

March/April 2020 | Issue 61

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

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SORT SHRED CRUSH SCREEN

Molson Green, the specialist recycling and material handling division of the national plant and equipment dealer Molson Group, have expanded their agreement with the leading Bavarian crane and material handling manufacturer Sennebogen to supply their scrap metal and port handling machines throughout the UK.

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Terex Trucks' TA400s brave -45°C in Russian mine



Four Terex Trucks TA400 articulated haulers have clocked up around 48,000 hours in a remote coal mine in Siberia, Russia, where they are braving extreme conditions and sub-zero temperatures.

Situated in eastern Siberia, the Arpatsky coal mine is a tough workplace for operators and machines. The long winter - when temperatures can get as low as minus 45 Celsius - puts mining equipment to the test. For the last eight years, four Terex Trucks TA400 articulated haulers have been working at the coal mine, delivering reliable workshifts despite the adverse conditions.

The dump trucks – offering a maximum payload of 38 tonnes (41.9 tons) – are transporting coal and overburden, working up to 22 hours a day. During winter, the ground is covered with snow for many months, meaning the haulers have to operate on slippery surfaces and navigate steep, icy slopes. “The robustness of the TA400 and its ability to deliver a reliable performance in tough conditions was a big part of the reason why we chose Terex Trucks haulers over other brands,” says Dmitry Dulin, Chief Engineer at the Arpatsky coal mine. “Since 2012, our haulers have already clocked up around 48,000 hours and they’re still going strong.”



The TA400 is the master of steep hills

The truck operators appreciate the TA400's ability to climb and descend the slopes at the coal mine. “The hauler handles the downhill slopes smoothly and safely,” says Oleg Likhodumov, Director of Mining Operations at the Arpatsky



coal mine. “With the exhaust brake, we don’t even need to use the brakes when going down steep hills.” The TA400’s modulating transmission retarder is coupled with an efficient exhaust brake and fully enclosed oil-cooled multidisc brakes, this provides optimum control and increased safety on steep slopes.

“In mines, you need powerful, robust machines that can perform in extreme environments,” says John Rotherford, Global Key Accounts Director at Terex Trucks. “The drivetrain of the TA400 is perfectly matched to the engine and designed to maintain traction and speed on the toughest jobsites for outstanding productivity at all times.”





"The TA400 offers the complete package," says Dmitry Glazunov, Deputy Director at the Arpatsky coal mine. "It's simple to operate, reliable and delivers low total cost of ownership. Another benefit is that the machines are easy to service – the axle, gears and engine are all easy to access, so service and maintenance work is straightforward, without needing special diagnostic equipment." Terex Trucks offers dedicated on-site maintenance and support services, which is especially important in Russia as the country is so vast – often dealers' branches are based hundreds of miles away. "Our dealer Mining Eurasia handles all the maintenance of our trucks," says Dmitry. "There's a workshop with spare parts at the coal mine, so we can get round-the-clock servicing."

The TA400 - Terex Trucks' workhorse

The TA400, the largest articulated hauler on offer from Terex Trucks, has 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.



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Welcome to issue 61...

Well Conexpo was fun – three days of walking the halls which turned out better than expected with in excess of 130,000 visitors in attendance with most exhibitors expressing delight at the show. The weather was not the usual Vegas treat and some significant downpours were experienced, but with low expectation levels it all ended with big smiles all around as it proved it wasn't about visitor numbers, but the quality of the visitors that attended.

We are also very pleased to report that several companies at Conexpo confirmed new business achieved from published HUB-4 content which makes the team very happy!

Where do we go now?

With IFAT in Germany now postponed we start to ask what will survive in the short term. Obviously, you can make all sorts of calculations but even with a show up and running visitor numbers would obviously be affected.

It's a 'once in a lifetime' experience so we are all in unknown territory. However, one thing for sure HUB-4 will continue to report on the latest projects and the launch of new products.

We will keep you updated on the content of our next edition and continue to be totally flexible and offer you the best platform in the industry either in print or electronically.

Keep safe.

John Edwards

Editor



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Molson Group expand their agreement with the leading Bavarian crane and material handling manufacturer Sennebogen

Molson Green, the specialist recycling and material handling division of Bristol based plant and equipment dealer Molson Group, have expanded their agreement with the leading Bavarian crane and material handling manufacturer Sennebogen to supply their scrap metal and port handling machines throughout the UK.



This move sees Molson improve their position as a single source supply option for mobile plant and equipment to a wide range of industries. From 12 depots spread throughout the UK and over 100 service engineers, Molson are one of the largest suppliers of construction, recycling and material handling equipment in the UK offering a 360-degree range of products including material handlers, loading shovels, excavators, dump trucks, crushers, screeners and conveyors to name a few.

Robin Powell, joint Managing Director of Molson Group, commented: "We are extremely excited about the addition of the Scrap and Port industries to our Sennebogen product range and the opportunity for growth that it creates. This addition perfectly positions

Molson to simplify our customers supply chains with a single source supply option, thanks to our 360-degree product range with an after sales service that can be counted on.

"Although the ports industry particularly is new for us, we have been gearing up for this for some time – we have the right people in place through our organisation to hit the ground running and deliver customers with the right solution for their business and an after sales team can keep their operation running at optimal performance."

Alfred Endl, Sales Director for Sennebogen commented: "Molson has generated impressive growth across the UK in the recycling, timber and demolition sectors, this along with the outstanding levels of customer service that they deliver made it a natural choice to expand their industries. We are very happy with how Molson are continuing to build and promote the Sennebogen product range in the UK market and we look forward to working with them to support this growth in the Ports and Scrap industries."

Since first signing an agreement with Sennebogen in November 2015 for the distribution rights for products to the Waste, Timber and Demolition industries in the UK, their ambitious approach has seen Molson achieve an impressive growth in market share for the easily spotted green machines. The addition of the Scrap Metal and Ports industries represents a significant opportunity for Molson to expand its business further into new industries, building on the strong reputation Sennebogen already holds in these sectors.

Molson have already positioned themselves well to capitalise on this appointment after building a team of Scrap Metal and Port industry specialists with significant experience in the Sales and Service teams. With this depth of knowledge within the team, customers can be confident that they are dealing with the experts who also have the scale and backup infrastructure to deliver the outstanding levels of after sales support that the Molson brand is already synonymous with in the construction and recycling industries.



Molson grabs Rotobec dealership

Bristol based plant and equipment dealer Molson Group, have been appointed as a UK distributor by Rotobec, a world leading grapple and attachment manufacturer...

Following the expansion of the Sennebogen range available from Molson to include Scrap and Port handlers, the addition of Rotobec to the Molson range was a natural progression as Molson continues to solidify its "Single Source Supply" offering to the scrap, recycling and port industries.



Rotobec manufactures highly durable attachments which have been purpose built for scrap recycling, waste handling, construction and bulk material handling applications. Seen as a perfect fit for the expanded range of Sennebogen machines available at Molson, the Rotobec range will be available throughout the UK from the scrap, recycling and ports experts at Molson Green.

Rotobec were first established in 1975 in Quebec, Canada. The name Rotobec signifies "Rotators" of Quebec. The company introduced some of the first rotating hydraulic systems used within the forest industry. Following this, the company continued to add several products to its range, including those used in scrap recycling, waste handling, railroad maintenance and construction. Today, Rotobec products are used by thousands of customers in 46 countries.

Molson will be supplying Rotobec's extensive range of scrap attachments including the Rotobec Orange Peel Grapple, which is recognized as the industry leader for both innovation and toughness. Their sleek, yet robust, design and standard 360-degree rotation make them a dream to own and operate. Available in 4-Tine, 5-Tine, and Mag-Grab configurations, Rotobec Orange Peel Grapples push the boundary of possibilities to a whole new level. The Poly Grab Grapple is available in 4 or 5-tine configurations, with both offering an impressive 6.3 tonne lifting capacity. Equipped with Rotobec's own 300 bar hydraulic cylinders, and manufactured using high-tensile steel, the Poly Grab Grapple is quite simply the toughest around.

For Forestry applications, Rotobec's portfolio includes Log Grapples, Pulpwood Grapples and Grapple Saws. Available in standard duty, heavy duty and super heavy duty, the Log Grapples set the



benchmark for toughness and durability. It's unique jaw shape, allows wood to easily roll up the inner surface of the grapple, meaning operators can achieve a round bunch every time. The Grapple Saws can be added to both the heavy duty and super heavy-duty Log Grapples. This feature allows you to remove the human element and increase your operation's efficiency, by performing two tasks at once.



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CDE and Molson Washing establish new strategic partnership in the UK

CDE, the industry-leading wet processing equipment manufacturer, and Molson Washing, the specialist materials processing division of Molson Group, have established a new strategic partnership.

Molson Washing is now CDE's strategic washing partner in the UK, while CDE is Molson Group's exclusive washing plant partner.

Under the new partnership, CDE will continue its direct-to-market approach and will work alongside Molson Washing to offer customers the additional equipment and services available from the wider Molson Group's extensive product portfolio.

The partnership is the formalisation of a long-standing relationship between CDE and Molson Washing, formerly Aggregate Processing Solutions (APS). It pairs CDE's expertise in the development of innovative wet processing technologies with Molson Washing flexible approach to providing aggregate washing solutions together with additional equipment ranges and alternatives to capital expenditure, such as finance, price per tonne washing, hire purchase and off-balance sheet financing. It enables the two companies to work in partnership to tender for significant public and private sector contracts requiring a 360-degree turnkey solution.

Following the establishment of the new partnership, the two companies have already secured their first major project to design, manufacture and install a multi-million-pound turnkey wet processing recycling system for utilities contractor Complete Utilities.

Based near Gloucester and operating throughout the East & West Midlands and the South West, Complete Utilities provides design, build, operations and maintenance services across a range of sectors, including groundworks and major infrastructure projects.

Tony Convery, CDE founder, said: "CDE is delighted to appoint Molson Washing as its strategic washing partner in the UK. The new partnership is an opportunity to bring together our collective expertise and provide a comprehensive solution that responds to the business needs and objectives of materials processors up and down the country.

"The combination of innovative solutions and exceptional service made possible under the partnership framework sets out a hugely positive outlook for the continued growth of the CDE brand in the UK."

David Kinloch, Regional Manager UK & Ireland at CDE, added: "Molson Washing is a respected partner in the UK marketplace. It's customer-centric focus is evident in its wide-ranging product and service offering, which we at CDE look forward to enhancing further through the introduction of our patented range of wet processing technologies."

Robin Powell, Joint Managing Director at Molson Group, said:

"CDE have an excellent reputation in the marketplace for manufacturing some of the highest quality washing systems available. This, combined with a customer focused approach from Molson Washing and 360-degree product range from the wider Molson Group, will enable our customers to secure the very best solution for their business from one supplier."

"The new partnership will enable us to offer customers a truly compelling proposition of high-quality equipment, put together in a way that suits their business. As a customer focused business, we relish the opportunities that will come from working together with CDE moving forward."

For more information about CDE and its wet processing solutions visit cdeglobals.com, or to find out more about Molson Washing visit molsonfinlay.co.uk.

