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# Terex Ecotec launch the Powerful TBG 630 High Speed Shredder - the ultimate processing machine



**An industry leader in the design and manufacture of wood processing, biomass and recycling equipment, Terex Ecotec have achieved significant growth and development in recent years and today offer a comprehensive product portfolio of mobile shredding, screening, handling and composting equipment.**

## **Powerful & Versatile**

Continually striving to introduce new technology to the market and as part of their new product development strategy Terex Ecotec are delighted to launch the TBG 630 High Speed Shredder. This latest offering has been months in design and development, engineered specifically with large scale biomass and green waste processors in mind. Powerful and flexible in a wide range of applications, class leading production combined with excellent fuel consumption will provide low operating costs to operators. Recently unveiled at IFAT, the world's leading trade fair for environmental technologies it generated unprecedented levels of interest as visitors had the opportunity to see it up close and in action during the live

VDMA working demonstrations where it was seen processing green waste.

Terex Ecotec's Business Line Director, Tony Devlin, said "IFAT truly was the ideal platform to showcase our innovative new TBG 630 High Speed Shredder, demonstrating to the audience of industry professionals Terex Ecotec's drive and commitment to shape the waste and recycling industries for years to come. The addition of the TBG 630 High Speed Shredder will further enhance an already significant portfolio of products offered by Terex Ecotec, meeting both market and customers' needs. The range of machines available provides efficient production, low operational costs and ease of maintenance so end users are sure to find the correct machine for their applications."



TBG 630 processing green waste in UK

The TBG 630 has also received rigorous testing in the field, processing a range of different applications both in the UK and Europe. Commenting on its performance Steven Aiken, Engineering Manager for Terex Ecotec said "We are impressed by the consistent performance and throughput of the TBG 630, 661HP swinging hammer high speed shredder. This is a high volume machine designed to produce a high quality product at unrivalled production rates. Extremely versatile it can be used for the fine shredding of a wide variety of materials from green waste to pallets and waste wood. Unlike conventional high speed shredders the layout is different greatly improving service access and ease of loading. We believe we have created a machine that is right for our dealers' markets, giving the end user exactly what they require."



TBG 630 in action during live VDMA demonstrations at IFAT

## Intelligent Shredding

Powered by a 661HP Scania V8 DC16 engine, the tracked TBG 630 is the ultimate processing machine and has been designed to give operators unrivalled performance, ease of maintenance and superb fuel efficiency. The open fronted feeder enables the machine to be fed quickly and easily from the rear, using six rows of heavy duty drag chains. Due to an intelligent, independent hydrostatic drag chain and feed wheel system, the machine has the ability to vary infeed speed depending on the engine load and rotor RPM. The

feeder can also be stopped, started and reversed from the push of a button on the remote. A novel feature is the feed wheel lift/downward assist, which sees the feed wheel rise over material whilst applying a downward force to break up and push material into the rotor.

## Robust Rotor

At the heart of the machine is the 1,100mm diameter x 1,7520mm wide swinging hammer rotor. This robust, direct drive rotor rotates at 1000rpm and incorporates 36 up-swinging hammers. A wide selection of hammer designs and customisable, interchangeable screens are available which ensure end product material specification is met. Metal contaminants are always a concern when using a high speed machine; the TBG 630 has a clever screen kickback system. Should unshreddable material enter the shredder, a pressure sensor will automatically release the screen allowing the material to quickly pass through reducing the risk of accidental damage. The screen can also be released by the operator using the remote control. The unique machine layout and maintenance catwalks offer operators unrestricted access to both sides of the engine making servicing a simple task. Industry leading conveyor discharge height of 5.1m maximises stockpile capacity and allows loader operators to easily remove processed material. An optional over-band magnet to remove any ferrous metal from the waste stream is also available. The TBG 630 excels in all high speed applications and is particularly well suited to waste wood processing and green waste shredding.

## Telematics

The TBG 630 can also be fitted with the new T-Link telemetry system. T-Link is a remote monitoring, fleet management system that combines the machines' inbuilt CANbus control system with satellite positioning and telematics software. Available online anywhere and at any time, T-Link provides instant access to key data including comprehensive information on GPS machine location, start and stop times, fuel consumption, operating hours, maintenance status and much more. Analysing this data can improve machine operation, increase uptime and allow in-depth reporting and fleet management.



## World Class Manufacturing & Distribution

This latest high speed shredder will be manufactured at Terex Ecotec's state of the art production facilities at Farlough Road, Dungannon in Northern Ireland where the existing Ecotec product range is currently made. The TBG 630 High Speed Shredder will be available to purchase via Terex Ecotec's world class dealer distribution network that provide the sales and aftermarket service demanded for in the market place. Sales Director for Terex Ecotec, Conor Hegarty commented, "The reaction received to the highly versatile TBG 630 from our dealer distribution network has been fantastic, with numerous

orders already secured. Such is the demand for the machine a healthy waiting list currently exists. Having had the opportunity to see first-hand the machines' capabilities they fully appreciate the benefits it will bring to businesses."

The addition of the TBG 630 confirms Terex Ecotec's passion and commitment for new product development and positions them at the forefront of the recycling equipment market.

To learn more about the new TBG 630 High Speed Shredder and to locate your nearest dealer visit [www.terex.com/ecotec](http://www.terex.com/ecotec)

# Murray Plant moves on and upwards



Bruce Murray & Fergal O'Neill

**It has been 6 months since Blue Group completed the purchase of Murray Plant Ltd and a lot has been going on since then as the business continues to grow both organically and through the introduction of new brands in to their product portfolio.**

Murray Plant has been supplying equipment to the construction, mining, demolition and quarrying industries for almost 30 years, having been set up in 1988 by Bruce Murray. Murray Plant have held the exclusive distribution rights for the Rammer range of equipment in Scotland, which ensured steady growth due to the popularity of the Rammer kit. In addition the business has always had a strong focus on aftersales care, which has meant high retention of customers and ultimately synergy with the culture of Blue Group. Despite the relatively small Scottish market compared with other territories, Murray Plant continuously 'boxed above their weight' regularly winning Rammer's 'UK Dealer of the Year' award, and incredibly have very recently won Rammer's 'World Dealer of the Year' for 2017.

Since the deal with Blue back in January, there has been some exciting new developments. These include securing the distribution rights for a number of new brands, Allu and Fortress.

Allu offer a range of screening buckets which have been designed and built to make a variety of applications and processes more efficient. By reducing the number of process steps needed, these hydraulic attachments enable operators to screen on site. This reduces both transportation and material costs as the screened material produced can be retained and used on site for remediation or construction. The range incorporates the DL Series which is considered the perfect attachment for landscaping and agricultural applications. From composting to aerating, top soil screening to waste and debris processing, all can be carried out on-site. In addition, there is the D Series. These screener buckets have been developed for larger processing jobs, meaning everything from aerating compost, primary on-site screening and processing construction material. Finally, there is the M and G Series, both of which are ranges of multi-faceted tools for mining and process industry applications.

Fortress Shears and Crackers are, quite simply, considered to the best in the world, boasting innovative engineering with an optimized structure for long life and high strength to weight ratio. The Fortress equipment have also been designed with maintenance in mind, having large, removable access panels for component replacement. Key features that set these shears apart include a significantly enlarged pivot group eliminating the need for auto guide. This also dramatically improves the performance and durability of the shear. There is a substantial two-piece piercing tip on the demolition shears which doubles the size of the protected area when compared with most demolition shears. Furthermore, the fact that the upper and lower jaws are made from 6" high-yield structural plate steel significantly reduces the need for laminations.

When it comes to the Fortress Demolition Crackers, the upper jaw is machined from a solid 6" thick steel plate, with absolutely no welds. These pieces of equipment also offer tight blade clearances allowing rebar to be processed across the entire jaw length including the tip that offers unmatched power.



Whilst there has been significant change in terms of breadth of portfolio, there are some things that have remained constant at Murray Plant, as these are the factors which have brought strong growth, as well as the numerous awards over the years. Bruce Murray, remains in charge of daily operations within the business, and still even has customers that have been with him for years who won't deal with anyone else. Sales Director Fergal O'Neill, who has been influential in identifying and securing these new brands, has grown the team around him, with Mick Reeve, Dane Fitzpatrick and Jack Miggin now selling, not just in Scotland, but across the UK as Murray Plant have extended their territory with the assistance of Blue Group to now incorporate the whole of the British Isles.

Sales growth from the changes made has been instant, not only on the new machines but with Rammer kit too, as the Blue Group deal has meant access to new Blue Group customers. This was clear at the recent Hillhead event where the sales target for the event was exceeded by 400%. Much of this was due to Blue Group customers coming on to the stand, being introduced to the Murray Plant team by the Blue Salesmen, who were then able to illustrate the quality of the kit they sell.

As if all that hasn't been enough, Murray Plant have also launched a new website, [www.murrayplantire.co.uk](http://www.murrayplantire.co.uk). This

showcases both the products and aftersales service they provide.

Commenting on the first six months with Blue Group, Bruce Murray said, "Blue Group's purchase of Murray Plant has enabled us to reach the next level. It's not just their investment capabilities, but also their knowledge, influence and strength in the market. We have seen outstanding growth in a very short period of time because of what they bring to the table"

CEO at Blue Group, Adrian Murphy who was responsible for overseeing the deal back in January also highlighted "Fundamentally the Murray Plant business was in great shape when we made the acquisition. There was also a lot of similarities between Blue and Murray Plant which has made integrating the two businesses that much easier. We project continued growth in the future and will be investing in their site, personnel and stock to ensure that happens"

It's certainly an exciting time for Murray Plant. No doubt the progress over the last 6 months is only a taste of what's to come. For more information on Murray Plant equipment contact Fergal O'Neill on [fergal@rammerhammer.co.uk](mailto:fergal@rammerhammer.co.uk).



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# Well that was fun!

**What a fabulous summer we are all enjoying, certainly great weather for holidays and the beach. However, the HUB team spent three days at the recent Hillhead exhibition which proved to be truly exhausting with this year's high temperatures. We did visit over 45 stands at the show and if we missed you we apologize!**

Every edition has brought different weather conditions and until the event you don't know what you are going to get. This year's event certainly matched the blazing 1989 event which in my memory was the hottest ever.

Even the CARS/Metal Recycling event in July at Stoneleigh matched Hillhead for the weather!

Well now we can all look forward to the RWM exhibition in September which is held at the NEC and at least in the vast halls we shall have shelter from the sun which is threatening to be still around then. It will be interesting to see how this show performs with new organisers as last years edition was disappointing in terms of exhibitors which I believe was down to the sheer cost of exhibiting at the NEC.

Nothing changes though, and this year's show could be a turning point.

Finally, our new website has now been up and running for a few weeks and to date has received good feedback. This is a completely new website and is more dynamic containing a host of new features, so go and check it out.

