applications known to expose bearings to fugitive material prematurely," says Paul Schmidgall, the chief engineer of Superior's conveyor components division. "We tested dozens of seal iterations over more than five years of and we think we have some pretty robust options."

Superior says it now offers four application-specific conveyor idler seals:

- SpinGuard Wet Seal: Applications experiencing unsatisfactory idler life due to high moisture. Common conditions include wet processing, frequent washdowns and dredging.
- SpinGuard Dry Seal: Operations that produce dust near crushing or screening equipment.
- SpinGuard Low Drag Seal: For conveyor owners concerned about horsepower. Eco-friendly idlers designed with low drag seal for overland or long distance conveying.
- SpinGuard Titanium™ Seal: For the most extreme conditions including wet and slurry applications.

Each class of seal will be easily recognized by a unique color: Wet Seals are blue, Dry are ivory, Low Drag are green and the Titanium Seal is silver. Superior says lead times for these application-specific idler seals can be equal to their day-to-day, industry-leading production response times.

Superior Industries at CONEXPO-CON/AGG 2020

Superior will launch a dozen new products for crushing, screening, washing and conveying applications. Displayed equipment will include the brand new Sentry™ Horizontal Shaft Impact (HSI) crusher, Fusion™ Modular Platform, belt drive Valor® Vertical Shaft Impact (VSI) crusher, bolted model Liberty® Jaw Crusher, Alliance® Low Water Washer and Portable Spirit® Wash Plant. Additional equipment with new features include the Anthem® Inclined Screen, gear drive Valor® Vertical Shaft Impact (VSI) crusher, P500 Patriot® Cone Crusher, Aggredry® Dewatering Washer and TeleStacker® Conveyor. Additionally, aftermarket solutions including new conveyor idlers, pulleys and accessories, plus crushing rotors, cone bushings, cone heads and jaw dies will be displayed alongside a multimedia experience showcasing several turnkey projects completed by the company's construction management division. See Superior inside Central Hall at booth C31389 and start with the ones who change the game.



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INNOVATIVE TRACK-MOUNTED MIXING TECHNOLOGY

The Rapid Trakmix is a track-mounted mobile continuous concrete mixing plant/ pugmill. Trakmix is totally mobile, self-contained, fully weighed and outputs high volumes of up to 250 TPH. The machine has been specifically designed for applications where all types of binders or neutralising powders are required in the mixing process, including road construction, road paving, ground works/civil engineering, environmental stabilisation projects, aggregate recycling and many more.

FEATURES

- The **ONLY** tracked concrete mixing plant available in the market
- Up to 250TPH output
- Minimal site set-up
- Ultimate mobile flexibility (remote controlled tracked unit)
- Self-contained with on-board genset (Tier IV available)
- Superior controls system weighing **ALL** materials (patent pending)
- Compact design both in transport and set-up modes

rapid

MIXING TECHNOLOGY EXPERTS SINCE 1969



Rapid exhibit at CONEXPO 2020 marking their 9th appearance at the show

Rapid International will once again exhibit at CONEXPO 2020. This will mark the company's 9th appearance at the international exhibition which takes place every three years at the Las Vegas Convention Centre. Rapid will exhibit at stand number B7201 (Bronze Lot) on 10-14 March.

US Sales network restructure - dealer opportunities available.

Following the 2019 retirement of Rapid's long term sales partners, Dennis Bauer and David Thaden of Rapid International USA, INC, Rapid's sales network has been restructured, building on the partnership's outstanding work. The restructure has further strengthened the sales, in-market technical support and spare parts networks. Rapid has been operating in the USA, Canada and Central America for nearly 25 years and is a market leader in mobile continuous mixing technology for concrete, construction and environmental sectors. "Restructuring our already thriving sales network provides us with the opportunity to offer a more streamlined service, while continuing to expand our market share across the regions.", says Mr Jarlath Gilmore, Rapid Sales & Marketing Director.

Rapid will exhibit innovative Trakmix, track-mounted mobile continuous mixing plant.

At CONEXPO 2020, delegates will have the opportunity to see the innovative Trakmix, track-mounted, mobile continuous

mixing plant. Trakmix offers an entirely self-contained design mounted on tracks including an on-board genset, providing the ultimate in fast, mobile flexibility.

Trakmix is the first track-mounted mixing plant of its kind to market. Patent pending features include a superior controls system that weighs all materials and double hopper cement weighing system.

Popular with both civil engineering and road contractors alike, Trakmix is ideal for semi dry mixing applications such as RCC (Roller Compacted Concrete), CTB (Cement Treated Base), soil stabilisation, soil cement, bentonite, marine dredging, mine backfill and many more.

First Rapidmix still operational today, 23 years later.

As a long standing exhibitor, Rapid's first CONEXPO appearance was 23 years ago in 1993. The very first Rapidmix continuous mixing plant was later sold to the US market in 1996 and is in fact still operational today in Florida, 23 years later. This is testament to Rapid's commitment to manufacture machinery that's built to last.

For advice on how to tailor the very best mixing technology to your unique application please visit Rapid's stand where company representatives will be readily available to assist.

Visit Rapid International Ltd at stand B7201 (Bronze Lot) at CONEXPO on 10-14 March 2020.



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50 | **UNITED**
years | by success



Altogether, Liebherr's products will fill more than 53,000 ft² (4,900 m²).

Liebherr to celebrate 50th anniversary in USA and to exhibit extensive range of latest construction machine products at Conexpo Con/Agg 2020

- About 30 types construction machines will be featured at North America's largest construction machinery trade show
- New to market excavators, cranes and intelligent assistance systems will debut at Conexpo 2020
- Find Liebherr in the Festival lot at booth #F5258 and in South Hall of Las Vegas Convention Center at booth #84321



The L 566 XPower® presented at the Conexpo 2020 is equipped with numerous new assistance systems and the new joystick steering system for Liebherr wheel loaders.

From an earnest start in Virginia in 1970, Liebherr has built its USA business on a foundation of trust, innovation and engagement with customers. Five decades later, the company's incredible growth, diversity and stability is tangible evidence of how Liebherr employees are united by success as the company continually moves toward new achievements. Each decade in business and each customer served has positioned Liebherr in a leadership role in multiple industries, such as petrochemical, transportation, aerospace, construction, earthmoving and mining.

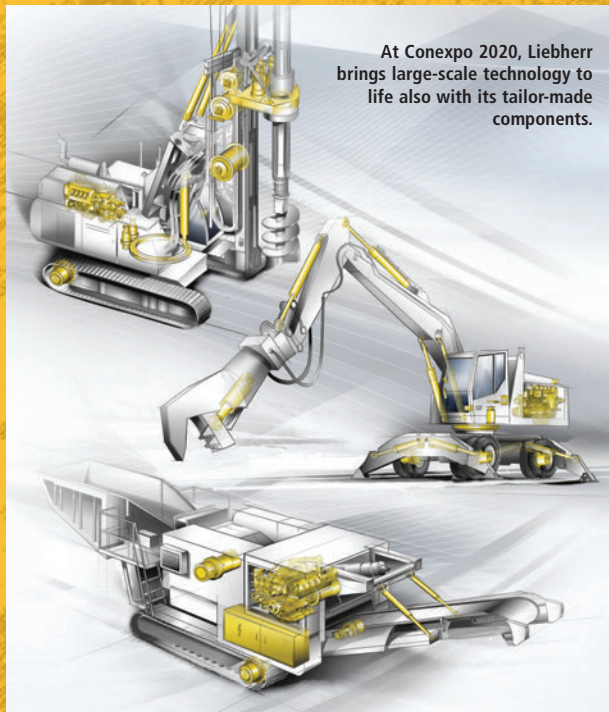
From March 10-14, 2020, Liebherr's innovative products will be on display at Conexpo-Con/Agg 2020. Liebherr is showcasing an extensive selection of earthmoving and construction equipment at its outdoor booth #F5258 at the Festival Grounds. The company's product range of components for mechanical, hydraulic and electric drive systems will also be on display in the south hall of the Las Vegas Convention Center at booth #S84321.