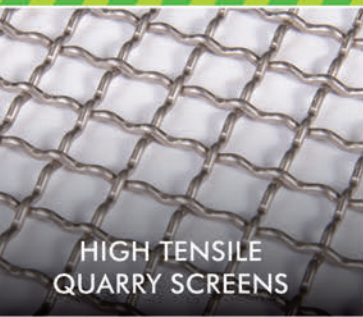


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(top, middle
or bottom)**

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of the screen**

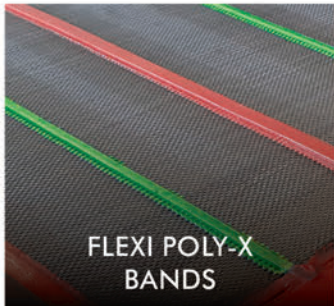
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CEMEX launches first UK Carbon Neutral Ready Mixed Concrete

Building materials supplier CEMEX is proud to launch the UK's first ready mixed concrete that is a CarbonNeutral® product. It presents the Vertua® low carbon concrete range, which includes the option to offset residual CO2 and provide a CarbonNeutral product, in accordance with The CarbonNeutral Protocol.

The Vertua range is an important step to support the Company's recently announced climate strategy, which includes an ambition of delivering net zero concrete globally by 2050.

The range features a variety of bespoke concrete mix designs and includes the Vertua ultra zero option, which is a CarbonNeutral product. This product achieves a 70% reduction in embodied carbon emissions, with the remaining unavoidable emissions offset through working with Natural Capital Partners, a carbon offset and carbon neutrality specialist.

To contribute towards the 70% reduction, CEMEX is introducing a new innovative geopolymers cement solution, which was developed at its Global Research & Development Centre in Switzerland and can be used in certain applications.

In addition to Vertua ultra zero, the range also features other low carbon concretes which can be used in a wide range of applications and include an option for customers

to choose the added benefit of offsetting the residual CO2.

The Vertua line of low CO2 products was originally launched by CEMEX in France in July 2018, and following its success, the offer has now been introduced to the UK and complemented by the offsetting option to deliver net zero carbon concrete. In line with our 2050 ambition, the range will be gradually extended to other geographies in the future.

After engineering carbon reductions into the concrete mix design, CEMEX calculates the embodied carbon generated from extraction and processing of raw materials, product manufacturing and distribution. The residual carbon is then offset, making the concrete CarbonNeutral from cradle-to-customer.

Carbon offsetting is the removal or reduction of emissions of carbon dioxide or other greenhouse gases from the atmosphere in order to compensate for emissions made elsewhere.

CEMEX will facilitate this by investing in projects which physically remove CO2 where possible from the atmosphere, such as planting more trees or protecting against deforestation through an independently audited and verified project. A CarbonNeutral certificate is then issued to the client.

CEMEX is working with Natural Capital Partners, experts in carbon offset solutions, to assure the quality of the emissions reductions, which also deliver added benefits such as increasing biodiversity and reducing poverty. >

Michel Andre, VP Materials Western Europe for CEMEX, commented: "Concrete is an essential part of construction – it is cost effective, versatile and typically made from local materials. Concrete is vital for the infrastructure that helps provide the UK with clean water, sanitation and energy, as well as durable homes, schools, hospitals, travel networks and much more.

"However, we recognise future construction needs to be balanced with the effect it is having on the environment. We at CEMEX know that we can best meet these challenges by working in partnership with our clients and stakeholders to develop solutions together. We continually invest and innovate to become an environmentally friendly, sustainable leader—enabling a low-carbon and resource-efficient circular economy.

Andy Spencer, VP Corporate Affairs, Sustainability & ERM for CEMEX Europe, added: "We are really proud to introduce Vertua, the UK's first CarbonNeutral® ready mixed concrete product. By offering a range of low and 'zero' carbon concretes, including the ability to offset the current residual CO2, we aim to make it easy for clients to make the vital transition to more sustainable choices.

"We know that carbon offsetting is only an interim measure while we further develop technology that is still in early stages. At present we believe it is a good way to sequester the remaining CO2 from our lower carbon solutions to take important climate action now. We are sure this will prove a relevant solution as the construction sector looks to take rapid action to improve the sustainability and climate impacts of the built environment."

Climate change has been a global priority for CEMEX for many years and has brought significant progress to date. But there is a need to do more and faster. This is why CEMEX has recently announced a more ambitious climate strategy, including a new global target for CO2 emissions by 2030: a reduction of 35% to ensure alignment with the Paris Agreement commitments. This is in addition to the ambition of delivering net zero concrete globally by 2050.

CEMEX calculates the embodied carbon in the Vertua range using a Carbon Footprint Calculator (CO2 Tool) that follows the principles of PAS2050.

The Vertua range of low carbon concretes will be formally launched in the UK at Futurebuild 2020 on CEMEX's stand (F70), held between 3rd – 5th March at ExCeL London.

Komatsu approves Continental EM-Master for Dash 8 Wheel Loader Serie

- **Komatsu Dash 8 Wheel Loaders Series produced in Germany and sold in Europe now available with Continental EM-Master tires**

Hanover, February 25, 2020. The Japanese manufacturer of construction, mining, forestry and military equipment Komatsu recently approved the Continental EM-Master tires, both in E3/L3 and E4/L4 version for use in applications with different ground conditions. Starting January 2020, customers in Europe are able to select the Continental radial tires in the sizes 20.5 R25, 23.5 R25, 26.5 R25 or 29.5 R25 if they buy one of the Komatsu Dash 8 Wheel Loader Series (WA270-8, WA320-8, WA380-8, WA470-8, WA-480-8, WA500-8).

EM-Master for articulated dump trucks (ADT), loader and wheel dozer

Continental's EM-Master is tailored to the needs of construction sites and mining sites where articulated dump trucks, wheel loaders and dozers are used. The EM-Master E3/L3 has a normal tread depth and a larger distance between the tread blocks for good self-cleaning properties, traction and maneuverability even on soft and muddy ground. The open tread pattern design ensures better cooling properties and thus lower heat build-up, resulting in higher mileage.

Compared to the E3/L3, the EM-Master E4/L4 has a larger block size with a smaller gap between the blocks. The tire therefore offers high carcass protection and good cut resistance, reducing the risk of punctures and thus downtime. The smaller spacing of the tread blocks with the five-edged

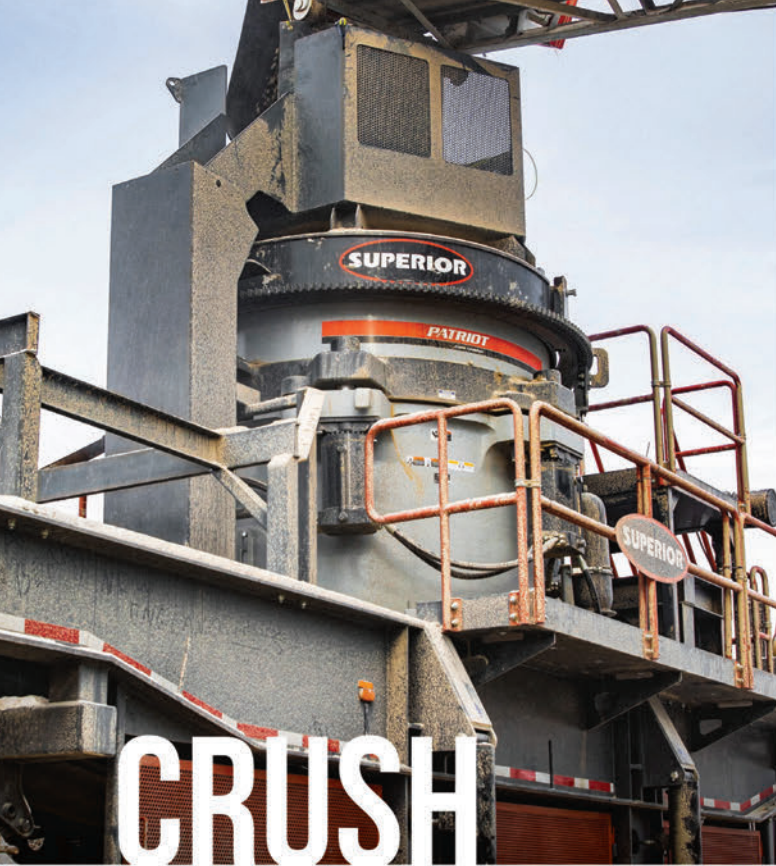
block design ensures smoother running and good traction even on hard and rocky surfaces. Due to its high tread wear volume, the EM-Master E4/L4 also offers a high mileage.

Intelligent tires: EM-Master factory-fitted with tire sensor

The EM-Master is equipped ex works with integrated tire sensors. The sensor continuously monitors pressure and temperature of the tire. With the help of the tire pressure monitoring systems ContiPressureCheck for individual vehicles and ContiConnect for vehicle fleets, the data can be monitored and displayed. This maximizes uptime, reduces downtime and increases operational efficiency. At the same time, the systems also increase vehicle safety.



Komatsu Dash 8 Wheel Loader Series on Continental EM-Master



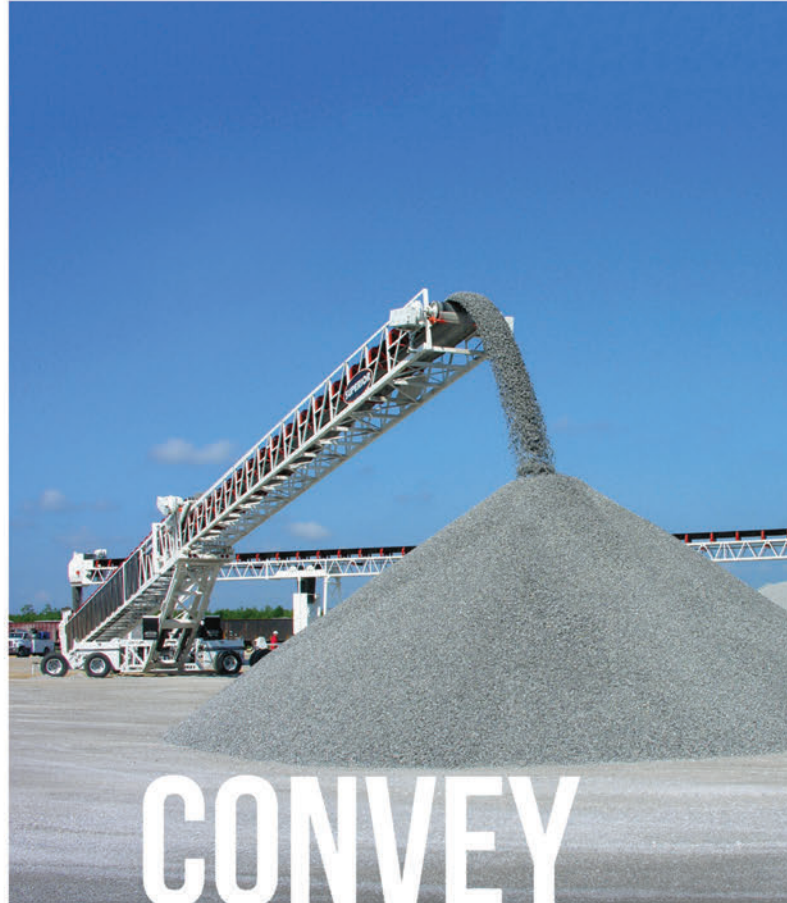
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Viridor and Fortis IBA competition inspires creativity for sustainability



Creativity for sustainability winner

12 lucky Oxfordshire students have learnt about the importance of the message to Reduce, Reuse, Recycle through engaging workshops and an upcycling competition by industry partners, Viridor and Fortis IBA.

The companies joined forces to creatively bring the message of sustainable construction alive to Fritwell Primary School students. They were treated to a fun and interactive day, learning about the journey that non-recyclable waste makes from our homes to be transformed into electricity and how it can contribute to the material used to build roads.