**John Edwards**  
Editor



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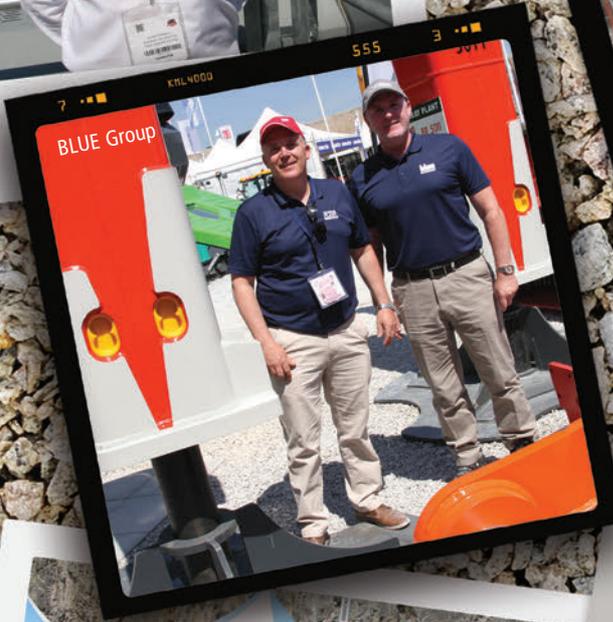
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Oliver Donnelly, Global Business Line Director, Terex Washing Systems



Hardox at Hillhead



BLUE Group



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Katy Graepel of Graepels



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The Smiley Monroe Crew



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CMB International with the new tracked Rubble Crusher



MUCON at Hillhead



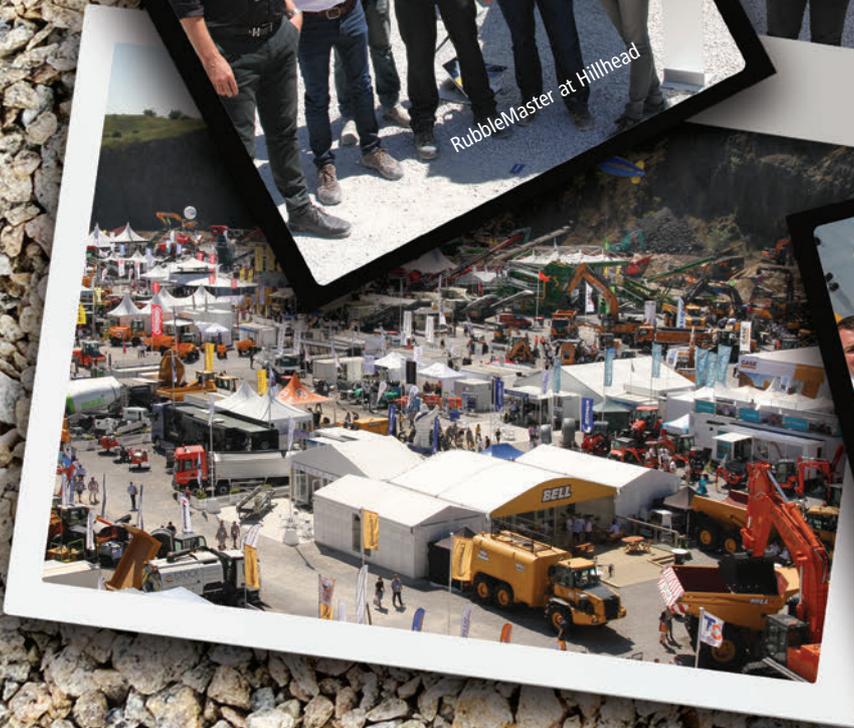
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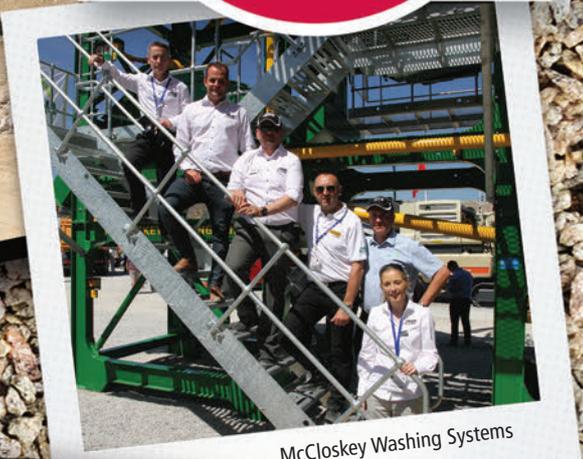
RubbleMaster at Hillhead



Parnaby Cyclones



The CDE team



# STATIC & MOBILE WASTE RECYCLING TECHNOLOGY

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# Breedon completes asset swap with Tarmac

**Further to the announcements made on 13 December 2017 and 26 April 2018, Breedon Group is pleased to announce that it has completed an asset swap with Tarmac which secures 25 million tonnes of additional mineral reserves and around 50,000 tonnes of additional annual asphalt capacity in four key UK locations.**

The Group has acquired from Tarmac three quarries near Inverness, Penrith and Wrexham, together with a quarry and asphalt plant near Porthamadog, in exchange for 23 of its ready-mixed concrete plants and a payment to Tarmac of £6.1 million in cash.

Commenting on today’s announcement Pat Ward, Breedon’s Group Chief Executive, said: “This is an excellent, margin-enhancing deal for us and fully in line with our strategy of strengthening our asset base and improving the quality of our earnings.

“It gives us a significant quantity of high-quality mineral reserves, including a scarce source of high PSV stone and a new asphalt plant in West Wales capable of producing up to 50,000 tonnes of material a year. It also gives us a significant new source of hardstone in the heartland of our Scottish business, at Daviot Quarry near Inverness where we already have an asphalt plant.

“At the same time it streamlines our concrete network and enables us to release value by relinquishing peripheral plants which we couldn’t supply internally and which in many cases were on short-term leases.

“This means we have become much less dependent on third-party aggregates. We can now supply more of our concrete and asphalt plants with our own minerals, with the secure backing of nearly 900 million tonnes of reserves and resources across the UK and Ireland.

“It’s also a great example of how we can work with our larger peers – in this case Tarmac, a subsidiary of one of the world’s most successful global building materials companies – to benefit customers and other stakeholders on both sides of the deal.”

Following today’s deal, Breedon operates more than 70 quarries, 40 asphalt plants and around 180 ready-mixed concrete plants, extending from the north of Scotland to the west of Ireland and the south-east of England.

Completion of this transaction follows the conclusion of investigations by the Competition and Markets Authority, which has accepted remedies proposed by Tarmac – and accepted by Breedon – in relation to any potential competition concerns arising from it.

## Tarmac assets acquired in this transaction:

Daviot Quarry, Inverness

Low Plains Quarry, Penrith

Borras Quarry, Wrexham

Minffordd Quarry & Asphalt Plant, near Porthmadog

## Breedon ready-mixed concrete plants divested in this transaction:

Alrewas	Llanelli
Banbury	Llynclys
Boroughbridge	Meriden
Bournemouth	Pembroke
Briton Ferry	Portsmouth
Cardigan	Scorton
Carmarthen	Shawell
Colchester	Southampton
Dumfries	Stacombe
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# JCB announces £50 million investment in new British plant

**JCB has announced an investment of more than £50 million in a new British plant which will create hundreds of jobs and double production of cabs used on its machines.**

Work is under way on a 350,000 sq ft facility for JCB Cab Systems adjacent to the A50 in Uttoxeter, Staffordshire, next to two existing JCB plants. The hi-tech factory will have the capacity to produce around 100,000 cabs a year. It will include a computer-controlled production line, fully-automated painting facility and robotic welding and will create more than 200 new jobs by 2022.

JCB CEO Graeme Macdonald said: "This new factory will be the most advanced and productive cab facility in the world and will bring even greater levels of efficiency to the business. The investment is one of the biggest in the company's history and underlines our commitment to manufacturing in Britain and in our home county of Staffordshire."

Burton and Uttoxeter MP Andrew Griffiths is Parliamentary Under Secretary of State at the Department for Business, Energy and Industrial Strategy. He said: "This is fantastic news for Uttoxeter, for Staffordshire and also the wider Midlands' economy. This investment represents a massive boost for the area and underlines what a great place Staffordshire is to do business. It's wonderful to see JCB continuing to invest in the county and in British manufacturing – something that can only attract even more inward investment."



JCB Cab Systems currently employs more than 400 people at its existing site in Rugeley, Staffs. The new plant is scheduled to open in the summer of 2019. JCB Cab Systems' General Manager David Carver said: "While new jobs will be created, moving to the new factory will enable us to double capacity without doubling the workforce thanks to high levels of automation. The whole plant is being designed to improve productivity, reduce waste and provide unprecedented quality levels."



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# S Norton & Co acquires 100% equity stake in Axion Recycling Ltd

**On 20th June 2018 S Norton & Co Ltd purchased the entire share capital of Axion Recycling Ltd from the five individual, private investors who have owned Axion since July 2006. This means that Axion Recycling Ltd and the business units trading as Axion Polymers and Axion Consulting are now a wholly owned subsidiary of the S Norton group.**

On the same date Keith Freegard resigned from his position on the board as Marketing Director and terminated his full-time employment with Axion. Keith has made an amicable agreement with the new shareholders to continue working on key projects and areas where his experience and knowledge can provide most benefit, under a part-time consultancy agreement for the next 12 months.

Dr Roger Morton will continue as Director with Axion. His role will not change. The rest of the management team at Axion Polymers will remain unchanged and the Axion Consulting staff will continue with business as usual on all projects and service contracts. Customers, suppliers and Axion's own staff will see no change in the way that business is carried out and the Axion team will carry on delivering service and products to their normal high standards of quality and performance.

The company will trade under the same name and all commercial transactions will continue in the same manner as before. John Norton, Chairman of S Norton said: "We are pleased to announce this change in ownership of Axion Recycling because it clarifies and consolidates the working arrangements between S Norton and the Axion sites.

"We will continue to support the company policy and strategy for sales growth of all products, while at the same time increasing added-value and profitability. We look forward to a successful future based on this strengthened relationship."

Keith said: "I am immensely proud of the sustainable business that the Axion team has created over the past 16 years and to have grown a successful company in the resource recovery sector that delivers the Circular Economy, today, while most organisations are only just beginning to think about it.

"The team of people running the process plants and recycling operations are very competent and well-motivated, so much so that my full-time input is no longer needed! This change in ownership further strengthens the long-term sustainability of the 'grave-to-cradle' business model that S Norton and Axion can deliver for UK industry and I am sure that growth in product output and new business developments will continue at a similar pace."

He added: "I am happy to maintain an active link with the team at Axion through my part-time consultancy role and I also look forward to finding some new opportunities in the exciting waste resource recycling sector."

Axion develops and operates innovative resource recovery and processing solutions for recycling waste materials. Axion works with a wide range of clients, from Government agencies and local authorities to companies in diverse commercial sectors, on the practical development of new processing and collection methods to recover value from waste resources.



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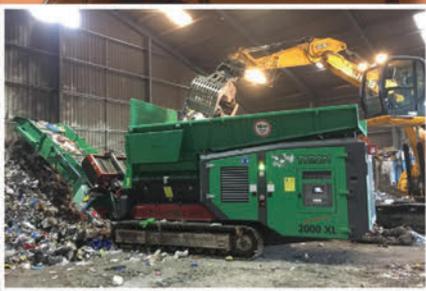
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# Working demonstrations remain key at Plantworx - 111 exhibitors to date



**The week leading up to the recent Hillhead exhibition was a very busy one for the Plantworx team as was the show! The Plantworx stand, located in the Pavilion, was hot and not just because of the scorching temperatures outside, but also due to the amount of companies that visited the stand to make enquiries about the forthcoming working demonstration show (11th - 13th June at the East of England Arena in Peterborough), and book their space at the 4th biennial construction equipment event.**

To date the Plantworx team can confirm 23 new bookings over the last two weeks and of those four are brand new to the event. The show now has a total of 111 exhibitors including leading OEM's such as Marubeni Komatsu, Cat Finning, Mecalac, JCB, Thwaites, BOMAG and Takeuchi. The OEM's will be demonstrating their machinery, and many will be offering operators to test the machinery on the demo areas.