Altogether, Liebherr's products will fill more than 53,000 ft² (4,900 m²), providing room for hydraulic excavators, wheel loaders, crawler loaders and tractors, deep foundation machines, material handlers, tower cranes, mobile and crawler cranes, as well as a concrete pump. Here are details about some of the show's featured products:

A US premier: The new generation of Liebherr crawler excavators

The Generation 8 crawler excavator series is made up of seven models ranging from 48,500 to 99,200 lb (22 to 45 t): R 922, R 924, R 926, R 930, R 934, R 938 and R 945. Two machines of the product range, R 926 and R 938, will be exhibited for the first time in America at the Liebherr booth.

The highlights of the new crawler excavator generation include higher engine power, a heavier counterweight for higher bucket capacities, and minimal fuel consumption. A new equipment concept with a modified piece at the top of the boom is an innovative new feature. This leads to better performance and equipment forces with reduced operating weight of the machine. Another feature is the optimized load curve, which yields reduced fuel consumption. These machines



At Conexpo 2020, Liebherr brings large-scale technology to life also with its tailor-made components.

have been specially designed to provide extra comfort and safety for the operator, as well as optimum ergonomics and performance on the job site.

North American premiere: New assistance systems for wheel loaders

Liebherr will present four-wheel loaders at the show. This includes an L 566 XPower® with power-split travel drive. Liebherr installs this drive as standard on its large XPower® wheel loaders. It combines short loading cycles with optimal hydrostatic drive with the mechanical drive, the benefits of which come into effect over long distances and up hills.

The L 566 XPower® is also equipped with numerous new assistance systems, which Liebherr is showing for the first time in North America at the exhibition. These include active personnel detection, adaptive working lighting, an integrated tire pressure monitoring system and the weighing system with Truck Payload Assist. The L 566 XPower® also has the new joystick steering for wheel loaders.

The largest Liebherr wheel loader, the 71,870 lb (32,6 t) L 586 XPower®, will also be at the exhibition stand. With a power split XPower® drive, it delivers high performance and enormous fuel savings. The L 538 represents the Liebherr medium-sized wheel loader range. It is equipped with parallel kinematics for high holding forces in the upper lift arms area. It is ideal for working in heavy-duty industrial applications such as in recycling with high dump buckets. For customers from countries in Central and South America, Liebherr is showing the L 550 wheel loader. It is a representative of the separate wheel loader series for less emission-regulated markets.

Bringing large-scale technology to life with tailor-made components

Construction machines are exposed to high dynamic loads and use corresponding high pressures. Under these conditions,

The Liebherr A 920 Litronic wheeled excavator is characterized by high mobility, flexibility and versatility.



Liebherr's robust hydraulic pumps and motors guarantee a long service life. Liebherr is presenting the hydraulic double motor DMVA D 165-165, the hydraulic pump DPVG 140 as well as size 85 of the series 20 of the LH30VO medium pressure pump. The latter pump can be used to power, for example, the equipment, ventilation systems or steering of the machines.

Among the latest development is also the in-line diesel engine D976, Liebherr's biggest and most powerful in-line engine with a displacement of 1,098 in³ and a power range from 469 to 843 hp (350 to 620 kW) in its standard version.

An upgraded bearings portfolio is being introduced this year, with the super-size seamless slewing bearings of up to 31,17 ft helps to convey and rotate enormous loads. Last but not least, the new planetary gearbox series on display features high power density, minimal weight and reduced installation space and is ideal for use in lifting and driving applications, or as a drive for undercarriages and crawler vehicles.

Power, strength and precision: the Liebherr A 920 Litronic wheeled excavator

The Liebherr A 920 Litronic wheeled excavator on exhibit at the show has an operating weight of 40,300 - 47,000 lb (18.3 - 21.3 t) and an engine output of 129 kW / 175 hp. The powerful Liebherr wheeled excavator is particularly suitable for road, canal and pipeline construction as well as for classic earthmoving work and is characterized by high mobility and



The LH 30 M Industry Litronic impresses with its versatility and demonstrates maximum handling capacity in all applications.



The R 926 will be exhibited in America for the first time.



versatility. The strong undercarriage as well as the outriggers at the rear and front ensure maximum stability and safety every time the machine is used. This enables the A 920 Litronic to carry out all work reliably, precisely and extremely productively, even under full load.

Redefined Performance: The Liebherr material handler LH 30 M Industry Litronic

The powerful LH 30 M Industry Litronic, with an operating weight between 58,400 and 65,00 lb (26.5 - 29.1 t), is versatile and can operate at its maximum handling capacity in all applications. Thanks to the optimally designed engine power of 140 kW / 190 hp, high torque is available to the system for powerful and fast movements. The separate hydraulic pump in the closed slewing circuit only supplies hydraulic fluid to the swing mechanism. The maximum delivery volume is therefore always available for swiveling the uppercarriage, thus making possible fast and overlapping movements. The generously dimensioned cooler with large meshes also guarantees excellent cooling at full power of the machine, thus ensuring high machine availability.

Quality in every detail: The Liebherr material handler LH 60 M Industry Litronic

With an operating weight between 121,300 and 134,500 lb (55 - 61 t), the LH 60 M Industry Litronic is designed for heavy-duty scrap handling. The hydraulic cab elevation, as well as rear and

side area monitoring systems, allows an optimal view of the working area and the surrounding area of the machine at all times. The perfect overview gives the driver a feeling of security and ensures safe handling of the machine at all times. The foldable left arm console, as well as wide, non-slip steps, walkways and platforms, ensure easy, comfortable and safe entry and at the same time guarantee access to all maintenance points. Equipment such as cab protective grid, impact-resistant laminated safety glass and piston rod protection for cylinders are specially developed for the tough use in scrap handling and also guarantee maximum reliability in the toughest conditions.

Staying connected at Conexpo

To experience all Liebherr has to offer before, during and after Conexpo, the company will again offer a free digital app. Through the app, visitors can view the latest show-related news and events, detailed information about our exhibits and product information. The app is available for Apple and Android users. Our micro website, Liebherr.com/Conexpo will also offer up to date and detailed information about the show. And look for customer stories and images that highlight how Liebherr equipment is bringing high profile projects to life in our Conexpo 2020 magazine, which will be available in print and digital editions.

A milestone for the next 50 years - our new USA headquarters

Liebherr is reaching another milestone in 2020 – the opening of an expanded headquarters in Newport News, Virginia. The new facilities will add space that will support employees in sales, service and product support and are evidence of our long-term commitment to the US market. Liebherr's employees – about 1,400 in the US more than 46,000 worldwide, are at the heart of our success and innovation. With an added 251,000 square feet of space, Liebherr USA, Co. will be positioned to serve customers for the next 50 years.

The LH 60 M Industry Litronic is specially designed for heavy-duty scrap handling.





Terex Finlay will display three machines from their crushing, screening and conveying range at Conexpo 2020

The three machines that will be on display at the show are: I-120RS impact crusher, 883+ (triple shaft) heavy duty screener and TF-75L low level feeder. Visitors will also be able to get demonstrations of our latest virtual reality technology on the booth.

I-120RS impact crusher:

The Terex Finlay I-120RS shapes the future through innovation. This new generation impact crusher with redefined style and advanced technological design gives improved material flow and production capabilities in quarrying, mining, demolition and recycling applications. Incorporating the Terex® CR038 impact chamber with direct drive and advanced electronic control system the machine provides operators with high material reduction ratios and produces a consistent product shape.