Viridor's Learning and Visitor Centre Manager, Jessica Baker-Pike, said: "We welcome the opportunity to partner with Fortis IBA, to demonstrate through educational school visits to Ardley ERF, the important message of "Right Stuff, Right Bin".

"The workshops and competition were a really creative way to inspire young people to begin to think about their environment, and for us to show them how to maximise opportunities to recycle and then put non-recyclable waste to work, creating electricity, roads and many other end-of-waste products."

The day ended the presentation of a £20 book voucher for the winner of an upcycling competition which had challenged the Fritwell Primary School eco buddies to create a sustainable construction model from anything that would otherwise be considered as rubbish over half term.

Fortis IBA Ltd Communications and Marketing Manager, Kerry Hayman, said: "It is encouraging to see students engaging and asking all the right questions around what happens to their non-recyclable waste.

"Fortis IBA take the ash generated from Ardley ERF and recycle it into FortiStone IBA Aggregate which is used in construction across the county. For every one tonne of the aggregate used, it diverts 400 bags of black bin waste from landfill! In addition to this, the use of IBA Aggregate within Oxfordshire's construction industry preserves our natural resources. The UK now faces a limited availability of primary aggregates and there is a growing requirement for construction to be more sustainable.

We designed this competition to complement the workshop that we gave about IBA Aggregate, and to inspire the students to think broadly about reprocessing, recycling, and waste as a resource."

The winning design, which was a fantastic creation of the Ardley ERF by student, Sam, was selected by Cabinet Member for the Environment, Councillor Yvonne Constance.

Fritwell Primary School teacher, Zoe Rowe, said: "The children thoroughly enjoyed learning about how much can be recycled and reused. We've come away with lots of ideas to take back to the school and I will be recommending further visits."

Viridor operates the Ardley Energy Recovery Facility as part of its contract with Oxfordshire County Council. The plant takes 326,300 tonnes of non-recyclable waste each year. It diverts at least 95% of Oxfordshire's non-recyclable municipal waste away from landfill and generates enough electricity to power the equivalent of 59,616 homes. Viridor and Fortis IBA have a 15-year partnership that sees around 75,000 tonnes of Fortis IBA aggregate being produced each year in Oxfordshire.

Fortis IBA Ltd is a leading UK incinerator bottom ash (IBA) processor. Their bespoke processing technology sees ferrous and non-ferrous metals recovered from IBA to ensure 100% recycling rates are achieved, and a high-quality secondary aggregate is produced for use in the construction industry to reduce reliance on primary aggregates.



Kiverco Launches Corporate Video Highlighting Customer-focused approach

Kiverco has launched a new corporate video entitled *One Team, Delivering Solutions* to showcase how the company delivers a complete recycling solution to customers.

The video shows how Kiverco creates recycling solutions hand-in-hand with customers throughout every stage of the process. Based around Kiverco's four processes of consultation, design, manufacture and Installation, viewers can see clearly how Kiverco employees work together as one team in partnership with customers.

Kiverco builds recycling solutions to optimise performance and ensure the lifetime value of plants is maximised. Additionally, Kiverco solutions are designed to be the backbone of customer operations - delivering results required today with the technology needed for tomorrow as waste streams change, purity levels increase and legislation evolves.

However, what is most important is the quality and integrity of our people, explained Angela Madden, Head of Marketing & PR at Kiverco: "This new video is an excellent way to showcase the team at Kiverco as it is their knowledge, experience and commitment, combined with a one team approach with customers that sets us apart."

"We design and deliver recycling solutions that are durable, flexible, produce higher quality recyclable products and thus

faster financial returns and business security. That is why once a customer selects Kiverco they stick with us from one generation to the next," explained Miss Madden. "The new video helps get this message across."

Kiverco recycling solutions – built with backbone

Combining more than a quarter of a century of innovation know-how with the world's best in class technology brands, Kiverco designs and delivers recycling solutions for any waste stream anywhere.

Kiverco creates durable recycling solutions across the full range of waste streams including construction & demolition; commercial & industrial; municipal solid waste; energy from waste; incinerator bottom ash; dry mixed recyclables and fines treatment.

Kiverco recycling solutions – static and modular - are utilised across the world from the UK to continental Europe and the Middle East to Australia.

Modular recycling solutions can be operated as single units or, when combined together, provide an alternative to traditional ways of processing waste.

You can also view the new Kiverco video at: www.kiverco.com



EDGE Innovate



Rubble Master



Anthony Carlin from Omega Crushing & Screening



Powerscreen at Conexpo



Martin Quinn of Anaconda



Hubert Watson of ROCO, Dave Turin of the Discovery series Goldrush, and Shane Connolly of ROCO



ASTECC Inc. at Conexpo



Jarlath Gilmore & Bobby Carroll of RAPID International



Brian Pauley of Terex Finlay & Jamie Harthorn of Terex Minerals Processing



Michael Brookshaw
of Keestrack



Tony Convery of
CDE Global



Lee Nesbitt of
Telestack



TESAB at Conexpo



John O'Neill & Toni
Laaksonen of McCloskey
International



Melissa Baker of Sandvik



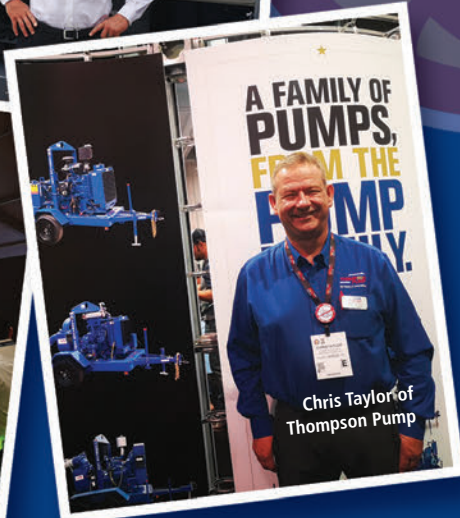
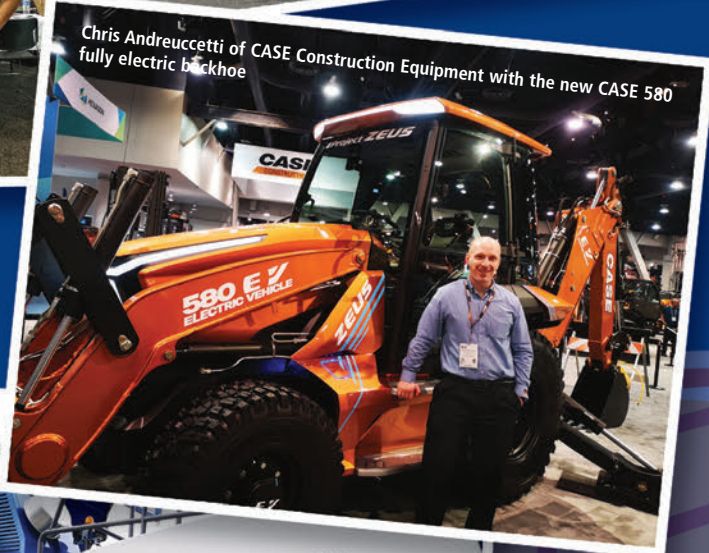
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Carlie Zimmer of Superior



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Turmec develops new MRF in Wiltshire

The Challenge

Turmec was commissioned to design, supply and install an advanced MRF plant in Wiltshire, which will treat kerbside collected comingled recyclable materials collected from around 220,000 households across the region and will have the capacity to process 20 tonnes per hour of dry mixed recyclables.

The Solution

Turmec's plant design and advanced sorting equipment will ensure that a high-quality separation of recycled materials is achieved. Turmec equipment includes various screens with optical and magnet elements to maximise the recovery of paper, cardboard, plastic bottles (PET and HDPE), plastic pots, tubs and trays, cans (steel and aluminium), and food and drink cartons.

The MRF's plant and personnel are geared to recovering materials of the highest quality for reprocessing; the comingled recyclables are sorted in a single pass into 10 separate products for recycling.

All incoming material is loaded into a bag splitter that opens the bags and loosen the material before it's fed onto the sorting line. A quality control station ensures the suitability of material feeding the plant, where it's sorted via a series of screens into cardboard and paper, cans and cartons. Cardboard and paper undergo further sorting into three grades.

Plastics, cans and cartons are separated using screens, optical separators, magnets, eddy currents and further picking stations before the final products drop into gated storage bunkers, and a central conveyor moves all materials from bunkers to the baler.

"This was a challenging and very rewarding project due to timelines and space but now, our client's plant can achieve high standards in all products – in excess of 98% purity," said Anthony Clune, Turmec's Senior Project Manager.

Turmec welcomes new UK MD for Spares and Service



Turmec is proud to announce and welcome Simon Mercer as the company's UK Managing Director for Spares and Service.

As the MD for Spares and Service, Mercer will support strategic initiatives for the growth of Turmec's second-hand equipment and spare parts' sales, nurturing existing relationships and developing new business relationships.

Mr. Mercer brings over 20 years' sales and account management experience within the Waste and Manufacturing industries along with a strong business acumen and knowledge of the UK market as he has been successfully running his own engineering services company, specialising in the supply of engineering parts and repair of manufacturing machinery & plants.

'Simon is an outstanding addition to the team, and we are thrilled to have him on board' said Robert Thornton, Turmec's Director of Spares and Service. 'Simon will bring a wealth of knowledge and experience to the company; his skillset spans all aspects of sales and engineering services for the waste industry.'



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Crushing the competition with Yanmar's SV60 midi excavator

Alutrade Ltd, one of the UK's leading scrap aluminium recycling specialists, has invested in a Yanmar SV60 midi excavator to further improve the efficiencies of its baling press.

Ordered through Johnston Plant Sales, Yanmar's dealer for Birmingham and the West Midlands, the brand new model was delivered to its new owners in January 2020 and is already in operation at the Alutrade headquarters in Oldbury.

Powerful, compact, durable and dependable, the SV60 was deemed the perfect solution to feed the company's state-of-the-art baling press. Fitted with an extended dozer blade and an aftermarket grab attachment, loose cans are quickly and effectively moved into the infeed hopper.

Mike George, Operations Director at Alutrade Ltd, commented: "Running a 24/4 shift pattern and handling more than 3,000 tonnes of scrap aluminium per month, we needed a reliable machine capable of faultlessly feeding our plant. With two Yanmar excavators already operational on site, both purchased within the past 18 months, investing in a new SV60 model was an easy decision.

"The SV60 not only delivers excellent reach and unmatched stability, but also has a spacious, highly-specified cabin to maximise operator comfort. Since taking delivery of the new model, we've been thoroughly impressed with its performance. It keeps our line running at optimum throughput and continues to perform faultlessly.

"We have two other SV60 models on site, which have both totalled more than 5,500 hours on the clock in less than 15 months. It's this reliability – and ability to perform in tough conditions – that keeps us coming back to Yanmar time and time again."

Richard Johnston, Director at Johnston Plant Sales, commented: "Working closely with Alutrade since 2014, we've supplied five six-tonne Yanmar excavators to the company's Oldbury site – two Vi057 zero tail swing models, followed by three SV60s.

"High material throughputs and intensive shift patterns mean that the team require tough, reliable machines. Combining sector-leading technology and future-proof innovation, the SV60 delivers a 'business class' operator experience. With an impressive power output of 33.4kW at 2,200rpm, operators are assured the highest levels of power, flexibility, productivity and precision."

Rolled out across the UK and Ireland in July 2018, the Yanmar SV60 offers the performance of a midi-excavator with the space-saving benefits of a more compact model. Powered by Yanmar's 4TNV84T-ZMBVA engine, the five-tonne model has been specifically designed to minimise fuel consumption and reduce operational emissions.