A big Plantworx welcome to the latest new exhibitors, HE Services, JW Corporate, Colchester Fuel Injection and Diesel Mechanics Down Under!

The new Plantworx venue at the East of England Arena and Showground, will see the addition of the new Railworx show, the Plantworx team is promising an exciting new venue and a bigger and better show!

Plantworx show director Simon Frere-Cook said, "In 2019 we are expecting 500 plus exhibitors to sign up for the event with the addition of the Railworx exhibitors – in 2017 we had 396 companies at the event.



Railworx and Plantworx will be one united show, however, for visitors who have limited time to spend at the event, we have designed the showground and indoor arena so that the Railworx and Plantworx areas are clearly identified and easily accessible."

Simon added, "We have 53% more space than we had at the 2017 event with 103, 464 SQ M's of stand space in 2019. That's 34% more indoor space, 50% more outdoor static space and 66% more outdoor demonstration space."

There will be plenty of demonstration areas, both digging and non-digging, which has been the show's 'unique selling point' since the inaugural event in 2013. Operators will be able to get 'stick time' on the participating companies stands as long as they bring along the correct operating ticket and PPE.



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# Molson acquire Finlay Group Ltd and secure distribution rights for Terex Finlay in England and Wales

**Molson are pleased to announce the acquisition of Finlay Plant (UK) Limited and its subsidiary and associated companies (“Finlay Group”), a long-established equipment Dealer of Terex Finlay products for England and Wales. Through this acquisition, Molson have successfully secured the distribution rights for the complete range of Terex Finlay mobile crushing, screening and conveying equipment for England, Wales and Channel Islands.**

The current Finlay Group Sales, Hire and Service organisations will remain largely unchanged. New key resources have already been added to further enhance Finlay Group’s regional operations. Aftermarket parts requirements will continue to be provided by Sure Equipment Limited.

The addition of Terex Finlay products will directly replace the Keestrack range in the Molson portfolio. Molson have been a Keestrack and OM dealer for 11 years and will continue to maintain a strong relationship, whilst supporting customers with warranty work, parts and servicing requirements on legacy machines.

Robin Powell, Managing Director of Molson Group commented: “We are delighted to have acquired the Finlay Group and look forward to welcoming their experienced team into our Molson organisation. The success of the Finlay Group has been built upon a customer-centric philosophy to provide innovative products and solutions to the market. Their commitment and dedication to exceptional customer service directly correlates with our own culture and we are delighted that they have joined our team”.

David Statham, Managing Director of Finlay Group: “For almost 50 years the Finlay Group reputation has been built on the diligence of our people and their respect for our customers. Molson Group is also highly respected and there are clear synergies between our organisations for our mutual customers. I’m very excited for the future direction and the growth expectations for both businesses I look forward to ensuring a smooth transition for our staff and our clients.



Kieran Hegarty, President – Terex Materials Processing commented, “The Molson Group are already a valued Terex partner, with distribution rights for other Terex lines in England and Wales. This acquisition allows us to strengthen our relationship with this vibrant and progressive business. Terex’s continued success significantly relies on working in partnership with professional and customer focused Dealers. Molson have proved to be just that in the past and we look forward to growing with them in the future. We are particularly excited with the benefits that this acquisition will bring, both for our customers in England and Wales and for our business. Synergies within the existing Molson organisation will provide the depth required to consolidate the excellent growth experienced by the Finlay Group in recent years and will guarantee industry leading customer support across the entire country”.

Throughout the deal Molson Group was advised by UK law firm TLT. The deal was funded by HSBC’s team in Bristol, led by Relationship Director Tom Lloyd-Jones.

James Shepherd, HSBC’s Area Director for Bristol, Gloucestershire and Wiltshire, explained: “Molson is an ambitious and extremely well-run business and this deal fits perfectly with its strategic growth plans, enabling the business to build new partnerships and expand its offer. We have worked with the team at Molson for many years so know the business well and were delighted to support this important acquisition for Molson’s future.”



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## DUO announce a merger with Denbow International at Hillhead 2018



**At a press conference on the DUO Group stand, Terry Last, the non-executive chairman of both companies announced the two companies will create a new entity called Duo Group Holdings Ltd.**

Terry Last said, "the merged businesses would have a combined ability to help customers achieve their aims in a very cost-effective manner."

DUO believes it can broaden the service it will offer to its existing loyal customer base and attract new customers and drive solutions.

The new DUO Group will benefit from additional shareholder investment, thereby underpinning its financial security and expansion potential, and enabling it to further improve the performance stability presently offered to both DUO and Denbow customers.

At the same time, DUO have also announced a major deal with Doosan, establishing a new company called Seoul Ltd that will sell Doosan machinery to national account customers in the quarrying and waste industries.



Alex Moss has agreed to remain CEO of DUO Group Holdings and its headquarters will be in Allesley, Coventry.

The increased support of shareholders is expected to result in more jobs being created.

Alex further commented, "We have some very, very ambitious plans which include opening a new workshop in the Midlands for plant maintenance."

Terry added, "DUO Group Holdings will embrace markets wider afield as opportunities become more apparent from Brexit. Some of those benefits are expected in Africa."

DUO Group Holdings expects to achieve turnover of £100 million in its first year.

# WASTE RECYCLING SOLUTIONS

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# New Seoul Ltd Business Formed to Handle Doosan National Account Customers in Quarrying and Waste in the UK

**A new business, Seoul Ltd, is being formed to handle sales, rental, contract hire and aftermarket support of large excavators, wheel loaders and articulated dump trucks from Doosan Infracore Construction Equipment for national account customers in the waste, recycling, quarrying and mining industries in the UK.**

Part of DUO Group Holdings Limited, Seoul Ltd will be based at Meriden near the National Exhibition Centre close to Birmingham and Coventry in the Midlands region of the UK. An experienced, proven management team will be formed to engage with all market stakeholders to drive the business forward.

Adam Dennett, Doosan National Account Sales Manager, said: "We are excited to be working with Seoul Ltd as our new national account dealer partner. Through Seoul Ltd, Doosan national account customers in waste, recycling, quarrying and mining will have an enhanced service for machinery supply and the best possible aftersales support through DUO Group workshops, depots and offices across the UK."

Owen Bolt, Director of DUO Group, added: "We are delighted that Seoul Ltd will be the national account dealer partner for Doosan - a business we know very well, having worked closely with the company over many years. Seoul Ltd is designed to meet Doosan's long term objectives for delivering value solutions to the UK-wide major customer market and augments the existing key account arrangements within Doosan's current distribution model."



DUO Group is a market leading company that provides the aggregate, recycling and material handling industries with a comprehensive package of complete processing solutions, including specific industrial applications for the quarrying, recycling, bulk handling industries and transport infrastructure.

Doosan, one of the world's leading construction and quarrying equipment manufacturers, offers a broad selection of products including crawler and wheeled excavators (with operating weights from 1 to 52 tonne), wheel loaders (covering capacities from 1.9 to 6.4 m<sup>3</sup>) and articulated dump trucks (with maximum payloads up to 40 tonne).



# Powerscreen® provide crushing and screening par excellence for Scoutmoor Quarry

**Situated near the village of Ramsbottom in Lancashire, Scoutmoor Quarry is owned and operated by Marshalls who are the UK's leading hard landscaping manufacturer who have been supplying superior natural stone and innovative concrete products to the construction, home improvement and landscape markets since the 1890s.**

The group operates quarries and manufacturing sites throughout the UK with Scoutmoor supplying high-quality dimension stone for high-profile projects throughout the UK. At Scoutmoor any blasted material of sufficient size is sent to another company site for stone cutting. Any material left over from a blast which is not suitable as saw block is then recycled and crushed and screened on-site providing by-products which after processing provide various sizes of gritstone which can be sold as quality products over the weighbridge to local contracting companies.

There are two crushing and screening operations on-site, the first at the bottom of the quarry produces 3"/6" and MOT material and at the other end of the quarry a single-size operation produces 5 products, an oversize 3", 40-20mm, 20-10mm, 10-5mm and a dust.

Previously, all crushing, and screening operations were done by contractors however in summer last year a decision was made to bring all these operations in-house. At the same time a new investment was made in an upgraded crushing and screening operation to process the single-size products which would be operated by the Scoutmoor team.

It wasn't a difficult decision for the production team to once again invest in the Powerscreen® brand and a crushing and screening train which consists of a Premiertrak 400, a Maxtrak 1150 and a Chieftain 2200 – 3-deck was supplied by Blue Central.

Kieron O'Connor – Site Manager takes up the story, "Powerscreen® equipment is no stranger to us, we have been using them for a couple of years and this new train is very impressive. We knew the guys at Blue and have always had confidence in their support and they soon had the new operation up and running and I have to say that they have upped their game with these fantastic machines!"



Aidan McGeary – MD - Blue Central, responded, "The Premiertrak 400 Jaw Crusher is a well-established machine as a primary jaw crusher and the 1150 and the Chieftain 2200 are very recent developments and demonstrate a marked improvement in cleanliness of the product and the train itself provides a huge 'sweet spot' in the process through the three machines. In terms of a cost per ton the machines provide the maximum return as they work so well together. We have enjoyed a long and successful history with the site as we have dealt with the contractors in the past and now finally directly with the owners who are a blue-chip plc. We have a good understanding of what is required to produce saleable high-quality products at a rate to satisfy the demand on them. It is a high-profile operation which demands world class processing machines and the crushing and screening train reflects that."

## The production process:

As blasted material is delivered to an adjacent stock pile which is then broken up into more manageable sizes by a hydraulic excavator fitted with a breaker; this is then loaded by a back actor onto the stepped self-cleaning grizzly inside the hydraulically folding hopper of the Powerscreen® Premiertrak 400 Primary Jaw Crusher which has been specifically designed for this type of quarrying operation.

Fitted with an under feeder screen the aggregate is fed into and aggressively crushed by the high swing action of the jaw crusher which in turn supplies the Maxtrak 1150 Cone Crusher with a 6"/150mm down material. This is then further crushed down to a -40/50mm material by this machine.

The Powerscreen® Maxtrak 1150 Cone Crusher is a medium sized cone crusher which has been designed for direct feed applications without pre-screening on clean rock. At its heart is the Automax® cone crusher which provides excellent reduction and product cubicity for the production of high-quality aggregate and sub-base material. Hydraulic release capabilities are designed so that any uncrushable material entering the chamber is safely discharged.

Material from the Maxtrak is then fed onto the Chieftain 2200 – 3-deck screen which then delivers through the decks to hydraulically folding conveyors making 4 stockpiles of 40/20/10mm and dust.



Kieron commented, "The Chieftain is a big machine which gives it time to do effective separation with no snowballing effect where the materials become contaminated, it just achieves a better run-off. We are very pleased with it all, it's a huge improvement all around."

The Powerscreen® Chieftain 2200 3-deck is designed for operators who require large volumes of high specification products with maximum versatility. Its patent pending drive system which allows switching between 2 and 4 bearing with bolt-on parts. By splitting up into two individual boxes, the Chieftain 2200 3-deck is able to run aggressively without the constraints of a larger box.



## A total success:

Kieron summarised, "It was a huge sea change for us to actually manage the crushing and screening operation, but we have a good working relationship and received fabulous machine training and back-up from all the team at Blue Central. We have a substantial demand for these products so its essential we can have the confidence in the equipment which will ensure we get the required tonnage. We are running with a high demand on single- size aggregate as we are the biggest supplier locally; however, with the train running comfortably at 150tph we are keeping full control of our stocks."