A key component of the machine is the on-board innovative quick detach 3.66m x 1.53m (12' x 5') two deck screen. For applications not requiring re-circulation of materials for further processing or stockpiling the complete screening and recirculating system can be quickly detached from the machine. The high productivity, ease of maintenance and operation makes the machine an ideal solution for large scale producers and contract crushing operators.



Terex Finlay I-120RS (concrete recycling)

883+ triple shaft screener:

The Terex Finlay 883+ (triple shaft) mobile heavy duty screener features a triple shaft screenbox that is ideal for working in dry and sticky applications including quarry,



Terex Finlay I-120RS (asphalt recycling)



mining, sand, gravel, construction and demolition debris and recycling applications. The triple-shaft design of this new screenbox employs an oval motion stroke to generate an aggressive screening action, reducing plugging and blinding over the screen decks to ultimately provide a quality product with high tonnage output.

TF-75L low level feeder:

The Terex Finlay TF-75L low level feeder has been designed to maximize productivity, enhance efficiency and reduce on site operational costs in a wide range of applications and feed material types. The large 7m³ (9.2yds³) hopper with a feed in height of 1900mm and width of 3500mm enables low level feeding directly from excavators, grab cranes, and wheel loaders. For on-site safety and quick set the hopper is fitted as standard with hydraulically folding sides.

Depending on the application there a number of grid and hopper extension options and for particularly abrasive materials a steel apron feeder option is also available. Tracked mobility and the ability to feed material from all three sides enable the TF-75L to be easily incorporated into open and closed-circuit static and mobile crushing and screening circuits.

"Our business has been built upon the core values and beliefs of delivering dynamic and innovative world class leading products that our customers can depend upon. We look forward with excitement to Conexpo, 2020 and encourage visitors to the show to call by the Terex booth, see these machines for themselves and enjoy our immersive virtual reality demonstrations" Commented Paul O'Donnell, Terex Finlay Global Business Line Director.

Terex Finlay 883+ (Triple shaft) heavy duty screen



Liebherr telescopic handlers - robust and reliable.



Outstanding lifting power and excellent manoeuvrability.

- Market-leading Comfort cab with 360-degree vision for optimal safety and productivity
- Available with 'auto power' for enhanced loading cycles and excellent efficiency
- Continuously variable hydrostatic drive system provides maximum tractive force
- Quick couplers available for compatibility with other manufacturers' systems
- Models available: T 35-6, T 32-7, T 36-7, T 41-7, T 46-7, T 55-7, T 60-9, T 33-10
- An excellent all-rounder machine tailored to you specific application requirements

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Bedfordshire, SG18 8QB. www.liebherr.com

LIEBHERR



Sandvik Mining and Rock Technology showcases next generation equipment and services at CONEXPO-CON/AGG

Sandvik Mining and Rock Technology will showcase several innovative solutions at CONEXPO-CON/AGG, which takes place in Las Vegas, USA, 10-14 March 2020. The focus is, as always, on new technologies and methods supporting customers to improve their safety, productivity and sustainability even further.

UJ440i mobile jaw crusher

Sandvik UJ440i is an intelligent, fuel-efficient and user-friendly mobile jaw crusher. It is a high-quality, robust and reliable unit that has proved itself capable of working throughout the world in all climate conditions. Customer benefits include trouble-free operation thanks to the mobile jaw crusher's onboard integrated 'intelligence' system. This allows for simplicity of operation, as the UJ440i is continuously and automatically monitored by the control system that operates the unit, enabling full optimisation of production. Designed on a fully tracked chassis and operated via radio remote control, the UJ440i is fitted with the Sandvik CJ412 jaw 1200 x 830 mm / 47 x 33", which offers great size reduction and consistent production, thereby maximising uptime and more efficient operation. Specifically suited to aggregate production and mining applications, the model is very versatile and can be offered in three different variants to suit the customer's specific application.

Modular hanging screen

Also on display from Sandvik's mobile crushing and screening offering is the revolutionary modular double deck hanging screen, which connects to Sandvik QH332, QS332 and QI442 tracked crushers. Unique benefits of the screen include its ability to be quickly adapted for operation in open or closed circuit configurations, a patent pending adjustment system that allows the screen to be quickly reconfigured to recirculate and produce a single sized finished product or two-sized finished product. The complete module, including screen measuring 3.5 x 1.4 m / 12' x 5", can be installed or removed from the plant in less than 30 minutes, without the need for any on-site lifting equipment.

Sandvik CH840i cone crusher with Automation and Connectivity System (ACS)

The new Sandvik CH840i cone crusher features mechanical upgrades, connectivity, advanced automation and rebuild possibilities - predicting performance, maximizing uptime and offering the best in sustainability at the lowest possible cost. It comes with the Automation and Connectivity System (ACS) as standard, to continuously monitor and optimise crusher performance and control the complete lubrication system, increasing uptime and reliability. Connected to My Sandvik, Sandvik 800i crushers enable managers and operators to make fact-based decisions and directly identify areas for improvement, increasing uptime and availability.

Sandvik SJ2463 model - circular motion screen

Sandvik's new SJ circular motion screen range is specially designed for extra heavy-duty, medium and fine screening applications. This inclined screen range is ideal for screening after primary and secondary crushing, as a splitter screen to divide flows within a plant and for final screening of a finished fraction. With a wide variety of options and adjustability, the new screening range can be optimised to each application.

Visitors are invited to the Sandvik booth, located at: Silver Lot 1, booth number S-5249, to view innovative products, experience our augmented reality presentation, meet members of Sandvik Mining and Rock Technology's team and dealer network and see the very latest developments firsthand.





Edge Innovate to launch two new high capacity shredders at CONEXPO 2020

EDGE HS750 - BORN TO DISRUPT THE NORM

The EDGE HS750 is a totally new concept to the shredder world. It offers operators a high capacity, horizontal slow speed shredder that combines impressive throughput, the ability to withstand difficult to shred materials and superior resistance to non-shreddables. EDGE Innovate have uniquely combined the benefits of a high torque, slow speed shredder with a horizontal positive feed delivery system which incorporates an intelligent material management and a tramp metal protection system.

A 42" (1066mm) diameter compression Top Feed Roll aids in the delivery of material to a 42" (1066mm) tip diameter solid steel downturn rotor which has been designed to absorb heavy impacts and deliver high throughput. Potential for rotor overload or material bridging is reduced via an intelligent material management system that ensures the efficient delivery of material to the chamber. Should a blockage occur; the feeder, top feed roll and rotor can be reversed via the radio remote.





FEATURES

Boasting an impressive list of design features; the EDGE HS750 is powered via a Tier 4 Final / STAGE V Caterpillar C18 engine providing 750HP (560Kw). An intuitive operating system enables operators to select from a number of customisable shredder programmes whilst also displaying hydraulic pressures, feeder speed, rotor speed, torque mode and average fuel consumption. All major functions can be controlled via radio remote ensuring that the HS750 can be operated by a single operator.

Depending on the level of contamination and type of material; operators have the added benefit of being able to select between 2 Rotor Modes with each mode having different torque levels and rotor speeds. Adjustment of finished material piece-size by means of a hydraulically retractable comb enables operators to regulate particle size without the need to change tool inserts, pattern or screen aperture.

The HS750 has been designed with serviceability in mind and incorporates a number of design features to ensure unrivalled levels of access. Rotor maintenance and a quick screen changeover procedure is facilitated via a hydraulic chamber opening and hydraulic screen release system with built in safety switches to prevent accidental start up.