Additional fuel-saving features, such as Auto-Deceleration (enabling the engine to idle if operating levers aren't touched) and Eco Mode (which reduces motor speed to 300rpm) make the SV60 one of Yanmar's most eco-friendly models ever.



Heavy duty heartbeat

Recycled aggregates and Skip Hire specialists A. R. Richards invest in the right machine for the job with their new Hyundai HL960 HDXT wheel loader, supplied by the recycling machinery experts at Molson Green.

Deep in the Shropshire countryside, just outside the quaint town of Market Drayton you will find the head office of A. R. Richards – a diverse business with divisions ranging from skip hire, recycled aggregates, building supplies, plant hire through to demolition and groundworks contractors. From their head office, located on a former airfield base near Turn Hill, they have built a reputation for delivering what they say, when they say it. Having the right tools for the job is critical to maintaining this ethic, no matter what your trade. In this instance, the latest addition of a Hyundai wheel loader that has been purpose built for the demands of working in a recycling environment is a clear sign A. R. Richards will continue to deliver on their promises.

of mobile equipment including telehandlers, excavators and tractors, this is still true for the team at A. R. Richards.

The HL960 HDXT offers two key differences compared to a standard Hyundai HL960 wheel loader. Firstly, this HD (Heavy Duty) model features a plethora of additional specification that further enhance its durability in the most demanding site conditions. Secondly, the XT (Extended Reach) which allows this particular model to easily load trailers, containers and waggons with ease and accuracy.



A wheel loader is the heartbeat of any recycling site

From feeding processing equipment such as shredders, crushers or screeners, to moving material to stockpiles and loading outgoing vehicles – without a wheel loader, the entire operation would grind to a halt. Despite having a wide variety



Tough enough for the job

With a huge list of upgraded and additional parts, this shovel has been beefed up in all the right places to make it more than man enough for even the most demanding sites and applications. The factory in South Korea have fitted the HL960 HD with the axles from the larger HL970 model to ensure it has the power and durability even on slippery concrete pads that are frequently found on waste transfer and processing facilities throughout the UK. A host of smaller additions on this purpose-built powerhouse really makes a big difference. These include additional guarding (windows, lights, rams and under the engine bay), an air pre-filter and a bucket spill guard fitted to minimise spillage over the top edge of the bucket.



All the additional specification on the HD model builds on an already impressive standard specification that includes an accurate onboard weighing system that is built into the seven-inch touch screen display cluster. This allows operators to monitor the total weight when loading, all through an intuitive display. With other features including ride control, soft end stops and a hydraulic lock differential – the standard HL960 really doesn't skimp on the extras that will keep operators and owners happy.



A. R. Richards. Managing Director, Andrew Richards said; "This is now our second Hyundai loading shovel. We ran the last model for over 4 years, and we couldn't fault it for reliability and productivity.

"The additional spec offered in the HL960 HDXT allowed us to work safer and smarter, something we as a business are always striving to achieve. This and the after-sales support Molson have delivered meant that it was an easy choice to go for another Hyundai".



Reach for the sky

When the XT option is selected, the reach on this wheel loader is significantly increased from 4,105mm at the hinge pin's maximum height, all the way to 4,535mm. This increase allows the HL960 HDXT to comfortably load the vast majority of common bulk transport options.

A. R. Richards have also chosen to take the optional Hyundai AAVM (All Around View Monitoring) factory option which utilises 4 cameras to give the operator a 360-degree, seamless bird's-eye view around the machine via the large cluster display. With object identification and safety zone alerts, the AAVM system enables operators to work without blind spots – improving the safety of any working environment.



Molson Sales Manager, Andy Wilkinson said; "It was a pleasure to work with Andy and all his team. Their diverse business is highly respected in the area and it aligns with the wide range of construction, recycling and processing equipment now available at Molson. I look forward to working with Andy and hope we can assist him as his business continues to grow.

TURMEC

The background image shows a complex industrial recycling plant. It features several levels of platforms and walkways, all equipped with bright yellow safety railings. A large, dark-colored conveyor belt system is visible, sloping downwards from the right side of the frame. In the background, there are large white and red industrial machines, possibly crushers or sorters, and various pipes and structural elements of the facility. The lighting is bright, coming from overhead industrial lights.

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Trio of CRJ Machines help Lancashire Renewables save costs

Lancashire Renewables Limited, owned by Lancashire County Council, operate two mechanical biological treatment plants (MBT) in Thornton and Farington.

The plants take in municipal waste from Lancashire residents for sorting and treatment, allowing for the recovery of recyclable materials.

At their Farington facility, they processed an average of 900T of comingled material (plastic, paper, card, cans and mixed glass) per week. This material is processed through their material recycling facility, with around 200T of material being rejected / deemed unrecyclable per week.



Initially, the reject material was not reprocessed, and was sent out at a cost to a third party. In an effort to reduce costs, Lancashire Renewables needed to remove as much reclaimable material from this 200T as possible.

Lancashire Renewables approached CRJ for a solution, and Rob Symons our Sales Director visited the site to evaluate the waste stream and requirements of the client. To remove as much material as possible, a three-machine solution was proposed: A Doppstadt SM518, a Kiverco Picking Station and a Steelweld Eddy Current Separator.

In order to remove the fine fraction of sub 40mm, a trommel (Doppstadt SM518) was suggested. This fine fraction material is mainly glass and is bundled into a mixed grade glass product and sent out to an off taker.

The oversize from the trommel is then transferred to the picking station.

Two operatives pick out any incompatible materials such as WEEE waste, metals and large bulky items. An overband magnet then removes any smaller metal pieces as the remaining material leaves the picking station. The WEEE waste and metals are collected separately and sent out to an off taker.

The smaller metals from the overband magnet are inspected for quality and if good enough it is transferred to be bailed. If the quality is poor, the material is reprocessed separately through the MRF, baled and sent to an off taker.

The remaining material leaving the picking station is fed directly into the Steelweld Eddy Current Separator. The

Steelweld Strobe ECS uses powerful magnets to remove both ferrous and non-ferrous metals from the waste stream. The remaining non-metallic material is then transferred to another area where it is shredded and sent out as an RDF material.

The metals removed via the Steelweld Strobe ECS are assessed for quality, and if high enough, they will be bailed and sent out to an off taker.

As you can see in the video, the three pieces of equipment seamlessly integrate with each other, reducing the need for multi handling of material. By using this solution and separating out as much of the reclaimable materials as possible, Lancashire Renewables are able to reduce the amount of comingled reject waste they dispose via 3rd part processors, which reduces their costs.

<https://www.youtube.com/watch?v=kliJhQq8Qj8>



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CDE launches new 500tph Combo™ X900 at CONEXPO-CON/AGG

CDE, the industry-leading manufacturer of wet processing equipment for materials processors, has unveiled its new 500 tonnes per hour (tph) Combo™ X900 at CONEXPO-CON/AGG in Las Vegas, NV.

The X900 is the latest in CDE's range of revolutionary Combo™ all-in-one wet processing and water management solutions. The Combo™ was first launched in Europe at bauma in April 2019.

With an increased capacity of 500tph, the new Combo™ X900 is the largest in the series to date, as Kevin Vallyelly, Director of Engineering at CDE, explains.

"With our new Combo™ X900, we've doubled its capacity and created a next-gen solution for materials processors.

"The Combo™ X900 can process 500 tonnes per hour of feed material, including natural sand and crushed rock, containing unwanted clay, silt and other organic contaminants to extract quality in-spec washed and graded sand products that are market-ready straight from the belts."

As well as its increased capacity, the Control Cabin of the new Combo™ X900 has been repositioned to sit on top of the water tank.

"Plant and machinery are subject to major temperature extremes and fluctuations across different regions," he says.

"By positioning the Control Cabin on top of the water tank we're able to better protect the operational heart of the plant and offer a solution that can be adopted across all of the markets we operate in and where high and low temperature extremes are recorded."

Furthermore, where traditional washing systems typically have a separate standalone water tank, the new Combo™ X900 has integrated this into the design of the AquaCycle thickener tank resulting in a peripheral wall for water storage, which has significantly reduced the overall footprint.

It provides customers with almost total independence of water supply and minimises the requirements for costly site engineering due to its significantly smaller footprint which is, on average, 30% smaller than other traditional wash plant setups.

Vallyelly says, "Traditional washing systems would typically consume up to 15 times more water than that required for the Combo™ X900.

"Our best-in-class water management and on-board water recycling minimises costly water consumption and ensures up to 90% of process water is recycled for immediate recirculation through the closed-circuit system."

He adds, "The Combo™ X900 enables materials processors to wash more than 500tph with only 180m³/h, about the same amount of water that would be required to wash a truck."

With its single chassis design, the Combo™ X900 incorporates all essential processes – washing, dewatering, water recycling, and stockpiling – onto one single, interconnected and pre-assembled unit.

A plug-and-play system, it arrives on site pre-wired and pre-tested, ready to process material within just five days as a standalone plant or as part of a larger turnkey solution.

Its single chassis design means the Combo™ X900 is portable and can be rapidly deployed or relocated to remote locations with minimal foundations and pipework. Coupled with its significantly reduced footprint, the Combo™ X900 is also ideal for compact quarries in urban settings.

The Combo™ X900 offers a solution to the challenge of growing urbanisation.

By 2050, it's anticipated that nearly two-thirds of the world's population will live in urban areas. With this comes increasing demand on sand – which accounts for around 35% of the concrete mix – to support construction and infrastructure.

"The urbanisation challenge requires a technological and sustainable solution," says Vallyelly. "The Combo™ X900 maximises resource yield from natural sand and crushed rock feed, adding huge commercial value and minimising waste, and it ensures not one grain of value is lost to settling ponds."

Vallyelly continues: "We're supporting our customers to extend the life of their quarries through more efficient and sustainable technologies by extracting value in the form of manufactured sand from what was previously categorised as a 'waste' by-product, by ensuring maximum product yield from resources, and by boosting profitability through highly efficient processes."

For more information about CDE and the Combo™ X900, visit cdeglobal.com.



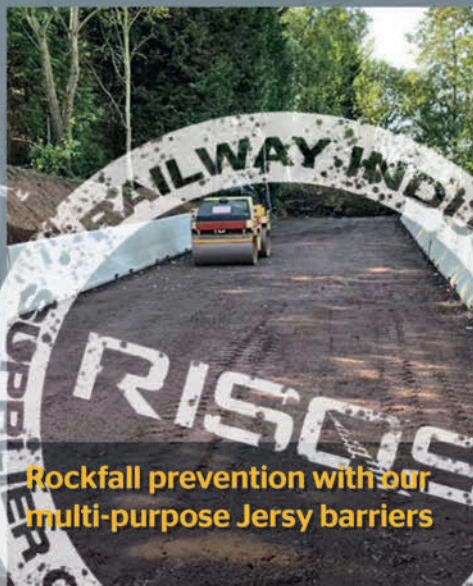
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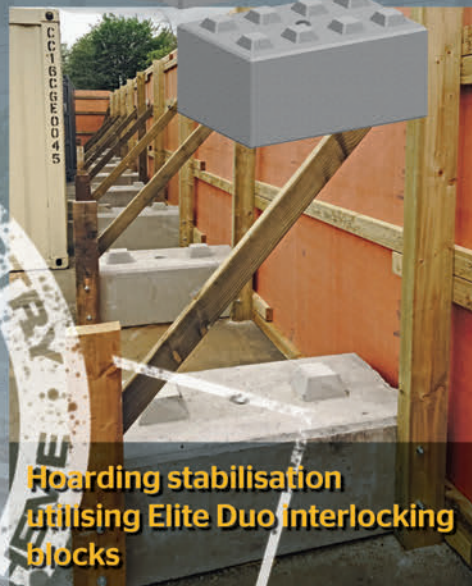
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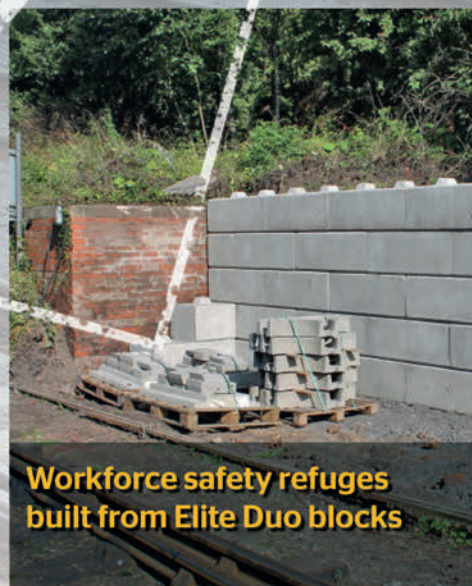
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Brimonn offer all kinds of screening surface to suit any type of mobile, static or trommel plant



Brimonn started life as a small sales office in the late 1980's. We had a warehouse full of ready-made Woven Wire Mesh and Piano Wires to suit the mobile plant that was around at the time. There weren't many mobile screeners around back then. Extec, Powerscreen and Finlay being the main mobile plant manufacturers at the time, each with just a few models, so it was easy to hold stock for most customer's needs.