# WHATEVER THE MATERIAL WE'VE GOT IT SORTED...



Finlay Group offer a range of mobile screening product from Terex Finlay. From Heavy Duty Screens or Grids to Horizontal or Inclined Screens with 3 or 4 way splits to our specialist Spaleck vibratory boxes. Whatever the material, application or industry we have the screening solution for you. If you would like more information on the Terex Finlay Screener range then please call Finlay Group on 01785 282323 or email us on [enquiries@finlay-group.co.uk](mailto:enquiries@finlay-group.co.uk)

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 **Finlay**  
GROUP

# Top trade show turn out for TDL Equipment



TDL Equipment show respect to Chinese excavator manufacturer, SANY, with a hand spray-painted Chinese Dragon on a Keen Attachments bucket at Hillhead.

**It's been a busy few months for UK construction, waste & recycling and quarry machinery distributor, TDL Equipment, with attendance at two of the country's largest trade shows: Hillhead in Buxton, England, and ScotPlant in Edinburgh, Scotland. Each show was used to showcase the latest products from their diverse portfolio of global brands such as Terex Trucks, SANY Excavators, Atlas material handling equipment, Genie telehandlers and Mecalac construction equipment.**

With the opening of a new depot and the launch of a new partnership with Mecalac for central and southern Scotland, ScotPlant was the perfect venue to showcase the investment and commitment which TDL has made to the Scottish market. Taking their biggest stand to date, the show also provided TDL with a platform to celebrate the long term relationships with Terex Trucks and Atlas material handlers & wheel loaders, as well as build on recent success in Scotland with the SANY range of excavators.

Hillhead, which took place less than one month ago, gave TDL another great opportunity to present the world class brands which they sell and support throughout the country. The SANY range of excavators took centre stage with the UK launch of the new SANY SY26 (2.6t) and SY50 (5t) mini diggers. Terex Trucks are no stranger to the Buxton quarry and as the UK distributor, TDL were there to support this world renowned articulated and rigid hauler manufacturer.

'We would like to take this opportunity to thank every single person who visited our stand at ScotPlant and Hillhead' commented John Black, Sales Director, TDL Equipment. 'The positive feedback we have received from visitors regarding all of the products we displayed has been very encouraging and we were also delighted to conclude a number of deals at each show' continued John.

For more information on TDL Equipment please visit: [www.tdlequipment.com](http://www.tdlequipment.com)

## CMB International bring the production back on-line for Overby Quarry

Located near the village of Aikshaw, Cumbria, Overby Quarry is owned and operated by Thomas Armstrong (Aggregates) Ltd (TAL) who are part of the Thomas Armstrong holding company.



The Aggregates Division consists of two sand and gravel operations, one at Overby and a second near Carlisle where the material is extracted out of a lake by dragline. Within this division the company also operate a fleet of 60 trucks which cover tipper, crane, tanker and flat work. The fleet operate out of Overby Quarry transporting sand and bagged and bulk aggregates to their block making plants and concrete and ready-mixed plants, builders and construction sites within a 90-mile radius.

Overby Quarry is a long-established quarry which was originally part worked by TAL and another company. TAL also worked an adjacent site at New Cowper Quarry which was closed 15 years ago and reinstated.

At this point TAL decided to acquire the whole of Overby and move all their processing to this site. Over the years the quarry has been expanded with the original wash plant being upgraded to maximise on the end products.

Currently the processing plant is producing 4,000 tonnes/week of washed concrete sand, building and plastering sand and 10 and 20mm gravel.

Recently the primary washing screen had suffered numerous bearing failures and after considerable, and frequent downtime the Overby team decided to seek a replacement screen.

Ian Morrison – Transport Director, takes up the story, “We researched the market for a replacement and it was suggested to us that CMB International were an excellent manufacturer and after an initial meeting and site survey we placed the order for a new screen with them.”

CMB International are an experienced manufacture who design their own range of feeders, jaw crushers, cone crushers, screens and conveyors. In addition, CMB carry a comprehensive stock of spares and offer on-site maintenance and modifications for existing plant. Their experience enables them to repair and refurbish plant produced by all the leading manufacturers.

Capable of up to 650tph, depending on the application, CMB supplied a new CMB 280 “Dual Drive” 1.8m x 6m Triple Deck Horizontal Screen which was designed to fit in the original envelope and pick up on existing feed and discharge points. New spray bars and a new spray bar support structure were also supplied.

Liam Holland – General Manager CMB International, commented, “the TAL engineers removed the old screen and fitted the new one and our engineers commissioned the screen. We had to make a few adjustments as the new screen was too close to an existing beam which it would foul whilst running. We took some measurements and manufactured some packers to lift the screen away from the beam, whilst still picking up on feed and discharge points. This was corrected within a few days of the screen being installed.”

The new screen at Overby is driven using the “Dual Drive” twin shaft unit with two on-board electric motors which is a tried and tested CMB design which has been utilised on many major installations in the UK.

### CMB Horizontal Screens:

CMB Horizontal or low-angle screens are ideal where height is critical and can be supplied with one, two, three or four decks and can be used for sizing or scalping applications. The size range is 1220 x 2500 (4' x 8') to 1500 x 9600 (8' x 30').

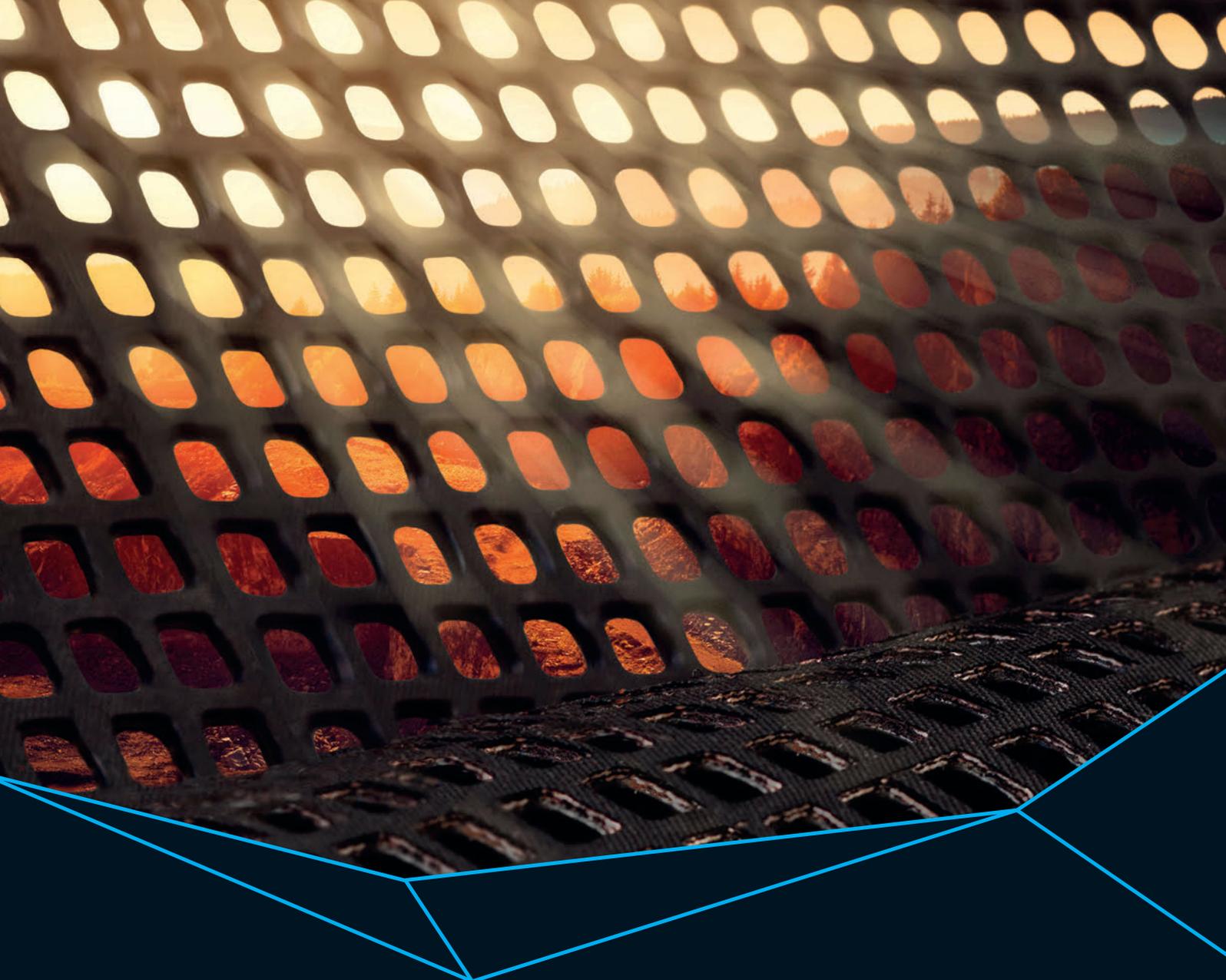
- CMB horizontal screens feature a straight line vibrating motion which is produced by two or more eccentric shafts geared together. By varying the timing of the gears, the vibrating motion can be fine-tuned to assist optimum screening of various aggregates.
- Oil lubricated vibrator unit. Counter-weighted shafts are geared together and mounted on spherical roller bearings.
- Coil springs efficiently isolate the screen from its supporting structure.
- Decks are rigidly constructed from generously sized box section. Unlike I section, box section eliminates trapped material which causes wear to the cross member.

# Quarrying

Numerous benefits include friction checks built into the screen supports which efficiently retard the screen during shut-down, thus reducing forces transmitted to surrounding structures. Maintenance is simple with generous height between decks allowing for easier screening media changes. Finally, when spray bars are required, they can be built into the screen side-plates eliminating spray bar supports, thus improving maintenance access.



Ian concluded, "We are extremely pleased with the screen and the service that CMB have provided. We are now in full production again with the screen making the operation more efficient. I would recommend CMB International to anyone in the industry, just a first-class job!"



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## Why bespoke manual handling packages are beneficial for your business



**A comprehensive approach to managing manual handling risks in your business is crucial, now more than ever, after studies from the HSE have shown that manual handling is one of the most common causes of injuries at work with 9.5 million working days per year being lost as a result of this.**

Implementing conventional manual handling strategies into your workforce and identifying the risks may seem like the right approach to take; but is it enough?

Recent industry-specific advice is discouraging employers to incorporate off-the-shelf manual handling training and instead invest in a comprehensive course that is tailored directly to the business. Companies dealing with high-risk operations are at the forefront of worker injuries and would benefit from customised instructional techniques for manual handling that are specific to the operational environment.

The key component of tailored training is based upon observation of the current workplace practices and the workers' observations. The workforce often has the most effective suggestions and a better understanding of the environment and can highlight which practices cause injuries to reoccur such as ascending and descending the cab erroneously or twisting and turning incorrectly on the waste production line.



Working in the extractives and quarrying industry for almost 30 years, Mentor understand more than any other business how important it is to handle equipment safely to avoid injuries; using a training provider to conduct a bespoke course will allow risks to be assessed and prioritised in reference to the job or environment in question. Off-the-shelf manual handling training will not cover the relevancy around an operators' day-to-day tasks, making the training invaluable and expresses the need for tailored training.

A comprehensive training approach will allow your business to:

- Have the risks assessed and prioritised according to the operational environment.
- Reduce the amount injuries on site and staff illness days.
- Monitor and measure the performance of your business.
- Reduce recurrent training costs by investing in one provider that will be beneficial for all operators on site.

Not only does bad manual handling practice affect the workers, it also directly affects the business, financially and in terms of efficiency and must be highlighted as a vital consideration for the company.