Thanks to these design features; the EDGE HS750 horizontal slow speed shredder offers operators with a high productive shredding solution that is easy to maintain and is ideal for land clearance projects and the processing of wood waste, stumps, brush, railway ties, utility poles and construction and demolition waste.



EDGE VS420 - "NEXT GENERATION" SLOW SPEED SHREDDER

EDGE has taken decades of designing, manufacturing and commissioning of industrial waste shredders to create their next generation waste shredder. The EDGE VS420 is a high capacity, high torque twin shaft shredder that is ideal for the processing of a large array of materials including; green waste, MSW, C&D waste, biomass and end of life tyres.

EDGE's next generation shredder has been developed for ultimate versatility and high resistance to contaminants with a number of customisable shredding programmes and chamber configurations available. An intelligent operating system which incorporates tramp metal protection provides the ultimate security from contaminants and prevents asset damage.

FEATURES

At the heart of the VS420 are twin, 2m (6'7") long synchronised, high torque shredder shafts which can be customised to suit a customer's exact application and desired product piece size. EDGE's twin shaft design provides exceptional material intake, ensures less wear, promotes self-cleaning and prevents material wrapping even in the toughest of applications. With a range of both rapid volume reduction and intricate piece sizing chambers available, The EDGE VS420 series can be customised to be deployed as either a primary or secondary shredder.

Powered via a Caterpillar C9.3B Tier 4 Final / Stage V ACERT engine with a power rating of 310Kw (420HP). Caterpillar's SCR technology reduces engine emissions and provides a

robust and economical solution for EDGE's customers. Fuel consumption also improves by up to 9% compared to Stage IIIB engine options.

The VS420 offers operators a host of design features such as; hydraulic hopper extensions with hydraulic locking mechanisms, a large automatic tipping hopper with remote functionality, hydraulic height adjustable twin pole magnet and a "One Point" service area which makes daily maintenance checks possible from one vantage point. Thanks to the VS420 modular service orientated design, the VS420 is easily suited for tracked, wheeled or hooklift mounted chassis formats with all major components being accessible and easy to remove.

EDGE have introduced an all new control philosophy that allows the VS420 to work harder for longer. This enables the VS420 to tackle the toughest of applications with ease. The new parameter program is controlled via the latest EDGE Operating System (EOS) designed for improved user-friendly controls and gives operators greater control and larger scope for customisation. Further operator control is provided via EDGE's VS Status Lighting system which provides a quick and simple communication link between the machine and the operator. It allows the operator to know the status of the shredder, when to continue loading material, when not to load or if there is a blockage thus ensuring maximum throughput while preventing material overload.

At CONEXPO- CON/AGG; EDGE Innovate will introduce the HS70 and VS420 to the world market. For more information on EDGE's activities at CONEXPO-CON/AGG 2020 please visit their event website www.edgeinnovate-event.com.



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NON-SHREDDABLES**

VS420

VERTICAL SLOW SPEED SHREDDER

EDGE has taken decades of designing, manufacturing and commissioning of industrial waste shredders to create their next generation waste shredder. The EDGE VS420 is a **high capacity, high torque twin shaft shredder** that is ideal for the processing of a large array of materials including: green waste, MSW, C&D waste, biomass and end of life tyres.



Quarry King supply belt feed hopper to Norway

Quarry King recently launched its CBF2030 Belt Feed Hopper which provides an effective feeding and metering solution where the company's BFH25 is too big. The CBF2030 features a 12 cubic metre hopper with galvanised side extensions to allow for efficient loading by front-end shovel. The hopper-taper is lined with "Hardox" to prevent wear and a "Chinaman's hat" in the hopper eliminates bridging of the material in the hopper. Material discharge from the heavy duty 750mm wide feed belt is controlled by the adjustable hopper gate. The CBF2030 can be supplied with or without a control panel and an option is available where it is mounted on loading calls for accurate metering of material or for loading bulk bags.

Norwegian ready-mix concrete producer Olen Betong have recently installed a CBF2030 belt feed hopper along with a QK4030 conveyor at

their Aksdal operation. In conjunction with building chemicals company Mapei they are using the belt feed hopper and conveyor combo to feed additives into their concrete process.

Based in Co. Tyrone, N. Ireland Quarry King are well known suppliers of value for money material handling solutions including the QK range of wheeled, tracked and static conveyors. They also offer a range of belt feed hoppers, surge hoppers and vibrating feeders which can be checked out on their website www.qkconveyors.com

The company will be attending the upcoming ConExpo / ConAgg in Las Vegas from March 10-14th (Bronze Hall — B92323) and Martin will be available during the show to discuss any materials handling requirements that you might have.

For more information on Quarry King or to arrange to meet at ConExpo please email info@quarryking.com or call +44 (0)28 9557 5911.



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CDE to launch latest Combo™ innovation at CONEXPO-CON/AGG 2020

Cutting-edge Combo™ range boosts the bottom line. CDE Washing Works.

CDE is set to revolutionise the wet processing industry once more with the launch of the latest in its range of Combo all-in-one wet processing solutions at CONEXPO-CON/AGG in March 2020.

The patented Combo™ – the world's first all-in-one wet processing plant – was unveiled in Europe at bauma in April 2019. It was the first fully integrated, modular, patented turnkey materials wet processing and water management solution for the production of premium manufactured sands.

The latest model in the Combo™ range will have a number of soon-to-be-revealed enhanced features that have been specifically designed to enable operators in the Americas to capitalise on new opportunities.

David Kinloch, Regional Manager for CDE UK & Ireland, said: "At CDE, we are proud to deliver optimised operations for maximum yields and fast returns for our clients. Our high-performance solutions maximise resources and add huge commercial value to our customers' enterprises, with the innovative Combo™ having led the way in a new era of wet processing.

"We are looking forward to launching the latest Combo™ model at CONEXPO-CON/AGG, directly to the very market that inspired it. This next generation plant will deliver significant commercial benefits while minimising operational costs."

CDE's pioneering wet processing technologies enable greater production efficiency, increasing yield to maximise profit per tonne, delivering a rapid return on investment.

Unrivalled fines separation and greater sand dewatering ensures sand and aggregates producers maximise yields with less than 15% moisture content creating a steady stream of revenue straight off the belts to command the highest possible market price.

Boosting profitability, CDE wet processing technology, including its patented Combo™ range, benefits from significant efficiency savings.

Lower power consumption complemented by industry-leading water treatment and management allows customers almost total independence of water supply with up to 90% of process

water recycled for immediate re-use in the system - ideal for jurisdictions with limited resources or those with existing environmental or impending environmental legislation. Ensuring optimum uptime and productivity of CDE plant, enabling it to process higher volumes of feed material to accelerate return on investment.

Importantly, the Combo™ is portable and incorporates all five essential processes - feeding, sizing, sand washing, stockpiling and complete integrated water management - onto one compact and modular chassis. With a 30% reduced footprint compared to traditional setups it requires less civils expenditure and planning requirements. Customers do not need to invest in new equipment should their operations transfer to another site or remote location, and the small footprint ensures suitability for an urban market. The plant can also be positioned to produce sand closer to where concrete is required, resulting in significant cost savings in the transport of aggregates.

Kevin Vally, Director of Engineering at CDE, said: "The Combo™ is the first all-in-one materials processing system that accepts both natural sand and crushed rock feeds, giving our customers complete flexibility in the choice of the material they want to process depending on available reserves. Natural sand reserves are a finite resource and the CDE cyclone technology ensures that not one grain of valuable sand is lost to ponds. At CDE we are unlocking a New World of Resource, driving alternatives for sand production. Global demand for construction sand is more than 15 billion tonnes per year. We aim to give our clients full production flexibility through the delivery of customised and sustainable solutions, that not only meet their needs and make commercial sense.