In the 1990's things started to change, as they do. More machine manufacturers and models meant too many different sizes to be able to hold enough stock to cater for everyone's needs. It became clear we needed to start manufacturing the mats to order, so we got a bigger factory unit and started making the screens to suit the many variants of screening plant on the market. The cutting and folding operation meant we could offer next day delivery and evolve with the market as it grew.

Today, we offer all kinds of screening surface to suit any type of mobile, static or trommel plant. The industry has expanded so much since we started out and as a manufacturer it is up to us to keep pace with the times. Screening plant is not just the purview of the Quarries and the Asphalt Plants, now we have Demolition and Waste Recycling and Reclamation, Earthworks and Landscaping companies and so many more industries that use our products. It is more important now than ever to offer quick deliveries and competitive prices, and with our sales staff from the 1990's still with us today, there is many years of industry knowledge to draw upon, should our customer's need it. Please visit our website at www.brimonn.co.uk or contact us on 01902 632505 or via sales@brimonn.co.uk

Diesel & AdBlue storage solution for Brett Aggregates

Ace Plant manufacture the 'Bundie Bowser' product and offer one of the largest ranges of fully bunded diesel and AdBlue bowsers available in the UK.

The company has recently supplied a 5000L Diesel / 1000L AdBlue Static Bundie Bowser to Brett Aggregates.

Brett Aggregates are currently utilising this Bundie Bowser at their Wembley rail head.

This rail head supplies Capital Concretes' Wembley plant which has a capacity of 300m³/hr (wet only) and is located next to the Neasden Rail Siding. Making full use of this location, most of the plant's raw materials are bought in by train which reduces the number of vehicle movements on the road - decreasing the site's carbon footprint.

This static Bundie Bowser acts as a service centre for the site—safely housing the plants' Diesel & AdBlue ready to be used in their machinery and equipment.

This Bundie Bowser is fully lockable and fully bunded making it both safe against unauthorised access as well as for the environment. Skid mounted and complete with lifting points, it can also be transported and positioned safely using a crane or suitable telehandler.

Under the lid you will find two 110V pumps (one for diesel, one for AdBlue) and hose reels in order to easily manage longer lengths of hose.

The AdBlue tank is manufactured from stainless steel and is fitted with a TODO coupling for quick fill purposes whilst the diesel tank is manufactured from 4mm steel and is complete with two 2inch caps for filling and venting.

"This Bundie Bowser is a perfect addition to the plant as both our Diesel and AdBlue is stored in one safe and secure place" – Brett Aggregates' Operations Manager (London & Home Counties)

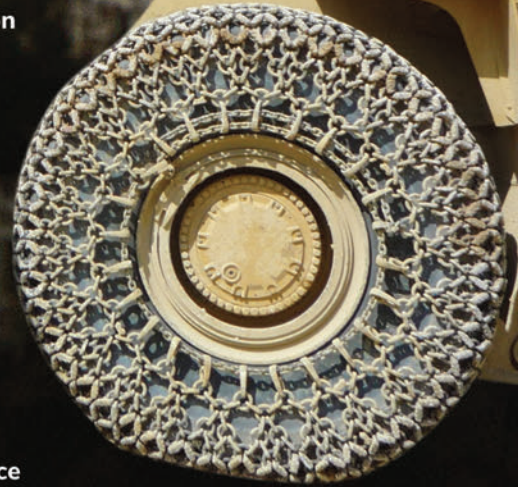
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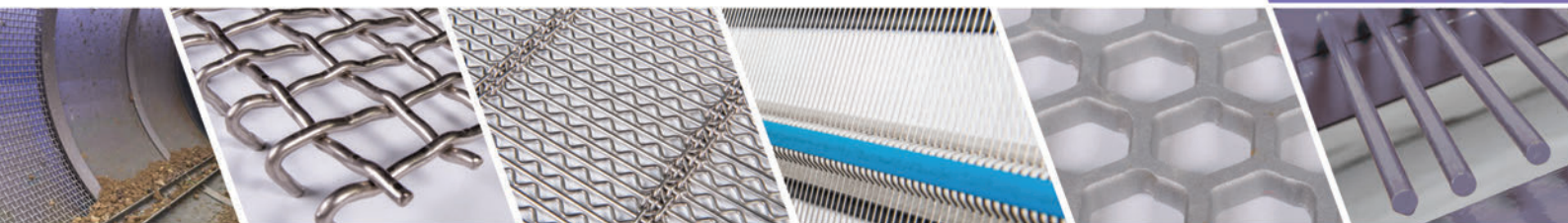
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Effectively Managing Mobile Plant Equipment



The number of serious injuries reported to the HSE involving mobile plant equipment continues to increase with over 10% of fatalities caused by contact with machinery according to 2018/2019 RIDDOR figures, but what is the reasoning behind this? Is it due to operators not using equipment correctly, have they received inadequate training, have experienced operators become complacent, do they lack respect for site rules and procedures or is there just a lack of competent supervision onsite?

We believe that all the above at some point contribute to an accident or incident onsite. As the largest provider of equipment operator training in the UK, Mentor looks at one of the above contributing factors – Management and Supervisor knowledge – and suggest opportunities for change.

Creating a good, safe and effective operation must come from higher management. Managers and supervisors must lead by example and drive positive strong attitudes onsite; being visible and approachable is key. As a manager or a supervisor, you need to have grounding knowledge of your complete site operation but when it comes to the operation of mobile plant, does every manager and supervisor feel comfortable to review and monitor the operation of such equipment?



In some cases, most certainly not. There is an increasing recognition of the importance of training operatives to use mobile plant to an accredited standard, relevant to a specific industry and operation but, once they are trained, who then cultivates and promotes consistent safe and effective operation?

Even the best-trained and most safety-conscious teams are at risk if managers and supervisors aren't equipped to proactively encourage best practice and recognise where complacency may have started to creep in. So how can Managers and Supervisors better prepare themselves to manage mobile plant?

1) Understand the law

As a manager and supervisor – it is important to understand how regulation effects and applies to you. In particular Section 36 of the Health and Safety at Work etc Act – Offences Due to Fault of Other Person. This law emphasises that although the manager may not be in the driver's seat and operating the equipment their self, they must action anything they deem as unsafe e.g. faulty equipment. If an operator has an accident and it was found that faulty equipment was overlooked by a manager, the manager could then face the consequences.

2) Check your knowledge and that of your supervisors

Are you and your supervisors confident that they understand how to effectively supervise and manage the use of mobile plant operators? If the answer is no and you are not confident that poor operation could firstly be recognised and then remedied, seek further support from an expert in the field - this could be your training provider, the equipment manufacturer or your SHEQs team.

3) Be visible

This is not just you as a manager but also your supervisors and importantly your rules, procedures and expectations. Make them clear to see and easy to understand and follow – make sure everyone knows what is required and expected to ensure paramount site safety.

4) Question?

Do you know what equipment you have onsite and how it is used? Does it have multiple attachments to complete different tasks? Is everyone trained to use the attachments? Is there a mobile plant standard and policy for the business and does this standard cover all types of equipment? How do you segregate mobile plant from other site traffic? How do you make people aware of this? What do you do for contractors either operating plant on your site or working in the vicinity of it?

There are many questions that you should be asking to feel confident that your site is functioning to maximum safety and efficiency.

5) Operator Training

Make sure operators receive accredited training. It sounds simple but all too often we hear of unrealistic course lengths, inappropriate conversions from one equipment type to another and varying delegate to instructor ratios. Always ensure you have plans in place to cover the three types of training: basic, job-specific and familiarisation. It is important to update site specific training to your policies and familiarises your operatives when equipment and processes change.

6) Be prepared to make changes

Quite often following an incident, it has been found that several near misses in similar circumstances have occurred previously, but then have been overlooked. This is something that must be addressed to help minimise the number of accidents that happen in the industry – never be concerned about challenging unsafe and poor behaviour onsite. In some cases the individuals may need further training and support but may not feel comfortable asking.

At Mentor the service to our customers does not start and end at the delivery of training, our team are keen to ensure that our customers have the support that they need pre and post training. As part of our bid to reduce accidents and incidents in the workplace and provide relevant and high-quality training to our customers, we have worked closely with experts in the field to develop training courses that do exactly this including Managing Mobile Plant Operations.

For more information about how we can implement our Managing Mobile Plant Operations course into your business, speak to our expert training team today! Call us on 01246 386900.

Breedon finds the missing link

Breedon Northern has invested in the largest Terex Finlay tracked conveyor currently available from Finlay Scotland. The TC-100 is being used as a link conveyor in a static aggregates production plant and is already delivering big savings.

Deep in the heart of Breedon Northern's Daviot Quarry, which is located just seven miles south of Inverness, this 100ft conveyor has fast become a vital part of the production process. Providing a link between two static sections of the plant, the TC-100 has slotted in perfectly, doing a job that was previously completed by a loading shovel.

tracked unit up to the TC-100. Capable of handling 600 metric tonnes per hour (mtpH), the TC-100 has the capacity to prove a useful addition to any aggregate production facility. Capable of being used as a link conveyor, as in this application at Daviot, or as a stockpiling conveyor, the potential efficiency benefits are significant whatever the application.



A perfect fit for the job

This section of the production process starts with an Allis Chalmers 11-36 secondary cone crusher, from which the material flows into a Terex Finlay 883+ heavy duty screener. The mid-size fraction is then fed onto the TC-100 conveyor, with oversize material recirculated thorough the 11-36. At the end of the 30m conveyor, which is fitted with a chevron belt, the material is dropped into a feed hopper and then into a static Metso G158 cone crusher before being separated into saleable products by two Terex Finlay 694+ inclined screeners.

The TC-100 is the largest conveyor manufactured at Terex Finlay's Omagh facility in Co. Tyrone, Northern Ireland. The comprehensive Terex range of conveyors goes from a 65ft





Do less, earn more

Figures from the extensive testing carried out by Terex Finlay suggest that in a typical application where a crusher is producing 400mtph, it would only take approximately 17 minutes for the discharge height of the crusher to be reached. A loading shovel would then be required to clear the stockpile continuously from this point. However, using a TC-100 set-up at 24 degrees, with a 12.5m discharge height, it would take over 14 hours of production until the material would need to be cleared.