It is apparent that both workers and businesses will benefit exponentially by incorporating tailored, comprehensive and correct manual handling training within the workplace in order to minimise the risk of injury and maximise safety, cost effectiveness and efficiency. For more information on the training and courses that Mentor can offer and how we can deliver a bespoke manual handling course for you, call us today on 01246 386900.



# CDE equipment brings dormant Little Paxton quarry back to life

**Aggregate Industries, a leading building materials and solutions company with more than 300 sites across the UK, has brought dormant Little Paxton quarry in Cambridgeshire back to life with a CDE wet processing solution installed in partnership with Aggregate Processing Solutions (APS).**

### The beginnings

Holding the Responsible Source™ certification, Aggregate Industries was committed to developing the Little Paxton quarry according to strict environmental guidelines as the site is adjacent to Paxton Pits, a Local Nature Reserve (LNR) and a Site of Special Scientific Interest (SSSI). The quarry had been mothballed for six years and Aggregates Industries, through APS, identified CDE as its supplier of choice to maximise the site's materials production potential.

As Aggregate Industries originally did not have an extension planning permission, the company opted to lease rather than purchase a wet processing plant, which it needed to be designed to very specific requirements. Aggregates Industries' 10-year partner APS, which sells, contracts and hires processing equipment, was able to recommend CDE as the only company that could develop a fully bespoke, high-efficiency wet processing solution for Little Paxton. CDE would provide the technical solution and the equipment, which would be installed and operated on site by APS on a price-per-tonne basis.

### Expectations and challenges

David Kinloch, Regional Manager UK for CDE said. "The Little Paxton quarry presented different environmental and technical challenges that CDE's design and technical engineers, in collaboration with Aggregates Industries, tackled systematically and successfully to co-create a tailor-made solution that would deal with the clay contamination in the raw sand and gravel feed whilst addressing requirements for a specific layout to match the site's footprint as well as height, colour and noise restrictions.

"After the raw feed was analysed in its laboratory, CDE was able to determine how its solutions could match Aggregates Industries' requirements such as specific products, tonnages, product blends, and stockpiling capacities."

With a 180 tonne-per-hour feed rate, Aggregate Industries wanted to produce a mixture of aggregates and sands for the construction industry, with the option to blend 20mm, 10mm and 6mm products into a 20-5mm product. CDE designed a bespoke modular solution to reach this objective with the option to be further developed at a later stage. Matthew Sharpe, Quarry Operations Manager at Aggregate Industries said: "Whilst making a decision on the plant for Little Paxton APS and CDE were able to offer a solution to some of our specific requirements we had for the site. This included product blending and stocking capacity, as well solutions to make the operation and maintenance of the plant easier in the long term.

"The ability of CDE to meet these requirements and offer practical solutions is a major contributing factor to Aggregate Industries ultimately purchasing the plant"

### The CDE solution

To tackle the clay contamination in the raw feed, Aggregate Industries opted for a complete CDE solution comprising an AggMax 252SR logwasher performing at optimal efficiency thanks to the inclusion of a ProGrade twin deck washing screen, a transfer conveyor and an EvoWash triple cyclone sand washing unit. These are completed by six stockpilers, a ProGrade rinsing deck, sizing screens and a Trackstack stockpiling unit. A tracked radial conveyor supplied by APS was added to the installation to allow more flexibility on site.

Little Paxton Quarry

## The result

Once the plant was completed and tested at CDE's assembly facilities, APS took delivery of it to install and operate it for Aggregate Industries.

With a 180 tonne-per-hour feed rate from the customer's existing overland conveyor, the Little Paxton quarry now produces +90mm oversize rinsed product, 20-90mm / 20mm / 10mm / 6mm scrubbed product, concrete sand and building sand, as well as soft and sharp sand, with an option to blend 20, 10 and 6mm grades into a 20-5mm product. These are sent to market to be used mainly in concrete applications but are also sold to the decorative aggregates market across a range of regions including Scotland.



Matthew Sharpe, Quarry Operations Manager at Aggregate Industries, on the Little Paxton quarry site during the installation of the CDE plant.

## Relationships matter

Kinloch adds: "Seamless communication with our client Aggregate Industries and partner APS was key to develop an efficient solution for Aggregate Industries that would be operational in record times.

"Whilst CDE co-created the equipment with Aggregate Industries to ensure all production requirements would be met, effective collaboration with

long-term partner APS was a crucial element in the installation and operation of the new plant. APS introduced each component of the Aggregate Industries' washing system to guarantee perfect synergy and optimal production yield."

John Dunne, managing director of APS, continues: "It's great that the quarry is back up and running and I'm happy to see how pleased Aggregate Industries is with its new washing system.

"There is no doubt that active collaboration with our client Aggregate Industries and CDE contributed greatly to the success of the project. APS is an expert in wet processing installations and as we have been working with Aggregate Industries and CDE respectively for 10 years, our knowledge of both the client's needs and the CDE technology meant we could be an efficient partner in the development of a highly efficient modular plant.

"It took only seven weeks to install and commission the system and soon Little Paxton was ready to start producing high quality sands and aggregates."

Duncan Hayden, Assistant Site Manager at Aggregate Industries' Little Paxton Quarry, concludes: "As a company, we have been working with APS for around 10 years and they have always delivered an excellent service, so when they recommended the CDE technology as the answer to the very specific requirements we had for Little Paxton Quarry, we knew we could trust them.

"The whole experience has been very good and we are delighted with the performance of our CDE plant."

## When leasing makes smart business sense

Kinloch concludes: "When planning permission was delivered and capital expenditure (CapEx) became available two years after Aggregate Industries started sending materials to market from Little Paxton, the company was able to purchase the CDE plant in full at a pre-agreed price, demonstrating the benefits of leasing to produce materials immediately rather than wait for CapEx to buy a plant that would then take an extra year to be developed and operation on site.

"We are delighted to have been able to produce a bespoke wet processing solution that has ensured the successful rebirth of Little Paxton into a productive quarry that delivers high quality materials to local construction companies as well as companies located as far away as Scotland."



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## Dustless Loading Spouts & Equipment for Handling Dry Bulk Solids.

Vortex Loading Solutions provide fast and steady material flow during the loading of dry/bulk solid materials in open and/or enclosed vessels such as trucks, railcars, tank vehicles, ships, barges, & stockpiling. These loading spouts are designed to capture fugitive dust, prevent material waste, and ensure plant and environmental safety, with low maintenance and service expenses. From the retractable loading spout attached to the bottom of a silo/hopper or located at the end of an air conveying system, to the dust collecting filter system, to the spout positioner, Vortex offers a complete line of versatile solutions for your loading process.



### Four Cable Lifting System

This system provides added security over 2 and 3-cable spout designs and uses a 3-piece CNC machined pulleys with chamfered edges.

### Sleeve & Cone Construction Options

Many different options for construction material based on application.

### Level Sensing Auto Raise Feature

Level-sensing probe provides automation & speed to loading process, eliminates the need for visual monitoring of the loading process, and reduces the ability to overfill a load leading to material waste



### REDUCED DOWNTIME

Vortex components are specifically engineered to be maintenance friendly. With Easy Access Panels and In-line Adjustment Features that allow you to spend your time and money where it matters.

### INCREASED SERVICE LIFE

With key features such as Abrasion Resistant Liners, Wear Compensating Seals, and Material Construction Options, Vortex components are built to withstand the most demanding applications.

### CUSTOMER ASSURANCE

Our Customer Service carries far beyond the initial purchase. With On-Site Technical Support, a Worldwide Rep Network and Downloadable on-line resources, we've got you covered.



Learn more about our Slide Gates, Diverters, Iris Valves & Loading Solutions at:

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## Hillhead Quarry Show sees launch of new and improved dust suppression products from Ace Plant

**Here at Ace Plant we have been manufacturing and supplying dust suppression equipment for many years. During this time, we have developed individually designed machinery and adapted standard equipment to provide bespoke dust suppression.**

At this year's Hillhead Quarry show in Buxton we launched our new and improved range of Dust Suppression Unit tankers. Complete with rear splash plate, spinning disc & rain gun these units are the 'swiss army knife' of dust suppression, suitable for many different applications all of which controlled in the cab of the tractor – maximising safety.



### Dust Suppression Units

Our range consists of 5000L (1100gal), 7200L (1600gal) & 9000L (2000gal) versions, our dust-suppression units are fitted with hydraulic vacuum pumps – again maximising safety as no PTO required. These pressure-fed units are normally fitted with a rear splash plate, making it particularly suitable for dampening down residual dust on haul roads where high-volume water application is required. We also offer a 2250L (500gal) unit which is fitted with a petrol driven water pump and rear splash plate which can be towed behind most vehicle with a pin hitch.



### Spinning Disc

In situations where water consumption is an issue and efficiency are a must, we have developed a hydraulically driven carbon fibre spinning disc assembly mounted to our vacuum tankers. Being gravity fed it uses less

water than pressurised systems and gives the operator greater control. The spinning disc atomises water into a fine mist dampening residual dust and not 'soaking' an area unnecessarily.

### Rain Gun

When a more targeted and high-volume approach is required our rain gun provides an alternative solution. Powered by a high-capacity centrifugal hydraulic pump, a throw of up to 70m can be produced. Hydraulically operated from inside the cab of the tractor the rain gun can be accurately directed and is powerful enough to be used for firefighting.

### QuickSpray

When fleet utilisation is an issue, our QuickSpray telehandler/forklift/loader mounted dust suppression unit provides accurate, efficient and effective dust suppression, it also helps to ensure existing equipment fleets are used to capacity. Using the same carbon fibre spinning disc assembly as the dust suppression units this system is gravity fed whilst the spinning disc atomises the water which results in a fine mist that traps dust on the ground and in the air. The spinning disc makes water usage more efficient, economical and gives the operator greater control.

### Dust Fighter

Our Dust Fighter fan assisted range offers a controllable low water usage solution. Complete with remote control our 7500MPT Dust Fighter can be aimed, turned on/off and oscillated at the touch of a button. Fitted with a 2000L on-board water tank and 22KVA generating set our DF7500MPT has up to a 40m throw and is completely self-contained.

Uncover more about Ace Plant and our range on innovative products at [www.aceplant.co.uk](http://www.aceplant.co.uk)

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## Finlay Group extends its online presence to visitors

**The Finlay Group has brought together all elements of its material handling business into a new innovative website, which captures the scope and scale of the company in a digital format.**

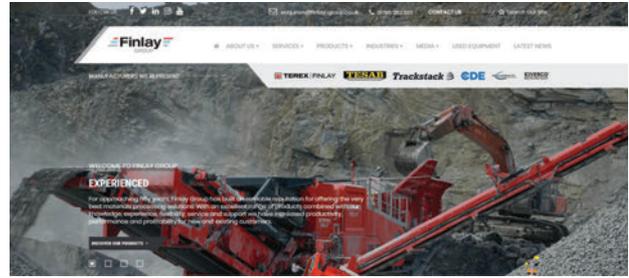
The new cutting-edge platform [www.finlaygroup.com](http://www.finlaygroup.com) has been developed to showcase the company's solutions and how they deliver performance, productivity and profitability for clients.

It explores all parts of the Finlay Group – which consists of 11 companies offering the latest equipment from leading manufacturers, serving the mining, quarrying, aggregates, construction, demolition, waste, recycling and soil stabilisation industries.

Rik Kiddle, Sales and Marketing Director at the Finlay Group, has led the project. He said: "The website has enabled us to better reflect the full range of manufacturers and products that we represent as a business.

"Most importantly our customers will have access to more information about us, our ranges and services as well as the industries we serve and support."