"Having launched the Combo™ in 2019, we have further enhanced our game-changing technology to customise it to the American market. Delivering profitable material straight from the belt and minimising operational costs, the Combo™ on display at CONEXPO-CON/AGG is the next phase in showcasing how CDE sand washing works. This industry-leading technology is designed to unlock a New World of Resource, protect our environment and build the world of the future."

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Keestrack optimizes electric drive technology

Keestrack's global reputation as specialist in mobile mineral processing, recycling and quarrying is based on the continuous optimization of its complete range of track-mounted crushers, scalpers and screeners. Today, all models are designed for maximum mobility to minimize setup times and to save transport costs. The company's jaw, impact and cone crushers combine best-in-class feed sizes with accurately adjustable crushing characteristics, ensuring a high versatility and large capacities in recycling and aggregates production.

From vision to mission

As one of the first manufacturers Keestrack invested strongly in the development of diesel-electric drives as an alternative to traditional diesel-hydraulic concepts. Without compromising the plants' mobility and on-site flexibility, the "e"-versions provide combined power units with on-board diesel and generators, supplying the electric drives for crushers, screens, conveyors and ancillary equipment. Most models also offer a "plug-in" - and "plug-out" option, enabling energy supply through up- or downstream machines, external gen-sets and emission-free operation, when connected to the grid.

Lowest cost by innovation

Being able to produce "green" is great, but the main driver for the development of Keestrack's "e"-mobility are the important energy cost savings in diesel-electric operation (approx. 30 – 50 % less fuel consumption) or up to 80 % saving potentials when connected to the mains in regions with high fuel prices.

But the "e"-versions also provide important operational benefits: Electric drives on conveyors and screens reduce leak-prone hydraulic piping and oil volumes. This minimizes breakdown risks, improves operation in extreme conditions and saves maintenance costs.

In full-electric operation this also applies to all wear parts of the onboard diesel. Less engine hours means less maintenance, which has a positive impact on total cost of ownership, as well as the higher value retention.

By using high-quality steels and the weight-optimized design, Keestrack hybrids weigh less and can be transported in one



piece, without dismantling. This contributes to short set-up times. The integration of all electrical system functions is controlled by the intelligent Keestrack plant control. This includes automated routines like sequential start/stop and the telematics monitoring system.

Today nearly all of the Keestrack crushers, screeners and stackers are available with diesel-hydraulic or optional diesel-electric drive. Introducing their "heavy range" of new crushers above 60 tons transport weight, Keestrack fully switched to the diesel-electric "plug-in" drive concepts, introducing new innovative features such as "drop-off" power units (diesel + generator) for dust and vibration free remote energy supply. High rated "plug-out" connections allow the most economic operation of multi stage production trains, centrally supplied by one single power unit of the biggest machine. All Keestrack hybrid plants provide intelligent machine controls monitoring the diesel-electric or "plug-in"-operation as stand-alone units or integrated production trains.

Outstanding Service

The full range of Keestrack crushing and screening products are available from Warwick Ward (machinery) Ltd and will be sold alongside their existing construction, and recycling offerings. 50 years industry expertise makes Warwick Ward a total one stop shop solution for all your Earthmoving, Quarrying and Recycling Equipment needs.

Further information about the Keestrack range of equipment can be found here:

<https://www.warwick-ward.com/keestrack>



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Crusher Spares Ltd - Recognised Worldwide for in-depth knowledge of the crusher spares industry

The Garwood family created Crusher Spares Ltd in 2009. The family business was initially set up to support the many Kue-Ken Brown Lenox crushers still working worldwide after the factory had closed in 2000. More than ten years later, the company now boasts extensive stock to suit all major crusher brands. The company exports to thousands of customers worldwide with repeat business key and a testament to the products supplied, being highly competitive and proven to last.

Over the last ten years, Crusher Spares Ltd have achieved a solid customer base with 80% of business being to repeat clients, and export sales currently at over 75%. Customer satisfaction is high worldwide and clients always place spares orders knowing the parts will arrive on time and with flexible payment terms.

Managing Director Craig Garwood explained "Even though the UK & Ireland has some long term valued customers the export market continues to grow rapidly, and being family run we can make instant decisions on key elements of the business reacting to customers' needs effectively and quickly. We also have access to a 24-hour engineering workshop which is key to fulfilling urgent orders on time for clients worldwide."

Crusher Spares Ltd will once again be attending the ConExpo show in Las Vegas this year with a view of increasing their ever expanding dealer network.

A recent client in the USA had an existing 30x20 double toggle crusher frame that they required replacing. Crusher Spares Ltd have now successfully replaced this for them with a bespoke solid steel frame made with strong backs machined from solid steel, and not castings. This will now last another 60 years.

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Based in South Wales, Crusher Spares Ltd are proud to manufacture and export high quality British products worldwide. For more information about Crusher Spares Ltd please call Craig or Ryan Garwood on +44 (0) 1443 228 329, email info@crushersparesltd.co.uk or visit their website at www.crushersparesltd.co.uk



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Emergency primary crusher repairs completed over the Christmas period

During the Christmas period QMS was engaged by two of the UK's largest granite quarries; Aggregate Industries Bardon Hill and MQP Cliffe Hill; to respond to critical breakdowns to carry out a complete strip, repair and rebuild on their primary crushers. The unplanned maintenance on the Fuller Traylor 54x74" Gyratory Crushers meant QMS had to respond instantly and deploy its resources at short notice. As the 54x74 model of crusher has a capacity of over 2000mt/h the importance of completing a repair quickly and efficiently on these complex machines was critical to both quarries.



After immediate inspections of the crushers were completed by QMS' experienced team of engineers, it was identified that the crusher head had been spinning and the decision was made to continue the strip of the machines.

QMS engineers measured and checked all running components and identified that the bronze eccentric bushes and spider bushes on both crushers needed replacing. As QMS holds extensive multimillion-pound stock of aftermarket crusher spares the rebuild was able to continue uninterrupted by any delays that would have been caused by the manufacture of the required spares.

The process of stripping and rebuilding each crusher required the use of skilled engineers and a range of maintenance processes. QMS service engineers were able to remove the spider assembly, weighing 18 tons, from the crusher as they are all fully trained appointed persons and hold the necessary qualifications to work safely and competently on site. After removal of the worn spider bush, the spider bore was checked, and the new spider bush put in place utilising liquid nitrogen to shrink the spider bush to the required size.

The main shaft assembly, weighing 50 tons, was carefully lifted from the crusher and placed in the maintenance bay, where it was inspected for signs of wear and damage.

The inner eccentric bushing was removed from the eccentric tube with the aid of the overhead crane, the eccentric bore was measured and inspected for signs of wear and defects. The new inner eccentric bushing was placed in the cryogenics



tank and cooled with liquid nitrogen. Once the inner eccentric bush had reduced in temperature, it was carefully lifted out and lowered into the eccentric tube and then allowed to return to ambient temperature before being secured with the fixing bolts.

Douglas Galbraith, Operations Manager at Bardon Hill Quarry said "Though we work to eliminate breakdowns from our operation (and have succeeded in hugely reducing them), before Christmas we suffered a significant breakdown on our Fuller.

"I just wanted to drop you a note to say thank you for your responsiveness, quality of work, technical approach and thoughtfulness in solving the issue.

"Working through Christmas is a challenge in itself, but our teams dovetailed well and not only achieved our own planned shutdown works but successfully restored our Fuller to production in a timely manner".