In the right environment, it is easy to see how this could result in a huge saving in the amount of times material is handled before it finally goes out of the gate. In an industry where production costs are continuously increasing and margins are being squeezed, this simple but effective innovation could be the key for many sites to drive down their cost per tonne.



Getting the right answer

The Terex Finlay TC-100 conveyor range also includes a 75ft option with both high and low-level feeder options and a TR-75 radial conveyor. The radial conveyor is capable of producing a 270-degree stockpile, handling a 500mtph throughput with ease.

Alan Scott, Daviot Quarry Manager. Said: "The TC-100 has been with us for a few weeks now and it has really helped tidy up our process. When it first arrived, I was impressed by how substantial the build of the machine is. It hasn't missed a beat yet and the signs are good for the future.

"We had previously been using a loading shovel to move the material from the first cone across to the feed hopper, but the TC-100 has allowed us to release that shovel onto other tasks and at the same time simplify our operation."

Tom McNeil, Managing Director of Finlay Scotland, added: "Our longstanding relationship with Breedon Northern has always been based on us working to provide them with new technology that can help them boost their production and improve efficiency. As soon as Terex Finlay told us about the range of conveyors becoming available, it was simply a case of using our knowledge of their site to advise where a conveyor could improve their process."





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Reliability. After 11 years of quality crushing with R900, it's time for a larger Rockster impactor



Rockster track-mounted mobile impact crushers R900 without a screening system and R1100S with a screenbox and return/stockpile belt in a dolomite quarry in Kislovce.

Slovenian construction company AGM Nemec purchases its second Rockster impact crusher. "For over 11 years, we were happy with our first R900 impactor and due to our business growth, the R1100S was an obvious choice."

Primoz Nemec started off as an independent contractor in 1994 with only one excavator. After almost a decade of hard work, perseverance and business expansion he founded in

2003 what is today known as AGM Nemec. With their main office in Sedrež, Laško, located halfway between Maribor and Slovenia's capital, Ljubljana, AGM Nemec is primarily a construction company. With more than 130 employees, an extensive fleet of over 100 machines and motor vehicles suitable for all sorts of construction jobs, one quarry in Boben, Hrastnik with a concrete production plant as well as another dolomite quarry in Kislovce, AGM Nemec is one of the construction leaders in Slovenia.

Convinced with the ease of operation and the hydrostatic drive

It was exactly in 2008 when AGM Nemec purchased their first Rockster R900 track-mounted mobile impact crusher from the authorized Rockster Dealer Skalar d.o.o.. "After a short testing period, we were convinced that the Rockster impact crusher with a hydrostatic drive and a low transport weight is exactly what we were looking for. From the aspect of our machine operators, the crusher is very easy to operate and thanks to the large engine openings very simple to service and do all the necessary maintenance. It has been mostly used as a primary crusher in our quarry for processing dolomite - rather soft and abrasive rock - to sizes from 0/4, 4/8, 8/16, 16/32 as well as 32/x," says Maja Gerčer Špitalar, Managing Director of AGM Nemec. She continues: "The R900 impactor was an important addition for the growth of our construction sector and it enabled us to take on other projects where crushing of asphalt or recycling of concrete on the spot was a must. I have to say that another reason why we acquired larger Rockster machine is because of the fast service provided by the Rockster dealer Skalar d.o.o. The parts were always delivered on time and great technical support just adds to a more fluid workflow."

30% increased production and precisely defined cubical final product

As the size of construction projects grew, the need for AGM Nemec to purchase a larger impactor was also needed in order to properly grow with the market needs. They pretty much took the same route through Rockster's Slovenian dealer, however this time no testing was necessary. AGM Nemec purchased Rockster's R1100S impact crusher and had it delivered straight to the quarry. The crusher is equipped with an optional hydraulically lowerable screen box and the double-functional return and/or stockpile belt. The impactor sure surprised with its output and the ability to screen and precisely define final end product. The hydraulically swiveled

stock-pile conveyor enables for additional product size, which adds to efficiency of the crushing process and being able to get the most out of the machine. Reliable network and the very throughput of the larger crusher are exactly the two main reasons why R1100S stayed at the quarry for good. It will mainly crush dolomite with 0-500 input size for the purposes of concrete production at the quarry. "It was very easy for us to decide since we have had Rockster impactor for more than 11 years. Our operator knows how easy it is to operate a crusher with a hydrostatic drive as well as how to fine tune the adjustment gap and get exact desired final material. Thanks to the intuitive, electrical control function on the multifunctional display, the set-up of the crushing gap adjustment, in comparison to R900, is even easier to define, which allows for precisely controlled size of the end-material. The Quick Start-Stop function and the vibrating chute with load-dependent speed control add to the efficiency of the machine and decrease setup- and downtime. With the additional screening system, it will enable us to broaden our services which means crushing and screening on-site. We will use the screen system mainly for production of 0-16 and 0-32 final product. Sporadically, the R1100S, will be required for recycling demolition debris such as reinforced concrete as well as asphalt," says Mrs. Gerčer Špitalar.

Whether processing dolomite in a quarry, crushing asphalt for new roads or recycling concrete to be reused in future buildings, the impact crusher R1100S is already a valuable addition to a wide range of services that the AGM Nemec is able to provide. "To grow together with our customers is a special feeling. When a company, with over 10 years of experience working with a Rockster machine, decides to purchase another crusher from us, it can't get any better. This is not only a proof for us that the machines last long yet another confirmation to strive and deliver top products to all corners of the world," says Rockster's Sales Manager & AO, Norbert Feichtinger.

R1100S – crushing and screening in one pass was an important purchase criterion.



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Bullimores further invest in Hitachi



A family owned and operated company, Bullimores commenced trading in 1907 as hauliers and coal merchants. They became quarry owners in the sixties, with diversification into the plant hire business in the eighties and more recently a skip hire business in the nineties.

Today the company operate two limestone quarries: Collyweston near Stamford and Woolfox near Oakham; both of which have seen investment in the Hitachi brand of wheeled loaders and excavators.

Collyweston was leased by the company in 1980 and is approximately 200 acres with 5 years of reserves currently remaining. It supplies 250,000t/annum of a sub-base aggregate to contractors in Peterborough, Corby and Kettering where it is generally used for new warehouses and some housing,

It's a very busy operation which operates between 52-60 hours per week and much depends on reliable equipment that process the material on a daily basis. Blasted material is crushed and screened and stockpiled when it is then handled by two Hitachi wheel loaders

Nick Bullimore – Director, takes up the story, "We invested in the Hitachi brand because of their reputation and took our first Hitachi ZW310-6 at Collyweston two years ago, after a positive demonstration which included a very attractive price and warranty package.

"We do have a large number of smaller Hitachi machines in our plant hire business so when we needed a second machine some months later, we were offered the same package and because of our positive past experiences with the brand it wasn't a difficult decision!"

Both machines were supplied with a service package and are serviced every 500 hours. Both are fitted with L5 tyres which although a harder ride completely eclipses the wear rate on L3 tyres.

The ZW310-6 wheeled loader:

Incorporating Hitachi's unique technology that has been specially developed for the ZW-6 medium wheel loader range. The ZW310-6 is extremely versatile for a variety of industry solutions and offers exceptional levels of performance without compromising on efficiency, due to low levels of fuel consumption.

This model underlines Hitachi's unwavering focus on manufacturing high quality, reliable and durable products that are built for reliability in challenging working conditions.

Driven by technology:

Driven by technology the Hitachi ZW310-6 offers reduced maintenance with a new Stage IV-compliant engine which contains a high-volume cooled exhaust gas recirculation (EGR) system, a common rail-type fuel injection system and a diesel oxidation catalyst (DOC) without DPF. This helps to reduce fuel costs and maintenance requirements.

Fewer emissions are achieved by an after-treatment device consisting of a diesel oxidation catalyst (DOC), urea mixing pipe, SCR system and silencer. This advanced technology is designed to reduce emissions as well as noise levels.





Optimum performance on the ZW310-6 is achieved by a multifunctional LCD colour monitor that shows useful information at a glance, such as fuel and urea levels, oil temperature and power modes. It ensures an optimum performance and easy maintenance. It also includes the display for the easy-to-use rear-view camera, which enhances visibility for a safe operation.

Additionally, an optional auto shutdown feature helps to prevent fuel wastage, as well as reduce noise levels, exhaust emissions and NOx levels of the ZW310-6-wheel loader.

Hitachi's Global e-Service allows ZW310-6 owners to monitor their Hitachi machines remotely via an Owner's Site (24/7 online access) and ConSite (an automatic monthly report). These help to maximise efficiency, minimise downtime and improve overall performance.

Nick, continued, "They are extremely good machines with a great 'break-out' force. We have had no major issues and our operators love them."

The Woolfox operation:

Some short distance away is Bullimore's second operation at Woolfox quarry. Here a 100,000t/annum of sub-base aggregate pass over the weighbridge. Originally material was removed by drilling and blasting but this has now been superseded by the utilisation of a Hitachi ZX490LCH-6 excavator.

Nick, added, "Although this operation is smaller to Collyweston it made sense to invest in the Hitachi ZX490LCH-

6 excavator which can easily handle the material and feed into a small crushing and screening train.

It illustrates the faith we have in the brand and the fact that we would quite happily invest in more if and when needed."

The ZX490LCH-6 excavator:

The ZX490LCH-6 has been created to offer the highest level of performance, but without compromising on the increasing demand for operational efficiency. Incorporating innovative and unique Hitachi technology, it delivers lower emissions and running costs, while offering higher levels of reliability.

The large Zaxis-6 excavators reinforce Hitachi's reputation for the quality of its engineering and the durability of its products. The ZX490LCH-6 is the epitome of reliability, with incredibly versatile features that highlight its suitability for a variety of challenging working environments.

Unquestionable quality:

Continuous development of the Zaxis large excavators has ensured that Hitachi machines like the ZX490LCH-6 keep pace with the latest emissions regulations, and also set new industry standards in terms of performance, reliability, comfort and safety.

Reduced emissions are again achieved by a selective catalytic reduction (SCR) system developed by Hitachi injects urea into exhaust gas to reduce NOx from emissions. This invaluable innovation not only helps the environment, but also complies with EU Stage IV emission regulations.

Long-term cooling and low-noise performance of the ZX490LCH-6 is taken care of by a new high-quality sealant around the cooling package and acoustic materials on the upper structure prevent deterioration caused by heat.

Safety at work is always at the top of the agenda and the ZX490LCH-6 cab complies with TOPS and ROPS (tipover and roll-over protective structure) and CRES V (centre pillar reinforced structure) safety regulations. It is also pressurised to suppress the penetration of air and dust from the job site.

Operator comfort is well catered for in the interior of the spacious cab which has been designed with comfort in mind. Features include a fully adjustable seat, ergonomic controls and a drinks holder that maintains the temperature of drinks using warm or cooled air from the air conditioning system.

Bullimore's and Hitachi invest in the future – a great team both with an excellent reputation!

Liebherr R 914 compact excavator paving the way to success for Derbyshire-based Brad-Pave Ltd

Civil engineering contractor, Brad Pave, returned to Liebherr for a replacement for its existing 2015 R 914 compact excavator and is thrilled to have recently taken delivery of a new Tier 4-engined model in a sparkling white paint finish and fitted with the newly-launched Moba GPS system.

Brad Pave, owned by Paul Bradshaw, specialises in infrastructure operations including deep drainage and road building work. The contractor operates across the UK and works with a number of blue-chip customers, its most recent project is a new housing project near Spalding, Lincolnshire.