The site features comprehensive product information and images, as well as downloadable brochures and specification sheets – and a new search facility, which enables users to search for used equipment by year, hours or budget, quickly and efficiently.



Visitors can also catch-up on the company's latest news, watch videos of the machines in action and hear about other people's experiences with their plant in Finlay Group's extensive testimonial library.

In tandem with the introduction of the website, the Finlay Group has also launched new social media channels, including Facebook, LinkedIn, Instagram and Twitter, to run alongside their existing YouTube channel.

Rik added: "Our new social media channels will allow us to stay better connected with our customers and give us the chance to interact over the latest industry news, recent product launches and even competitions."

The Finlay Group has also introduced The Conveyor, a quarterly magazine featuring the company's latest case studies and product news – back issues are available to view and download from the new website.

## Hillhead 2018 - A Success for SCS!

**The scorching sunshine at Hillhead 2018 offered a refreshing change from 2016; for SCS however, the show was hotter in more ways than just the weather!**

It was fantastic to see a mix of existing and potential customers, from the UK domestic market and further afield. We believe our popularity and growth can be attributed to our professionalism and reliability. We have a proven reputation as one of the leading suppliers of synthetic screen media and wear resistant linings, offering a range of cost effective solutions, tailored to our customers' needs.

We were proud to see our polyurethane modular systems, rubber screen cloths, steel backed rubber wear liners and the ever popular SCS head scraper installed on a variety of machinery around the show, demonstrating our industry presence and prominence. With over 25 years' experience, SCS specialises in the design, manufacture and installation of synthetic products (mainly rubber, polyurethane and polyethylene) for the quarrying and recycling industries.

Thank you to everyone who came along to visit us on our stand, and of course to the fantastic SCS team who welcomed visitors from around the world, served ice cold drinks and provided nothing but friendly customer service. We will be back for more Hillhead action in 2020.

In the meantime, if you would like more information on our products and services, please call our team on 01788 553300, or email [sales@scsruy.co.uk](mailto:sales@scsruy.co.uk)



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## Electrifying premiere

**Keestrack, the international specialist for mobile processing, presented the revolutionary mobile cone crusher Keestrack H4e at Hillhead 2018. Making its UK debut, the highly compact plant with optional integrated pre-screen and 3-deck hanging screen has been displayed as fully hybrid electric version, offering important energy savings in productive secondary or tertiary crushing.**



At Hillhead 2018, the fully hybrid Keestrack H4e cone crusher with "plug-in" option highlighted Keestrack's philosophy of most flexible mobility with consequent productivity.

"We were really impressed by the large international attendance at this year's show," says Michael Brookshaw, Keestrack's Global Distributor Manager. "We met numerous expert visitors from all over Europe and our overseas market regions as both Americas and Asia, all of them acknowledging our global approach in supplying the highest standards in productive mobile crushing and screening." Today, Keestrack's range for quarrying and recycling applications includes over 20 different models, offering production rates from 200 up to 1200 tph. Almost all models are available in diesel-electric or full-electric options.



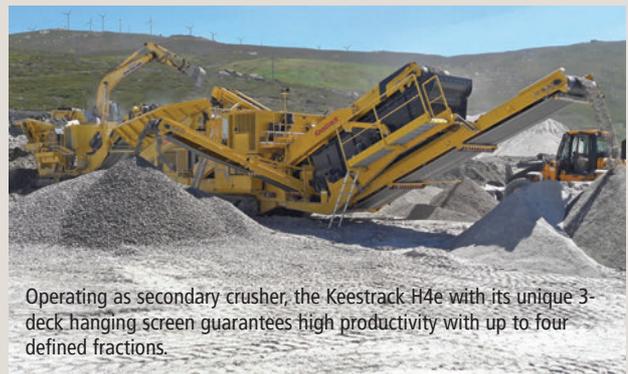
The Keestrack Hillhead-Team: Michael Brookshaw, Global Distributor Manager, Managing Director Peter Hoogendoorn and Peter McGeary, Sales Manager North America.

### Successful debut

On the stand, the fully hybrid cone crusher H4e highlighted Keestrack's philosophy of most flexible mobility with consequent productivity. Still unique on the market with its optional 3-deck hanging screen, the fully equipped plant weighs only 46 tonnes (without options: 35 t), offering easy one-piece road transport and fast relocation on site.

For flexible autonomous operation, the Keestrack H4e is equipped with an on-board diesel engine (345 kW (EU-IV) / 328 kW fixed speed (EU-

IIIA). The engine drives a 330 kVa alternator, providing power to the 132 kW electric motor of the crusher drive and to the separate 45-kW E-motor/pump unit for all hydraulic drives on the plant (tracks/fans/screens /hydraulic cylinders). Without



Operating as secondary crusher, the Keestrack H4e with its unique 3-deck hanging screen guarantees high productivity with up to four defined fractions.

starting the diesel, this setup enables the plant to operate fully "plug-in" from mains or external gen set, resulting in energy cost savings up to 70% compared to conventional diesel-hydraulic plants. As an option, the H4e diesel/alternator combination is available as detachable drop-off unit. Remotely positioned during operation this reduces dust and vibration loads for the drive unit.

The Keestrack H4e features the KT-H4 cone crusher, adapted and supplied by a world-leading cone specialist. The fully automated unit produces up to 250 tph at maximum feed sizes of 185 mm. The wide variety of concaves allows a high flexibility in secondary or tertiary production of highly defined end fractions. To optimize production the plant can be optionally equipped with a pre-screen with fines chute and with a highly efficient three-deck secondary screen module with recycling conveyor for closed-circuit processing. The large dimensioning of the hanging screen (eff. area: 3 x 5.4 m<sup>2</sup>) and large stockpiling capacities of the conveyors prevent bottleneck effects in producing up to four highly defined quality end fractions.

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# Volvo CE launches 100t rigid hauler

**The HUB recently spent a great day at the Terex Trucks factory and both of us had the chance to test drive the truck – fabulous !**



The brand new 95-tonne (100-ton) R100E from Volvo Construction Equipment is set to be a heavy hitter in mining and quarrying sectors, putting low total cost of ownership at the forefront of its design.

With a size and capacity that makes it easily the largest hauler in the company's line up, the new R100E rigid hauler from Volvo Construction Equipment promises to drive down operating costs for customers by optimising productivity, uptime and operator comfort.

This groundbreaking model is built on strong DNA, with roots tracing as far back as 1919. For nearly 70 years, the Volvo CE Motherwell facility has designed, manufactured and distributed rigid haulers. Built from nearly a century of engineering excellence, no other machine can compare to the R100E.

### **Move more, earn more**

Offering a true 100ton/95-tonne payload, the newest star in the Volvo fleet allows operators to meet production targets faster. Built to perform, the R100E is powered by the premium 783 kW (1075 hp) engine. The combined drivetrain delivers high torque capabilities, unparalleled pulling performance and class-leading rimpull, for optimum traction. Drivetrain control and machine momentum are supplied by the new Volvo Dynamic Shift Control, which automatically tailors the transmission shift-points depending on the worksite and operational inputs.

The R100E is built for all surface mining and quarrying applications, where operational costs are critical. Customers can expect to spend less per haul with the R100E, featuring a 60.4m<sup>3</sup> capacity V-shaped body for optimum load retention and minimal material carry-back. The industry-recognised load profile policy enables the operator to meet a consistent average target payload (95-tonne), while the speedy body-tipping system ensures fast cycle times for an all-round efficient performance. >



Volvo builds on the high capacity and hauling speeds of its rigid hauler with intelligent monitoring systems. The On-Board Weighing (OBW) option is an integrated system that ensures the machine moves the optimum safe payload to further optimise production and minimise operational costs. It does this by using exterior-mounted pressure sensors to monitor and relay machine statistics to the operator's on-board display. Not only can machine information be viewed in real-time via the on-board display, it can be remotely accessed via Volvo's CareTrack® telematics system to help operators and fleet managers improve planning.

Customers interested in increasing the productivity of existing and future projects can access Volvo Site Simulation with the help of their local Volvo dealer. The system works by providing customers with valuable information about their machinery, fleet choices and site configuration, helping them maximise productivity, while better managing ownership and operational costs.

### **Durable by design**

Uptime and productivity are centered on the machine's durable design, which promotes high component protection and longer lifecycles, for extended intervals between planned maintenance.

Offering rock-solid stability, the R100E conquers the toughest terrains while in complete control. The robust hauler offers a low centre of gravity and is equipped with an expertly designed body and chassis that work in harmony with the McPherson strut with lower wishbone front suspension and the new low-effort steering system. The operator can easily maneuver around tight corners with light, intuitive steering provided by the pilot-operated remote-mounted orbitrol control valve.

Not only is the R100E designed to achieve optimum performance and productivity through high levels of operator comfort, machine control and stability, it also promises to reduce repair costs. The front suspension is widely spaced to absorb load and ground surface shocks and protect vital machine structures. Detailed engineering is also evident in the machine frame 'horse collar' design, providing flexibility to travel on uneven terrain. Manufactured from box-section steer rails, the frame features high-strength steel castings in the key stress locations to absorb ground impacts. All frame bores are sleeved for additional protection. A significant investment was spent in frame and body rigorous testing, which included applying 60,000 hours' worth of chassis fatigue loads. With a body manufactured from high impact and high abrasion-resistant 400-HBW-hard steel the R100E rigid hauler achieves long-lasting performance.

### **The operator's choice**

Not only a highly efficient machine, the R100E also brings operator productivity to the fore – starting with the ROPS/FOPS-certified operator cab. Offering reduced vibrations and exterior noise, the cab is fitted onto viscous-type isolation mounts for greater ride quality.

From the operator seat, located on the left side of the cab, the operator can observe the job site and surrounding areas through the large glass area and a low rake windscreen. Good visibility is complemented by a 360° surround view system provided by Volvo Smart View. The system uses multiple ultra-wide angle exterior-mounted cameras to produce a bird's-eye-view of the vehicle and surrounding work area via the on-board display. Benefits of this 360° system extend beyond

increasing operator and worksite personnel safety; it also reduces or eliminates collisions with other objects to minimise machine and tyre damage, particularly when reversing as it enables operators to safely avoid ground obstructions. Reducing the risk of accidental machine damage lowers repair costs and increases uptime.

All displays and ergonomically positioned fingertip controls are within reach of the fully adjustable Volvo air suspension operator seat, easily adjusted to fit the operator's physique. The cab is equipped with pressurised properties and HVAC control, as well as ample storage to reduce in-cab clutter and distractions.

As with all Volvo machines, the rigid hauler is built with safety in mind and safety is designed into every aspect of the high-performance machine. For the protection of both the operator and site staff, all machine systems, such as the emergency shutdown switches are easily accessible. The transmission retarder and neutral coast inhibitor secure safe machine control in downhill conditions, while the engine overspeed protection automatically slows the machine down to safe operating limits.





## Easy to inspect

Regular service inspections are required to spot potential problems and ensure a long service life. The R100E makes accessing daily service checks and routine maintenance quick and easy with anti-slip steps and secure walkways, to ensure the machine gets back to work as quickly as possible. All service points are strategically grouped and located within reach from the ground and service platform to provide quick, easy and safe machine maintenance or adjustments, while the direct rim-mounted wheel design promotes safe and quick installation and removal. Inside the cab, access top-level diagnostic data using the operator-friendly dashboard for fast analysis and solutions. From the dashboard, the operator can quickly monitor the machine's health and access the system pressures, temperatures, fuel consumption, engine diagnostics, transmission diagnostics and VCU diagnostics.