QMS engineers are experts in crusher maintenance and repair. No matter who manufactured the original crushing equipment, QMS engineers have the industry knowledge and experience to undertake the work required. QMS customers can be assured that when they utilise QMS and their team of

highly skilled and time served engineers that their crushing equipment has been repaired and assembled to the original manufacturers' tolerances and specifications.

QMS understands that breakdowns need to be resolved as quickly as possible to get their customers back up and running.

QMS engineers carry out detailed inspections to look for potential hidden failures such as stress cracking, abnormal wear, excessive consumption, excessive vibrations, abnormal temperature and noise and provide customers with a detailed report highlighting any issues found, the actions needed to be taken and any maintenance recommendations.

QMS celebrates its 40th year in 2020 and has built a breadth of knowledge on an extensive range of crushing and materials processing plant. Their large state-of-the-art workshops are equipped with specialist equipment which enables even the most complicated of repairs to be completed in house.

Look out for a range of events throughout this 40th anniversary year for QMS who will also be exhibiting some exciting new products at Hillhead 2020.

O'Brien Aggregate Marsden Ltd invest in a Finlay 694 to further enhance their processing capabilities

Located near Whitburn, South Tyneside, Marsden Quarry has been at the centre of the local working community in Sunderland for over 150 years supplying aggregates and materials for all manner of local building projects.

The quarry provides a range of primary and recycled construction aggregates that supply markets throughout the North East of England including Northumberland, Tyne and Wear and Co Durham.

O'Brien Aggregate Marsden customers include local authorities, civil engineering and construction industry as well as demolition contractors.

A new acquisition:

Having suffered with under investment in recent years Marsden Quarry was acquired by O'Brien Aggregates in 2018. Since then with a whole new management team and an IT infrastructure with an integrated customer portal in place alongside investment in new processing equipment the business has grown from strength to strength.

Currently the quarry has ongoing landfill operations alongside the main task of processing the reserves of limestone in the quarry. To process the limestone the company have spent considerable time in sourcing the most efficient and reliable processing equipment that is available on the market.



Their current equipment portfolio includes a number of Terex mobile crushing and screening machines including two Terex Finlay 683 Inclined Screens, a Terex Finlay 883+Spalek Screen and a Terex Finlay J-1170 Jaw Crusher.

Recent investment:

Having great confidence in the Terex Finlay brand further investment has recently been made in a new Terex Finlay 694+ Mobile Inclined Screener which has been supplied by Molson Equipment through their subsidiary Finlay Scotland Ltd from their depot at Glasgow.

Prior to this order a used 694+ was duly delivered to the quarry and put through its paces.

Euan Fairweather – Sales Manager for Finlay Scotland, commented, "At the time the only machine I could get for a demonstration was a five-year old model. However, the performance of this machine illustrated the fact that its 'best in class' is well proven".





Wayne Brennan – QM, commented, "Following a demonstration of an older 694 we found that the performance was so impressive, and the product was so much cleaner it wasn't a difficult decision to make. It provides a totally consistent better quality of material and it has proved to be 'miles better' than anything we have experienced before!"

Processing duties:

Material is extracted from the face by a Hitachi 470 fitted with a breaker as no blasting is allowed due to the proximity of an adjacent highway. Working in area A, material is then fed by loading shovel into an impactor and crushed and then fed onto a Terex Finlay 683, which scalps off the oversize. Working in tandem the 683 feeds the new Terex Finlay triple-deck 694+, stockpiling 50/20 and 10mm aggregates plus a lime.

Speedy and efficient servicing:

All the Terex Finlay equipment is comprehensively covered by an extensive fleet of modern, fully equipped Molson service vans and a team of highly experienced engineers who are

well positioned to resolve any equipment problems with speed and efficiency.

Terex Finlay 694+

Part of the 6 Series range of Finlay tracked inclined screens the 694+ is a versatile, high capacity, robust and durable machine that can be operated in a wide range of primary and secondary screening applications and is suitable for processing and sizing aggregates, minerals and recycling applications.

With 'best in class' production levels, set up time and ease of operation, the Terex® Finlay 694+ is undoubtedly the industry's leading tracked mobile inclined screen. With a triple deck 20' x 5' (6.1m x 1.525m) screen box with full catwalk access it is the largest and most accessible in its class.

A high capacity belt feed hopper is available with remote tipping grid or double deck vibrating grid. The triple deck screen configuration provides three full sized 20' x 5' (6.1m x 1.525m) screens which provide ultra-efficient screening capacities even at small aggregate sizes.

A combination of quick wedge tensioning, convenient access holes, and hydraulic tensioning on the bottom deck ensure mesh set up and change out times are kept to an absolute minimum.

Featuring four stockpiles, an innovative hydraulically folded fourth conveyor allows simple adjustment with variable tilt and slew discharge for re-circulation or stockpiling of finished material. Washing equipment can also be fitted to the screen-box if required between 18 degree and 30 degree.



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Our operators catchline: We don't stop

MB Crusher has been in the attachment industry for 15 years, actively listening to operators and companies from all over the world. A common concept raised: a practical and flawless site is the key to a competitive edge.

"I need the job to be done well, quickly and without extra costs for logistics, maintenance or even training to learn any new technology."

Tangible and genuine solutions are the prevailing desire of professionals and companies that are involved in many sectors like: construction services, demolition, roadworks, earth moving, industrial and urban development, trenching, excavations, tunnelling and environmental reclamation.

"Our industry needs constant work. We cannot allow ourselves any downtime. Is there any other way to be competitive? ". Those who know the basic requirements for any construction, excavation and recycling job site, are familiar with the commitment towards the job. The customer's satisfaction and deadlines, that each contract involves.

For over 15 years MB Crusher's mission has been: to boost work, improve productivity, make companies competitive and to tirelessly win. Tireless is the perfect word to use to describe MB's patented crusher buckets. As they enable to work non-stop for decades, while all the units require is sparing a few minutes to grease them. Everything processed onsite with zero extra expenses is the MB motto: crushing of any inert material onsite, with no transport, disposal or rental costs. For those who want to take full advantage of onsite processing, MB Crusher buckets lines are the ideal tools.

No need for specialized technicians, plus, no need to purchase many spare parts, equal to maintenance costs reduced to almost zero.

"As sales director - Guido Azzolin states- I can testify that every day we receive calls from company owners, excavator operators and project managers from all over the world. We assist them by analyzing the costs of maintaining the old units while adding the new to increase production and profitability. It is mandatory to use the right attachment to optimize all inert material for the project at hand while taking into consideration the company's goals and local restrictions.

There is a reason why we offer the widest range of crusher and screening buckets in the world: Our "first edition" units aren't "disposable" or obsolete when we release the latest version. Our equipment simply evolve. We improve everything that research suggests while maintaining the quality that leads us to the top of our industry: our excellent on-site crushing, simplified operations, long life, competitive costs. We also take pride in our customer's use of the attachments, by regularly publishing their videos on our YouTube channel. Each video is unique and shows the efficiency of MB buckets after many years in the field or the exceptional productivity of the newer models added in the work process ".

Non-stop operations and high profitability: is MB's promise to all customers who want to increase their workload without modifying their excavator. From simply applying grease, exchanging jaws or installing a new bucket, all operations are done quickly with no time wasted on learning new settings or by attending courses or training sessions. All the profitability of a jaw crusher is immediately obtained on site.

Faithful to our commitment towards improving all job sites, wherever they may be, MB has agents and distributors all over the world. Ready to offer fast and free information, live demonstrations and around the clock assistance. Just contact the company by phone or by accessing their websites chat, to set up a demo, order parts or even to try a bucket to test its efficiency.

"Crushing" the costs to build profit directly on site is a play on words that reveals the golden rule shared by MB professionals and businesses in all 5 continents.