Second time around, Brad Pave has chosen to go with a superior specification that has upped the machine's weight to just shy of 17 tonnes. The long carriage sits on a pair of 700mm-wide pads which hold up the machine on some challengingly soft ground. The R 914's undercarriage is also equipped with a sturdy blade which is designed primarily for steadying the machine but in Brad-Pave's case, has proven particularly useful for spreading stone on a number of road construction projects. The Liebherr is also fitted with a 4-cylinder, 122hp Deutz diesel mounted longitudinally on the offside of the upper structure. Similar in design to the material handler, the R 914 compact's huge gull wing canopy allows for simple and easy access to the engine, hydraulic and cooling systems. The design then puts the access to the upper structure through a door behind the almost the full-sized cab.



Commenting on his experience of the new machine, Paul Bradshaw, comments: "For me, the choice of a smaller replacement was always going to come from Liebherr. I did have a price for an alternative supplier which admittedly was slightly less than Liebherr and whilst the machine was impressive, I couldn't be tempted away. I have been particularly impressed with the Moba X-Site 3D GPS system – it's very easy to use, intuitive and by far one of the most cost effective on the market. GPS is especially key for us as we've don't have a base station on site and therefore all the data and updates are sent via the internet."

Brad-Pave is one of the first end users of the Liebherr's Moba system in the UK. The Moba X-Site Pro brings a wealth of benefits including improved quality of work under conditions with restricted visibility, savings on time and materials, reduced fuel consumption and increased site safety.

New Volvos venture to the Outer Hebrides

Macaulay Askernish Ltd, a privately owned civil engineering contractor headquartered on the island of South Uist in the Outer Hebrides, has taken delivery of two new Volvo EC140E excavators for a dedicated 21 kilometre utilities contract on Stornoway.

The new arrivals follow hot on the heels of a larger EC200E ordered by the company in the summer – it being the first of its kind to arrive in Scotland. “We’ve been operating Volvo excavators since 2012 and have found them to be very reliable and productive machines. They are well built and robust, which are essential characteristics for working in this part of the world,” comments Operations Manager Callum McDowel. “Additionally, we have developed a strong relationship with Volvo and SMT GB, who understand our requirements. They look after us very well from an after-sales perspective, so these are positive reasons for sticking with the Volvo brand,” he continues.

All three machines are currently working on Stornoway. The EC200E is currently working on various civil engineering projects, whilst the two new EC140Es have been deployed on a dedicated 21 kilometre utilities contract, which will take two years to complete. “Both sizes of machine fit in well with the typical contracts we undertake,” says Callum. “In particular, the larger EC200E has plenty of capacity for general site clearance and muck shifting duties.”

Both machines are powered by a Volvo Stage V compliant 4 cylinder engine, developing 122 and 156 nett hp for the EC140 and EC200 respectively. All of the machines are also fitted with an ‘Integrated work mode control’, which significantly reduces fuel consumption. This system provides



high efficiency, rapid dig cycles by ensuring the maximum possible hydraulic horsepower available is delivered at a constant engine speed, under varying load conditions. In addition, boom and arm geometry provide highly competitive digging forces and lifting capacities, which makes for faster work cycles. Hose rupture valves are also fitted as standard to the boom and dipper cylinders, as are quick fit hydraulics and a hammer/shear service.

Founded in South Uist in 1949, Macaulay Askernish Ltd is a privately owned family-run Civil Engineering Contractor operating throughout the Western Isles and Highlands. The company is fully accredited in Quality, Health & Safety and Environmental procedures. With an enviable reputation as a resourceful contractor, the company undertakes a wide range of civil engineering construction and infrastructure projects.

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.



DX380LC-7 Completes Doosan 30-40 t Stage V Excavators



With the launch of the new DX380LC-7 40 tonne model, Doosan has completed the company's 30-40 tonne family of Stage V excavators. Together with the new Stage V DX300LC-7 30 tonne and DX350LC-7 36 tonne models, the DX380LC-7 offers an unmatched combination of high performance, operating features, fuel efficiency, reliability and durability in this class.

The new Stage V excavators build on the very successful design of the previous Stage IV machines. They introduce major enhancements in operator comfort, machine controllability, productivity, uptime and return on investment, with a strong focus on low fuel consumption, increased power, robustness and versatility.

With these new 30-40 tonne machines, Doosan has tried to ensure that productivity and environment protection are truly compatible. The DX380LC-7 is powered by the Scania DC09 Stage V compliant diesel engine, providing 240 kW of power at 1800 RPM. There are now four power modes available on all three machines, which help to simplify the operation of the new excavators compared to the more complex choice of eight power modes and SPC combinations in the previous generation machines. The operator is able to set the power mode (P+, P, S or E) in both one-way and two-way working modes.

Doosan D-ECOPOWER Technology

In common with the DX350LC-7 crawler excavator, the DX380LC-7 features Doosan's innovative D-ECOPOWER technology, providing operators with higher productivity and lower fuel consumption per hour, as well as smoother controls. The D-ECOPOWER technology focuses on the role of the hydraulics system and demonstrates Doosan's continuous iteration of all the processes and components utilised in the company's new generation products to achieve unprecedented levels of diesel energy efficiency.

Doosan's D-ECOPOWER technology utilises an electronic pressure-controlled pump within a closed centre hydraulic system to accomplish increases of up to 26% in productivity and up to 12% in fuel consumption improvements, depending on the mode selected. A closed centred main control valve minimises pressure loss, while the electric pressure-controlled pump manages and optimises engine power more effectively.

The D-ECOPOWER system uses nine sensors to detect the amount of hydraulic oil necessary to accomplish a specific task and precisely meter the amount of oil required rather than continuously forcing a fixed amount of oil through the system, thereby improving efficiency. Software is utilised to electronically reproduce the full benefits of an open centre hydraulic system with very little energy loss. The hydraulic system and engine horsepower are fully optimised and synchronised, further reducing losses within the system.



Improved feedback to the operator through the joystick results in improved machine control and less operator fatigue. The acceleration and deceleration of the excavator workgroup functions are smoother, allowing operators to perform repetitive swinging and digging motions with less jerking movements.

Increased Comfort and Controllability

Already excelling in spaciousness and ergonomics, the new cab in the DX380LC-7 model takes operator comfort and ease of operation to unheralded levels. Like the other two Stage V models, the cab has a new high quality seat and offers more features as standard than other machines on the market, ensuring super controllability and high precision in all applications.

Key new features in the cab

- New 8-inch touch-enabled colour LCD gauge panel, providing more information via a 30% larger screen
- Stereo system integrated in the gauge panel
- Keyless start system
- Improved interior cab design
- Ultrasonic sonic detection of obstacles (option)
- LED lights (option)
- Side protection (option)
- Air compressor (option)



As standard, 360° cameras provide full visibility around the excavator and allow the operator to see a top-down view of the area outside the machine. The camera array comprises a front camera, two side cameras and a rear camera. The camera display is separated from the gauge panel.

The new DX380LC-7 model is factory-installed with Doosan's state-of-the-art DoosanCONNECT wireless fleet monitoring

system. The DoosanCONNECT system offers a web-based fleet management solution which is very useful for monitoring the performance and security of machines and promoting preventative maintenance.

For more on Doosan construction equipment, visit the website: www.doosanequipment.eu

Brief specifications for the Doosan DX300LC-7 excavator with 3.1 m arm

- Operating weight: 30.3 tonne
- Bucket capacity: 1.75 m³
- Digging depth: 7305 mm
- Digging reach: 10725 mm
- Digging height: 10325 mm
- Overall width (with 600 mm shoes): 3200 mm
- Height: 3050 mm
- Overall length in travel position: 10605 mm
- Tail swing radius: 3230 mm
- Digging force over bucket (ISO): 18.9 tonne
- Digging force over arm (ISO): 13.2 tonne
- Travel speed: low range – 3.0 km/h
high range – 5.5 km/h
- Engine (SAE J1995 net): 6-cylinder Doosan DL08 Stage V, 202 kW (271 HP) at 1800 RPM

Brief specifications for the Doosan DX350LC-7 excavator with 3.2 m arm

- Operating weight: 36 tonne
- Bucket capacity: 2.32 m³
- Digging depth: 7540 mm
- Digging reach: 10980 mm
- Digging height: 10325 mm
- Overall width (with 600 mm shoes): 3200 mm
- Height: 3390 mm
- Overall length in travel position: 11350 mm
- Tail swing radius: 3530 mm
- Digging force over bucket (ISO): 25.9 tonne
- Digging force over arm (ISO): 18.9 tonne
- Travel speed: low range – 3.5 km/h
high range – 5.7 km/h
- Engine (SAE J1995 net): 6-cylinder Doosan DL08 Stage V, 209 kW (284 HP) at 1800 RPM

Brief specifications for the Doosan DX380LC-7 excavator with 3.95 m arm

- Operating weight: 40.2 tonne
- Bucket capacity: 2.32 m³
- Digging depth: 8165 mm
- Digging reach: 11930 mm
- Digging height: 10940 mm
- Overall width (with 600 mm shoes): 3350 mm
- Height: 3210 mm
- Overall length in travel position: 11310 mm
- Tail swing radius: 3530 mm
- Digging force over bucket (ISO): 25.9 tonne
- Digging force over arm (ISO): 16.0 tonne
- Travel speed: low range – 3.0 km/h
high range – 5.4 km/h
- Engine (SAE J1995 net): 5-cylinder Scania DC09 Stage V, 240 kW (326 HP) at 1800 RPM

Elite legato blocks star in new bunker facility build

RSG Structures Ltd were recently contracted to undertake construction of a new bunker facility for a client in Stoke, which is part of a larger contract involving demolition and rebuild. The bunker was to have very durable 6.4m high walls and was being built onto an existing yard with an undulating concrete surface. Not wanting to break through this concrete and create more issues, the solution was an in-situ plinth with concrete blocks on top, which RSG have used many times.

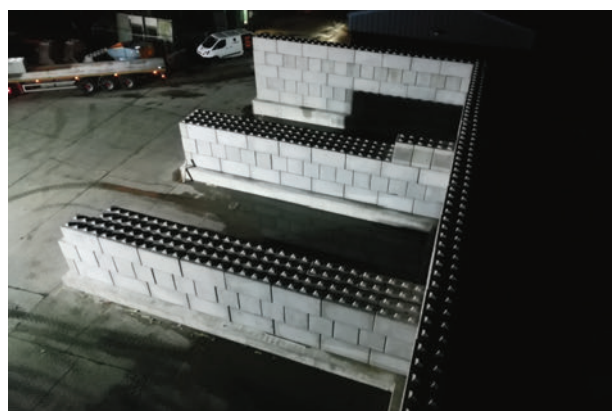


The plinth acts in two ways, spreading the load of the walls above and also levelling up any change in levels so the walls sit

straight and true. Elite precast Concrete's Legato blocks were a perfect choice for this type of construction, being fast build and cast from high strength concrete are exceedingly hardwearing.

RSG Director Gareth Neale explains why RSG use Elite Legato blocks, "We know what we are working with when we use Legato blocks from Elite. There are other block manufacturers out there, but we personally wouldn't touch them, as you don't know what's arriving on site. Legatos don't have any recycled materials in them which is critically important because when I'm building 6-7m high walls and then sticking a building on top, I want to know what the blocks are made of and what strength the concrete is.