The R100E also features high level of hydraulic filtration that features magnetic suction filters on each hydraulic functional system, as well as a pressure filtration on the steering, brake actuation pump and rear brake cooling units. The engine-mounted primary and secondary fuel filters combine with the advanced two stage oil filtration to remove harmful contaminants. Packed with durable features that provide superior protection, the R100E optimises operations and extends maintenance intervals for lower operational costs.

On the rare occasion that the Volvo R100E requires more attention than a routine service check, Volvo experts are always on hand to provide specialist advice via an extensive infrastructure of dealers and technicians. Combining local knowledge with global mining experience, Volvo offers a range of customer solutions – from telematics machine reports, Volvo Service Agreements (VSA) and extended warranties – to increase profitability throughout the entire machine lifetime.

## Key specifications:

Payload capacity kg / lb	95000 / 209,439
Body Volume, SAE 2:1 heap m <sup>3</sup> / y <sup>3</sup>	60,4 / 79
Net weight kg / lb	69550 / 153,331
Gross weight kg / lb	164550 / 362,770
Engine	Cummins QST30 CAC (Tier 2 / Stage II)
Maximum engine gross power kW / hp	783 / 1,050
...at engine speed r/min	2100
Max SAE J1349 gross torque Nm / lbf ft	4 631 / 3,416
...at engine speed r/min	1300
Max speed km/h / mph	50 / 31.1

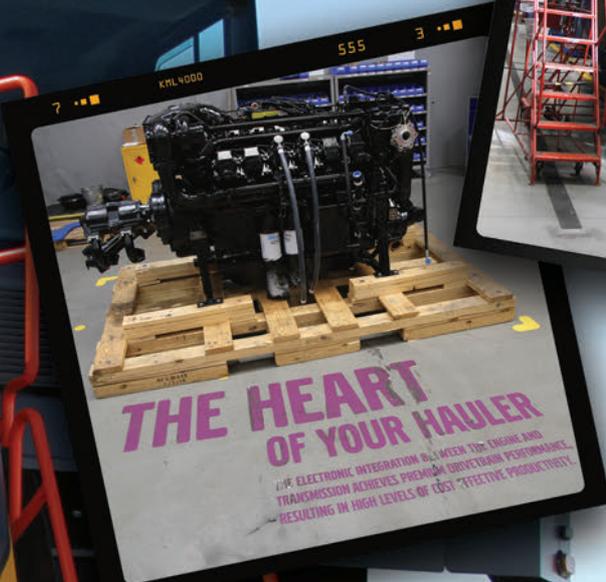


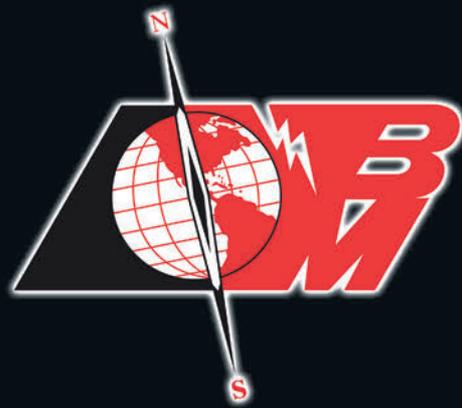
## HUB visit Terex trucks





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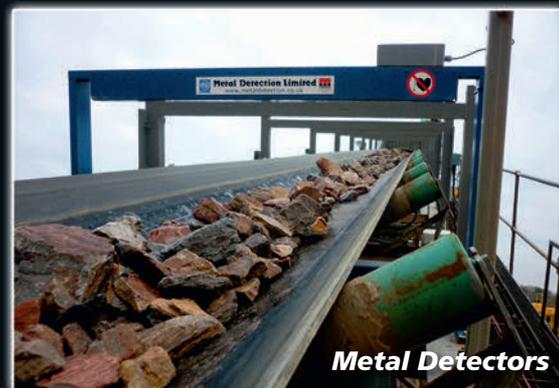
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## FusionCast® passes the screen test

**High quality, reliable and durable screen media can prevent costly unscheduled downtime and help operators avoid rescreening material. Scott Campbell, Product Manager for Weir Minerals Europe's FusionCast® range of screen media, discusses the steps businesses can take to increase equipment efficiency and avoid unplanned change-outs.**

A continuing demand for aggregates requires reliable equipment and screen media in order to maintain maximum efficiency. Traditionally, many operations have used woven wire cloth as screening media, however this can be subject to high wear, resulting in frequent change-outs.

With the introduction of wear-resistant materials such as rubber, polyurethane and perforated steel, the options have never been greater. It is vital that the right screen media for each application is selected if operators are to avoid unplanned downtime and expense.

The first step is to consider all aspects of the aggregate operation and to identify any challenges that might affect production rates or profitability. A second factor is to consider the composition of the material going through the screen media and to consult an expert from an experienced equipment provider to match the most suitable screen media to the application. Thirdly, the screen media itself must be installed and maintained by an expert.

### A process of elimination

Identifying the most productive screen media involves scrutinising the screening process itself. Look at the material being processed and assess whether the screen media is achieving a suitable lifespan for this operation. If not, pinpoint what problems are occurring, and why.

The size, weight and abrasiveness of the material being processed will all affect equipment performance. Gravel, for example, typically requires media with excellent wear resistance to cope with the high abrasiveness, whereas larger particles (up to 25cm) need durable screen media to handle the constant high impact.

A further step is to consider the vibrating screen itself and carry out a vibration analysis. Some systems can safely monitor vibrating screen performance in real time and pinpoint irregularities before small issues begin to affect performance or require significant maintenance. The machine itself may be running well but changing the screen media used may prevent irregularities and damage.

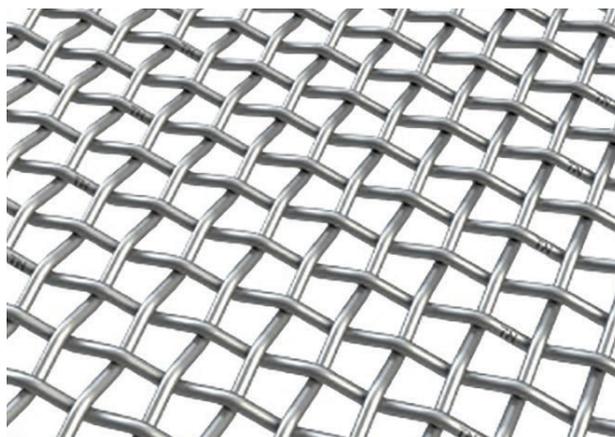
Operators should examine screen media wear to determine whether it may be beneficial to switch to a more durable form in any of the screening phases, particularly since broken screen media can result in unscheduled change-outs.

It can take around one hour to shut down a vibrating screen and change a section of screen media – which in terms of lost production can result in the loss of hundreds or even thousands of pounds. Choose a supplier that will carry out a vibration analysis before and after installation to ensure everything runs smoothly.

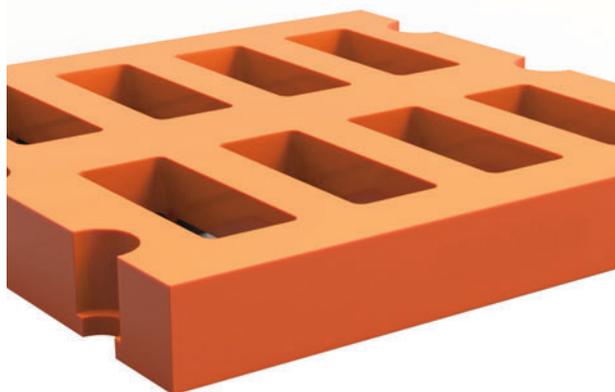
It is wise to examine discarded screen media for signs of problems such as broken wires, pegging or blinding – premature wear is a sign that the wrong type may be in use, which can also result in unwanted material in the screened pile, leading in turn to costly rescreening.

### Engineering a solution

Highly engineered screen media – such as the FusionCast® range from Weir Minerals – can offer a longer service life than wire alternatives. The complete offering includes metallic, polyurethane and rubber screen media, as well as perforated metal plates and electro welded mesh.



Double crimped wire mesh.



Regular FusionCast metal mesh.

Rubber and polyurethane materials dampen the noise level during the screening process, allowing for more operational hours in areas with decibel limits or time restrictions. Screen media made from these materials are also versatile and can be made to order for a specific operator – for example, the top layer could comprise soft polyurethane while the bottom layer may be more rigid to cope with hard-hitting applications.

When switching to modern, engineered screen media, an experienced equipment provider such as Weir Minerals Europe will be able to advise on the best products for each individual site and application.

FusionCast® is a robust screen media designed to maximise up-time and efficiency. The range includes metallic, polyurethane, rubber, dewatering and perforated metal screen media. For more information, please contact +44 (0)1706 814 251.

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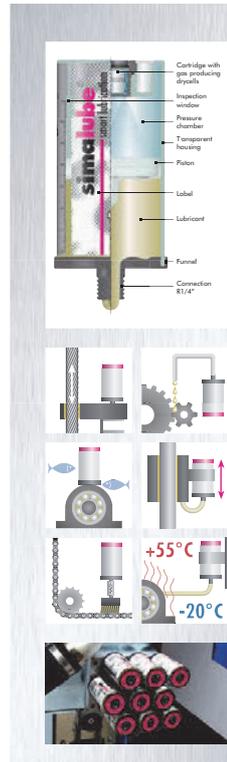


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**Features for September/October edition:**

- **QUARRYING** - Crusher spare and wear parts. Screens and screen media. Wear protection.
- **RECYCLING** - Shredders and associated processes.
- **BULK HANDLING** - Storage & handling, level measurement & control.

Editorial copy deadline 5th September 2018    Advert copy deadline 15th September 2018

## Launch of 'My Fleet' Telematics system at Hillhead 2018



Hillhead 2018 saw Sandvik Mining and Rock Technology Mobile Crushers and Screens launch a new automation and control telematics system, My Fleet. Developed initially for the Premium (Q) range of crushers, this new digital solution has been purpose designed to help operators get the very best out of their investment.

Sandvik has long been regarded as the leader in process automation and through the introduction of My Fleet Sandvik has added a powerful monitoring, control and data collection tool. With access provided via a cloud solution, this new functionality is designed to eliminate guesswork and provide the hard data needed for informed business decisions.

My Fleet has been purpose developed to help our customers know exactly how equipment is being utilized. Through the collection and accurate monitoring of a wide array of parameters, this facilitates accurate production forecasting, ensuring that the most efficient use is obtained from equipment, thereby maximizing return on investment.

This is achieved through the advanced digital technology used in My Fleet which provides remote access to critical data on location and machine utilization, enabling operational machine optimization. It further helps customers plan their service and maintenance schedules, and ultimately, work more efficiently and cost effectively.

### Two tier solution

There will be two packages available and customers will be given the option to take one of the packages or alternatively, opt out of the system. The two packages consist:

- Freemium - a basic package aimed at providing machine location and utilization
- Premium - provides a wide array of parameters for a more in-depth analysis and monitoring of the equipment

Both packages are accessible online 24/7, 365 days a year via a customizable user interface within the Sandvik portal, with data being automatically transmitted every ten minutes.

Sandvik My Fleet will be available for Premium (Q) Range crushers in Q3 with the option to follow shortly afterwards for the Sandvik range of mobile screens and scalpers, in addition to our Heavy-Duty range.