BF120.4 on Akerman EC300, rock quarry

For the past 10 years, the BF120.4 crusher bucket is the only crusher in this quarry where it reduces Dolomia rock (Dolomite) for all construction projects in the area. After all these years, the only more substantial maintenance intervention was the belt replacement.

CMB International bring production back on stream for Angle Park Sand & Gravel

Peter Cuthbert - Director



Angle Park Sand & Gravel Ltd is an independent business that has been producing high quality sand and aggregates for the construction industry, precast manufacturing, asphalt production, sports surfaces and drainage works since 1961. Today, this third-generation family-run business supplies

domestic and commercial markets throughout the central belt of Scotland. Incorporated in 1961 by founder Frank Cuthbert, today the business is run by Ian, his son Peter and daughter Kerry, representing the second and third generation managing their two sand and gravel pits at Melville Gates and Mountcastle, close to Ladybank, Cupar, in the Howe of Fife.



A recent acquisition in 2012 the Mountcastle site has reserves of approximately 1.6 million tonnes with a sand and gravel plant producing a coarse concrete sand and 4 gravels.

Recently production has been affected by a badly performing primary screen which had been breaking decks due to excessive build-up of material.

Seeking a replacement, the company having researched the market awarded the order for a replacement to CMB International who supplied a brand new 26VB - 1.5m x 6m bespoke double-deck screen.

Peter Cuthbert takes up the story, "We had an ailing screen where the decks and supports were failing so it was imperative, we had a new screen to fit the existing structure with minimal changes but have a bigger capacity and be more robust.



We realised after research that there were very few companies who could supply what we needed, and it was clear to us that CMB could, and had been involved in many successful previous projects, hence our decision to award them the project."

The new CMB 26B - 1.5 x 6m double-deck screen:

With the plant running at 170tph the new screen is fed as-dug material by loading shovel into the feed hopper and then onto an inclined conveyor and onto the top deck of the screen. Any +40 material comes off is then recirculated through a crushing loop to a cone crusher. With a split deck at the bottom 0-2mm and a 2.5mm grit by-pass and are fed straight to the sand plant. The remaining +5 -40 material in the middle is then fed to a VSI in the processing line.

Liam Holland – General Manager at CMB International, commented, "The new screen has eliminated the previous build-up of material which was achieved without a relieving deck and using a different speed/stroke combination which in turn has increased the efficiency of the screening process with subsequent results."

A smooth transition:

Following an on-site survey, a new screen was designed, manufactured and installed and commissioned within 16 weeks.

Peter added, "It's a tribute to CMB and the local fabricators who all collaborated so well to make it happen seamlessly. I turned off the plant on Wednesday evening and the new screen was installed by CMB and my team and commissioned by Saturday lunch!

"It has been a very successful project from start to finish and is a huge credit to CMB who ticked all the boxes."



About CMB International:

CMB International supply new and used quarry plant, bespoke fabrication, spares and repairs.

CMB was established in 1996 by Martin Brough, who working as an experienced site service engineer, realised that there was a lack of quality service support for cones, jaw crushers and screens within the quarry industry. With an ethos to provide effective on-site plant maintenance and help customers get the best possible production from their plant, the CMB philosophy has always been and remains customer driven.

From day one the philosophy of CMB International has continually evolved, aiming to meet and exceed the requirements and expectations of you the customer.

"Customers appreciate our knowledge, flexibility and our ability to respond to a problem with immediate effect."

The continuous evolution of CMB International has led to us now having our own range of crushing and screening equipment that is all designed and manufactured in our UK workshop.

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Delivering Laboratory Qualifications for the Extractives and Mineral Processing Industries



Working in a laboratory or laboratory-related environment exposes many disciplines where employees may be at risk when working with biological agents, diagnosing faults or even carrying out scientific testing. But what are the suggested qualification routes to take?

Aside the general duties of COSHH which are standard in all laboratory and related environments with training typically provided by the employer, there are a vast amount of provisions needed to be taken to control the hazards in a laboratory environment. Different industries and sites will have their own level of hazards that must be considered; it is important that you understand the impacts of your own working environment before work commences in order for the correct training and qualification level to be achieved.

It is also important to ensure that your risk assessments are relevant. Do your risk assessments reflect the specific risks in your working environment? Check that they imitate the risks throughout, and they are communicated to your workforce.

With recent figures from the HSE stating that there are over 230,000 people working in laboratories across the UK, it is crucial that the correct control measures are put in place to maintain a safe working environment with any unnecessary risks avoided and help reduce the number of accidents and near misses calculated across the industry.

Here at Mentor, we offer a range of laboratory-related vocational qualifications through our qualifications team - Serac UK. Our accredited Laboratory and Associated Technical Activities (LATA) qualifications are designed purposely for those working in sampling or analytical roles looking to maintain health and safety in a scientific or technical workplace.

We offer two accredited standards each relevant to specific industries and working environments - MPQC LATA for our customers who are primarily focused in the Mineral Processing, Extraction and associated industries or PAAVQ-SET for industries such as Facilities Management, Waste Recycling and Utilities. We offer a range of LATA Qualifications from basic level 2 operator through to advanced level 4 for managers. Each level will form the basis of a comprehensive training programme for laboratory technicians that can then be developed further if required.



Why complete a LATA qualification?

The qualifications provide delegates with the skills and knowledge needed to work safely in a scientific or technical workplace with key units including:

- Maintain Effective and Efficient Working Relationships for Scientific or Technical Activities
- Measuring, Weighing and Preparing Compounds and Solutions for Laboratory Use
- Diagnose Faults, Repair and Maintain Scientific or Technical Equipment
- Provide Technical Advice and Guidance for Scientific or Technical Activities

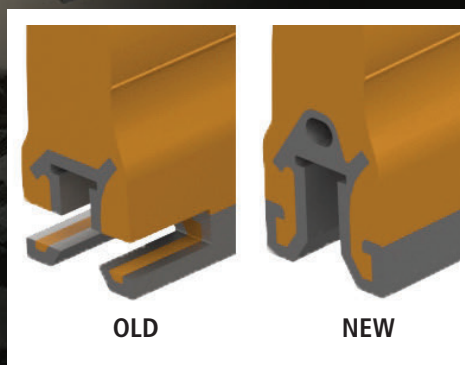
The LATA qualifications are available to book through our training team today. Call us today to discuss what level training is best for your employees and to book your course – 01246 386900.



New conveyor belt cleaner design: Reduce inventory with cut-to-length

A new conveyor belt cleaner has been designed with an innovative method of holding the urethane blade in place without the need to mill any slots for holding pins. Combining the benefits of previous designs into one product, the QC1+™ Belt Cleaner from Martin Engineering can be cut to length to fit virtually any application, reducing the need for customers to stock multiple blade sizes to accommodate different belt widths. Operators simply trim the blade to the desired size from the stock 9-foot (2.74 meter) length to match the material path, slide in the blade holders and lock them in position. The new blade can be retrofitted to virtually any Martin main frame and most competing designs.

The blade holders slide on a guide rail, and can be adjusted to match the material path.



The new QC1+ holds the urethane blade in place without milling slots for pins.