"Everything we build is fully engineered and so we need to know what we are working with and my engineer needs to know what he is designing with. With a build like this, timing is critical with deliveries and also having the right blocks on each load, otherwise we end up with a site full of blocks we can't use yet. We had just under 600 blocks to install of



varying sizes in many different positions, but as always, working with Elite was simple and easy. The loads arrived when we wanted them and with the blocks we wanted on them. Both Elite and the blocks are always a joy to work with and the result is what you see in the video, a great team effort by all involved"

For further information on Elite's Legato blocks (or anything else from Elite's range) please email sales@eliteprecast.co.uk or call 01952 588885 or visit www.eliteprecast.co.uk

For further information on RSG Structure's extensive range of services please email gneale@rsgstructures.co.uk or call Gareth Neale on 08452 or visit www.rsgstructures.co.uk



Reco relies on Liebherr's 'concrete' reputation

Following a robust and highly competitive procurement process Kent based RECO ReadyMix (part of the TW Services) has chosen and installed the Liebherr Mobilmix 2.5-F concrete mixing plant at its depot in Sandwich, Kent.

Capable of producing up to 115 m³ per hour, the plant includes a bank of four aggregate containers with two that are split. These containers can hold a variety of products, which are used to batch different mixes. Material is weighed and fed into a DW 2.5 twin-shaft mixer via a simple rope operated skip. The twin-shaft 2.5 m mixer is capable of batching a maximum of 2.67 m³ at a time. Heavy-duty mixer tools inside the body are driven by a pair of 75 kW motors, both mounted on the same side of the mixer for ease of access when servicing. Liebherr's own energy efficient planetary gearboxes reduce the plant's energy requirements, ensuring a low production cost per mix.

Liebherr's modular design meant that the Mobilmix 2.5-F concrete mixing plant was delivered and constructed in a matter of days. As the whole system is pre-wired, it only required linking together and a connection to the power and water networks on the site. Whilst the Liebherr solution was not the cheapest, Reco's past experience with Liebherr's equipment and service, which includes a number of dozers and material handlers, swung the deal.





To complement the batching plant, Reco Readymix has also purchased five HTM 905 mixing drums. Capable of handling a load of 8 m3, the drums have been supplied with Liebherr's Litronic EMC control system. This intuitive system enables the operator to single-handedly and accurately control the drum rotation direction, ensuring the correct amount of material is delivered. Thanks to the system's constant speed drive function, which reduces drum revolutions during each delivery, drum service life is extended. The low weight of the drum means that a larger payload can be carried without any reduction in the build quality and longevity of the drum and drive unit. Liebherr's generation 05 mixer series has benefitted from a number of recent upgrades designed to aid the driver: the swivel chute is now 80 mm higher to allow a better flow angle for

the outgoing material and the ladder platform has been enlarged with a new, lightweight aluminium ladder replacing the older steel version.

Reco Readymix General Manager and Director, Jay Preece, has not looked back since his purchase of the new batching plant and drums: "RecoPro's growth strategy has been achieved by a concentrating on reliability and our reinvestment in new facilities, vehicles and machinery. With an extensive range of modern machinery and equipment already in our fleet, the Liebherr purchases have fitted in seamlessly. As with the batching plant, we looked at several drum alternatives already in operation around the south east and the general consensus was that Liebherr was the "Rolls Royce" when it comes to drum mixers and concrete technology in general. It's simple: We trust their products and we trust their backup."



Flexible Warehousing Solutions from NP Structures

Flexible Warehousing

Flexibility, capability and dependability are key factors when looking at warehousing solutions. One answer is modular designed semi-permanent structures. NP Structures is a UK manufacturer of PVC-clad structures, and the company has seen a huge increase in the demand for adaptable warehousing.

With warehouse space being at a premium, demand is high for cost-effective storage space that meets the needs of fast-paced operations. NP Structures' Marketing Manager, Danielle Palfreeman commented "NP Structures storage solutions provide an alternative and sustainable alternative to traditional warehousing units. To keep up with this ever-evolving environment, a semi-permanent fabric structure

helps save on costs and is able to adapt to the changing requirements of the customer. Our semi-permanent structures have never been more relevant to businesses wanting to expand, but are uncertain about investing in large-scale warehousing developments or fall foul of the rising cost of rent sparked by the lack of warehousing space in the UK. PVC buildings are often overlooked as a viable option for commercial storage, improvements in design and materials means that our structures conform to BS standards and, although are considered semi-permanent, have been designed to last 20 years +."





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Relocate, Extend, Reduce or Modify Easily

Flexible warehousing provides businesses with many unique advantages. The benefits of semi-permanent structures include fast design, manufacture and construction, with the flexibility to be adapted, modified, extended or relocated if needed. This allows customers to adapt quickly to change.

NP Structures specialise in the design and manufacture of rack-clad buildings, where the racking forms part of the structure of the building, maximising the concept of space utilisation for a fraction of the cost of traditional warehousing solutions. Innovative design features and high-quality materials allow for optimum protection from the elements, their patented Stripfix® tensioning system allows the PVC fabric to be highly tensioned in 2m strips creating a drum-skin tight membrane for a strong, clean finish.

Unique Design Features For Faster Installation

NP Structures' cantilever rack-clad buildings boast many benefits for businesses looking to extend their operations. Heavy-duty cantilever racking forms the structure of the building and features a Quick-Lock installation system, designed by in-house structural engineers to SEMA standards using top of the range CAD software. NP Structures' cantilever arms feature a boltless slot-in assembly, allowing arms to be installed or adjusted within seconds without equipment. The boltless horizontal insertion into the column avoids contact with adjacent storage levels when adjusting arm heights, reducing remodelling and assembly downtime. To avoid damage to the racking or stock, the cantilever arms are designed so that on impact the height-adjustable arms pivot horizontally or vertically. Added security features ensure the arm cannot be accidentally disconnected, the design of the locking system will not allow the arm to disengage until it has been lifted above 45 degrees.

Palfreeman added, "We have been designing steel structures for over 50 years, we have answered customer demand for cantilever storage systems that can be installed in a fraction of the time of conventional racking. Warehouse space is a big problem for everyone at the moment, the last thing anyone needs is lengthy delays and disruption to their day-to-day operations. We are confident that the robust and efficient nature of our cantilever racking will be the perfect fit for any environment."

As part of NP Structures' Flexible Warehousing range, cantilever racking featuring their Quick-Lock installation system is available as a standalone product. Pallet rack-clad buildings are due to be released later in the year.

NP Structures will be debuting their cantilever and pallet rack-clad structures at Intralogistex stand 713.

For more details call NP Structures' dedicated sales team on 01282 873 148 or visit www.npstructures.co.uk.



Projects carried out on bridges and busy roads

How the MB Crusher drum cutter range provides the solution to the challenges faced by certain construction sites

Construction projects on bridges and major roads often have a big impact on people travelling in and out of the city and motorists who are faced with road closures and an increase in traffic congestion. While the work is carried out, city centres and major roads suffer from congestion.

The companies carrying out road works, road maintenance, excavation, renovation and trenching operations are well aware of the challenges as well as the operational and logistical problems they are faced with. Not to mention the added pressure to complete the work quickly and reopen the roads, these requirements substantially increase costs. How to manage excavation and demolition projects, on bridges, tunnels, and major roads effectively, efficiently, and smoothly.

Renovation work was required at the historic Augustusbrücke bridge over the Elbe river in Dresden, for the removal of the

concrete which filled the arches and had caused structural damage. The customer was seeking a solution that would be suitable for the machine already in use at the site - a Liebherr 918 excavator - and that would not cause any damage to the 18th-century structure. MB Crusher provided the solution by recommending the use of an MB-R800 drum cutter (suitable for excavators between 10 and 22 tons). Firstly, the MB drum cutter was used on the diagonal cement lines on the bridge to free up the expansion joints. This was the most challenging phase. However, the MB drum cutter was used without causing too many vibrations or any damage to the structure. Following this phase, the MB-R800 drum cutter was used to remove some of the concrete that filled the arches of the bridge, grinding as far as 3 metres deep.

Whilst in Berlin, an old bridge over the busy AVUS motorway



needed to be completely demolished. One of the contractor's objectives was to allow the traffic to continue moving on the carriageways across the bridge. During the first phase large machines were used, after which two MB drum cutters were chosen - the MB-R800 drum cutter (suitable for excavators between 10 and 22 tons) and the MB-R900 drum cutter (suitable for excavators between 19 and 35 tons) to remove the various layers of cement and tarmac and to complete the project. >



Another example, this time in Corsica, is provided by a company which needed to build a 450-m suspended footbridge, 5 metres above the sea. The challenge was the construction site itself, which was located between the land and the sea, on the cliff and was very narrow, with very little room for manoeuvre. Therefore, it was a place where only a compact machine could be used. MB Crusher provided the solution by advising the customer to install on their Bobcat E85 midi excavator the MB-R500 drum cutter, an extremely versatile machine that can be customized according to customer requirements, as in this case, with a rotation kit which enables the operator to rotate the cutter directly from the cab without stopping work. The MB-R500 drum cutter also features the cutting depth adjustment kit, the dust suppression kit, and the drum cover kit to reduce dust emission.

Returning to Germany, in Witzeze, where a company needed to remove some of the concrete walls of a bridge and some of the rock found at a depth of one and a half



metres at the bottom of the river to widen the river bed and increase water capacity. For this challenging operation, which is becoming increasingly frequent to prevent flood damage, the MB-R700 drum cutter was used as it is capable of operating underwater without damaging its hydraulic and mechanical systems, as with all the other MB drum cutters.

Where there is a challenge our MB Crusher's drum cutters range provide the solution to managing projects requiring precision grinding, respect for the specific environment, compliance with regulations, and reducing costs and time.



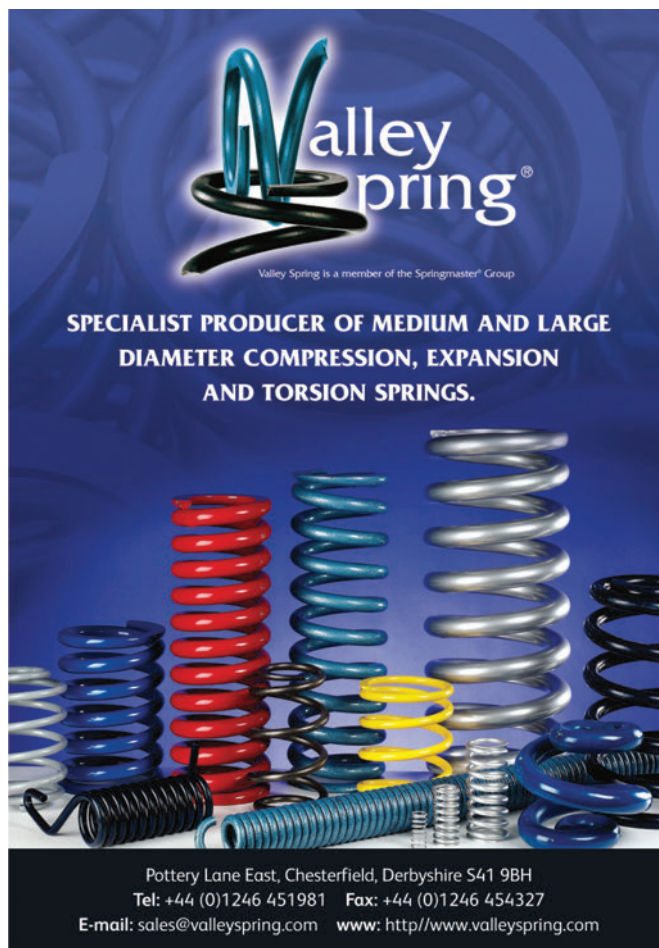


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