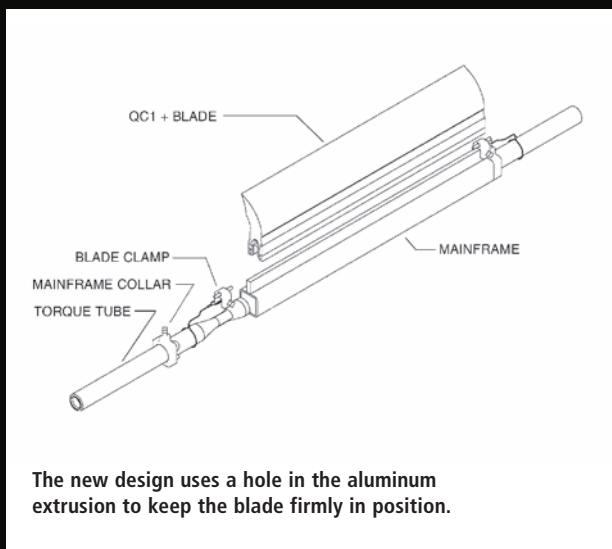
"In most belt cleaner designs, the blade is pinned in place, but this new approach uses a hole right in the aluminum extrusion to keep the blade firmly in position," explained Conveyor Products Manager Dave Mueller. "The biggest benefit to customers is the ability to buy long length blades and cut them to size without doing any machining. Most customers have a number of different belt widths, so in the past they've had to stock different blade sizes. But this design can accommodate a wide range of belts with a single product."

In some applications, existing cleaner designs are limited by the placement of the pin holes. In the case of a 36" (91.4 cm) wide belt that has a material path of just 20" (51 cm), for example, there might be pin holes at 2" (5 cm), 6" (15 cm)

and 8" (20.3 cm), with no holes for a 20" blade. The result would be the dreaded 'smiley face' wear pattern, and the uneven blade wear shortened its service life.

"With this design, the blade holders slide and lock on a blade guide rail, and are adjustable to whatever width is needed to match the material path," Mueller said. "That contributes to better cleaning efficiency and longer blade life."

The mainframes on the QC1+ are 3-piece assemblies, with a square center section and a torque tube sliding into each end. The tubes are formed from high-strength steel and engage in the corners of the square main frame. They transmit the torque from the tensioner through the tubes and into the main frame to maintain blade tension.



The torque tube lock collars are designed to be an interference fit with the square mainframe. To assemble, the tube is installed first, then the collars are added and set in position. The length of the mainframe is adjusted next, and finally the set screws on the collars are tightened down. In most applications, the simple sequence can be performed by a single worker in just a few minutes. The new design is compatible with any of the Martin tensioning systems.

Urethane belt cleaner blades from Martin Engineering are designed with the company's patented Constant-Area Radial Pressure (CARP) technology to deliver consistent cleaning

throughout all stages of blade life. Martin designed and developed the concept, patented in 1990, which has been adopted worldwide. The innovative engineered cleaners maintain the same contact area, blade angle and pressure to effectively remove virtually any type of material carryback, even as the blade wears down over time.

Five different urethane formulations are currently available for the QC1+:

- Standard orange for most applications (approved by MSHA for mining applications)
- Brown for chemical resistance
- Green for high-temperature applications
- Clear for dry products such as sand and gravel
- Navy blue for tacky materials such as cement

The product is initially being launched in the USA, followed by other regions over the coming year.

"This design introduces a new generation of belt cleaning technology," Mueller added. "It's a truly revolutionary product that delivers the cleanest belt and the longest blade life -- at the lowest cost."

Hereford Quarries recycles 100% of inert waste with CDE wet processing plant

In 2015, Wye Valley Group, Herefordshire's leading trade waste recycling business, established Hereford Quarries Ltd. Based at its new 10-acre Lugg Bridge site north-east of Hereford, its aim is to maximise local resources to reduce the county's reliance on imported virgin primary aggregates.

The operation began with a mobile jaw crusher and screener to process construction waste into basic crusher run and hardcore materials, suitable for use as low-grade sub-base material.

Hereford Quarries Commercial Manager, David Ambrose said, "The rudimentary crusher runs and hardcore products we started with allowed us to recycle inert construction waste

materials and subsequently helped us in meeting our sustainability objectives by processing material that was destined for landfill. However, the processed product was the minimum technical standard that could be accepted into the marketplace and, as such, would only command a price reflective of its quality."

One year into its operation, Hereford Quarries partnered with CDE, the industry-leading wet processing equipment manufacturer, who was commissioned to provide a bespoke solution to recover quality-assured construction aggregates that complied with European specifications.

The objective of the CDE wet processing plant was to support Hereford Quarries in maximising the value of its feed material by producing washed and graded recycled sand and aggregates including drainage stone, MOT Type 1 and 65F.

David said, "The CDE wash plant is adding significant commercial and technical value to our operations. We are now recovering recycled aggregates back to their highest potential added value and to a technical and quality standard that can compete directly with primary aggregates."

David went on to explain that the custom-built CDE wet processing plant can also process more challenging material.

"We are able to process much higher volumes and more challenging materials with the CDE plant compared to that which was possible with a mobile crusher and screen. The plant's high capacity provides the opportunity to up-scale our operations and throughput as the market grows, whilst maintaining the high product quality."





"At present, we are diverting 120,000 tonnes of construction and demolition waste from landfill annually. With the support of the CDE technology we are processing 100 per cent of material that comes into the site and converting it into saleable product."

"Sustainability is at the centre of our operation," David said. "Our circular economy approach, backed up by an efficient CDE plant, is reducing reliance on scarce natural resources in Herefordshire and surrounding areas. Most primary aggregates available in the local market are imported and carry a high carbon footprint. Hereford Quarries is responding to the demand for primary aggregates with a locally sourced, high-quality, recycled product."

David Kinloch, Regional Manager UK & Ireland at CDE, said, "Expert CDE engineers worked closely with the Hereford Quarries team throughout the design and commissioning process to not only understand what the business wanted to achieve from its plant, but to better understand the context of the local Herefordshire market."

"Since its commissioning in 2016, the cutting-edge wet processing plant at Hereford Quarries' Lugg Bridge site has, in a short period of time, fundamentally revolutionised its recycled aggregates operation and has put the company at the forefront of championing sustainability throughout Herefordshire."

"The recycled aggregates producer is maximising resources and profitability while minimising environmental impact through water conservation, CO2 emissions reduction and, ultimately, diverting many thousands of tonnes of construction and demolition waste from landfill."



Hereford Quarries is a sister company of the Wye Valley Group, which also has operations in demolition, construction, skip hire, scrap metal and waste management including the handling of contaminated and hazardous wastes.

For more information about CDE or its wet processing solutions, visit cdeglobal.com.



CEMEX recognises safe and efficient driving with celebratory event

Building materials supplier CEMEX held its annual Driver of the Year Awards to recognise the commitment of its LGV operators to safe, efficient and skilful driving.

All 15 finalists came from CEMEX sites across the UK and enjoyed a series of activities – on and off road – at the industry renowned vehicle test centre of Millbrook. These included an off-road driving challenge, legal knowledge quiz, reversing and manoeuvre test, Batak reaction challenge and defect test.

Two overall winners were then announced; one each from the cement and aggregate divisions. This year's victors were Tim Eley, a member of the cement driver team at Rugby and Gordon McKeen from Aggregates.

The awards are open to all of CEMEX's employed aggregate and cement tanker drivers. Throughout the year records are kept of each driver's fuel performance, incorporating their MPG rate and driving style, which are then used to select the finalists.

This was the third year of the awards, which are held in memory of CEMEX Driver Trainer Keith Lacey, who was based at the South Ferriby site and was renowned for his passion for driving safely.

Rob Wilkinson, Supply Chain and Logistics Manager for Aggregates & Asphalt, commented: "Our LGV drivers are a key part of our nationwide operation and it is important that we recognise their dedication to safety. This event is a fun celebration of the work they do, with an important message - we must always make safety our number one priority as failure to do so can have life-threatening consequences.

"We hope those who took part in the day enjoyed the activities. Well done to all the finalists, and Tim and Gordon in particular for being overall winners!"

For further information about CEMEX, please visit <https://www.cemex.co.uk>

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HUB 4

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