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A NEW WORLD OF RESOURCE

## The new tracked CMB International RC150 Rubble Crusher attracts lots of interest at the Hillhead exhibition



**This year's three-day Hillhead Quarry Show at Buxton, Derbyshire attracted big crowds and wonderful hot sunny weather which was a massive bonus after the last edition in 2016.**

It was also all smiles and lots of interest on the CMB International stand as their long awaited tracked version of their CMB RC150 Rubble Crusher took 'pride of place.'

Liam Holland – General Manager of CMB, commented, "We are very excited about the new tracked version which contains many innovative features. There has been significant interest and serious enquiries over the three days at the show. We demonstrated the machine, and this proved beyond a doubt what a versatile performer it is."

Loaded with new innovative features the new tracked version is a serious contender in its weight class offering tremendous throughput. It is without a doubt the ultimate, self-contained mobile crusher

Brimming with new features the plant uses the successful 650mm x 350mm single toggle jaw crusher from the RC150 plant, with the addition of hydraulic setting adjustment and direct hydraulic drive. Weighing in just under 6 tonnes the crusher is mounted on a high speed VTS track-set with interchangeable rubber or steel track options.

The RC150 Rubble Crusher is the ultimate, self-contained mobile crusher; a simple but extremely effective machine. A robust build coupled with minimal maintenance the RC150 is easily transported to your destination of choice to crush or



recycle material, with immediate start-up to produce crushed material. The RC150 Rubble Crusher has numerous applications:

- Recycling
- Demolition
- Infrastructure
- Relief Aid
- Medium sized aggregate crushing applications

The advantages of the new RC150 Rubble Crusher enable the user to become time efficient and eliminate unwanted costs by crushing on site enabling re-use immediately.

Environmentally friendly, the RC150 Rubble Crusher is a true 'green' machine with huge cost savings instantly available eliminating landfill costs, skip hire, transportation costs, external crushing and bought aggregates from quarries all removed from the processing equation.

## Eriez Europe's Solution to Optimum Metal Recovery

### Metal Recycling

Metal recycling is an essential component of the wider circular economy. Provided the correct separation processes are put in place valuable non-ferrous material can be extracted from residential and commercial waste and injected back into the economy as secondary raw materials. The reuse of these materials reduces waste and pollution, saves natural resources and protects the surrounding environment from potential industrial mining.

### Problem

Metal recycling inevitably experiences many challenges, the most common being the growing complexity of modern day product design. Today, the fabrication of vehicles, transportation, construction, consumer goods and everyday household objects contain a number of metal components, making the separation process increasingly difficult.

### Solution

Through wealth of knowledge and experience Eriez Europe are able to recommend the best metal recovery solutions available to the metal recycling industry. Eriez manufacture a wide range of magnetic separation equipment for the metal recycling industry including Eddy Current Separators (ECS), designed and developed for efficient recovery of non-ferrous metals from a variety of waste streams. Eriez ECS are available in size ranges from 0.5 to 2 meters wide with magnetic rotor designs to suit specific separation objectives.

The latest ST22 high-gauss ECS has been refined through extensive research and material testing to minimise magnetic field loss over distance. Subsequently, the ST22 is able to offer



unparalleled recovery rates of non-ferrous metal as small as 1mm. This model is frequently utilised in fine waste streams such as PET flake and Waste Electrical and Electronic Equipment (WEEE).

For the recovery of non-ferrous metals from larger waste streams, Eriez developed the LT2 deep field ECS for maximum recovery of particles larger than 25mm. The successful applications for this model include Scrap Metal recycling, Biomass and Incineration Bottom Ash (IBA).

Eriez recently re-developed the LC "Can Separator" ECS to remove oversize non-ferrous metals, such as aluminium cans. The LC ECS has proven highly popular for its economy, efficiency and ability to achieve 95% aluminium recovery with 95% purity in household waste processing.

For more complex waste streams, Eriez have built a fully equipped recycling test centre allowing metal recyclers to trial their material on a full range of separation equipment. Eriez then work with waste processors and recyclers to ensure the best metal recovery solutions are achieved.

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## Customer hails new X SERIES as the best JCB has ever made

**One of the first new JCB X Series tracked excavators to roll off the production line has been put straight to work just a few miles away from the JCB factory where it was built.**

Purchased by Ashbourne-based civil engineering contractor PM Harris Ltd and supplied by dealer Gunn JCB, the machine is carrying out groundworks at JCB's own Compact Products and Earthmovers factories in Cheadle, Staffordshire. It is working alongside existing JCB tracked excavators and site dumpers from the PM Harris fleet as part of the company's contract to carry out drainage work and the construction of new car parks at the site.

The brand new JCB 220X - a 20-tonne tracked excavator model, launched earlier this year - has been designed to provide maximum operator comfort, durability and reliability in operation. Over a four-year development period, JCB has undertaken a programme of intensive component and product testing, to achieve increased levels of build quality and reliability for customers in this advanced new machine.

PM Harris Ltd Operator, Wayne Goring said: "I've operated 360° excavators for nearly 19 years and this new JCB 220X is the best 20-tonne model I've ever experienced. It is the best machine JCB has ever made.

"What a dream it is to drive. It's fast, powerful and smooth. The cab is amazing, with loads of room and a comfy seat. The computer and quick hitch are very easy to use. This machine will take some beating."

PM Harris Ltd, Director Paul Harris said: "We chose the new JCB X Series because of several key factors. The layout in the

cab is excellent and the hydraulics are faster giving us greater fuel efficiency and productivity.

"We like to support a local, British manufacturer and have been using JCB equipment since we founded the business. In that time we've built an excellent relationship with our dealers who are great to work with and deliver on sales, parts and service. Another major advantage of choosing JCB is the LiveLink telematics system which proves extremely valuable to us for its security features."

The new JCB 220X features a 15% larger cab with integral ROPS structure, reduced noise levels, simple user interface and stronger side doors for greater strength and increased protection. They also benefit from a central main boom mounting for increased digging accuracy and durability, and a 200mm wider upper structure which delivers improved packaging.

PH Harris Ltd was established in 1975. The company specialises in groundworks and civil engineering services including road building, bridge building and demolition and has developed a series of long term relationships with leading construction firms enabling major projects across the UK. Its extensive fleet - over 50% of which is JCB equipment - includes backhoe loaders, site dumpers, compaction equipment and both tracked and wheeled excavators.

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# Registration for the is open!



**Registration for RWM, the biggest event of its kind within the UK with regards to recycling and waste management, is open now! Recycling, waste and the lasting effects on our environment are topics that have quickly become a focal point for countries and businesses alike. RWM fills the halls of the NEC on 12 and 13 September, and with its well earned reputation as the biggest and best, it's essential that the most innovative, ingenious and useful products and services be exhibited.**

Because of this, RWM boasts not only the most established names within the industry returning for another successful year, but also some of the newest startups offering groundbreaking advancements in an industry that is evolving year on year. RWM is ecstatic to have brands like JCB, Mercedes Benz, Toyota Material Handling, Saint Gobain, Veolia and Viridor making their presence felt on the exhibiting floor. These huge brands have helped shape the industry to what it is now, and their constant innovations continue to push the envelope further.

"JCB have been supplying Waste & Recycling equipment to the Industry for over 30 years, so we felt it was important to have a presence at the 2018 RWM Exhibition for our customers. The exhibition has always been a meeting place for the Industry, a place to learn, educate ourselves on sector developments, but more importantly to build future alliances and partnerships" explains JCB Sales Manager David Banks. Getting the chance to rub shoulders with individuals and brands the size and scale of JCB, either from a visitor or an exhibitor point of view, is a networking opportunity few are able to experience!



Making sure to celebrate the pioneering attitudes of the exhibitors and recognise their successes, the Innovation Awards will be held across the event. Every exhibitor will have the opportunity to be nominated for an Innovation Award, and will provide a proud moment as the cherry on top of the successful exhibiting time RWM will be providing.

RWM has built a reputation that reaches far and wide. The issues and topics that are at the centre of RWM affect the globe universally and so having space for international solutions is essential for the diversity of options available across the two days. Katmercil, Ceksan Sweepers, Hitachi Zosen and XT Pack, who are making the monster journey from China, make up a handful of the amazing international brands making the ! Recognising the fantastic opportunity that an event like RWM can provide, having these companies solidifies how the industry is flourishing with diverse solutions and the fact that RWM provides the ideal platform and target market to give exhibitors the best boost possible results in all that travel making perfect sense.

There are still lots of opportunities for new exhibitors to come on board ahead of the show. With 12,000 decision makers attending the show and the brand awareness that comes with appearing alongside names like JCB, RWM will provide a fantastic platform for your company. Get in touch with Event Director Nick Woore at [nick.woore@prysmgroup.co.uk](mailto:nick.woore@prysmgroup.co.uk) or on 0117 929 6083 to inquire about the opportunities.



# Magnetic Separators greet visitors at RWM

**Bunting Magnetics and Master Magnets have booked the stand greeting visitors as they enter through the main entrance at this year's RWM recycling and waste exhibition (NEC, Birmingham, UK 12-13 September 2018).**

"After last week's RWM Digital Marketing Masterclass in London, we got together with Nick and the new RWM team and talked through the best way forward," explained Dave Hills, Bunting's Head of Sales. "Everyone wants this show to be a success and so have taken the bold step of securing the stand opposite the entrance to the show. Our aim is to have our stand full of working equipment to immediately capture the imagination of the visitors."

Bunting Magnetics has been gradually increasing their presence at the show over the past 5 years.

"We started with a small stand at the back of the hall," said Dave. "Over the past few years our presence in the recycling industry has grown, especially when we acquired Master Magnets [January 2017]. And our stand has gradually increased in size and moved towards the show entrance."

On the larger stand, that will greet visitors to RWM, Bunting and Master Magnets plan to exhibit a wide range of Metal Separation equipment including:

- Stainless Steel Separator (HISC and SSSC);
- MasterMag Eddy Current Separator;
- Industry standard Permanent Overband Magnet;
- Metal Detectors;

"Exhibiting working equipment at exhibitions has always worked for us," said Dave. "Seeing is believing and that starts at an exhibition. Last year, visitors saw the separation capabilities of our stainless-steel Separator and Eddy Current Separator and subsequently conducted tests in our laboratory at Redditch. We want to demonstrate what is possible with our new and innovative technology."

The stand at RWM18 will be the largest Bunting and Master Magnets has ever had in Europe.

"As one of the biggest manufacturers of metal separation equipment in the world, we wanted to make a bold statement. We have some great ideas for visitor engagement at RWM and are already starting on our planning!"

For further information on Bunting Magnetics and Master Magnets and our range of metal separation equipment designed for the waste and recycling sector, please visit our website or contact us on:

Phone: +44 (0) 1442 875081

Email: [press@buntingeurope.com](mailto:press@buntingeurope.com)





## Liberty House Group gears up for green steel with new Liebherr material handler

- Liberty House Group has host of initiatives to produce green steel in the UK
- Company identified need for new non-standard material handler to process raw ingredients at Rotherham plant
- Liebherr LH 120 gantry-mounted material handler added to material handling fleet after procurement process

**One of the UK's largest producers of speciality steels, Liberty House Group, is gearing up a pair of electric arc furnaces at its Rotherham plant to produce half a million tonnes of high quality end product. To cope with this increase in output and support the company's bid to produce green steel in the UK, the Rotherham plant will need to process over 500,000 tonnes of incoming recyclable material. This operation requires a non-standard material handler and Liebherr was invited to take part in the procurement process, which resulted in Liberty House Group's purchase of a new Liebherr LH 120 gantry-mounted material handler.**

Formed in 1992 by Sanjeev Gupta when he was still at Cambridge University, Liberty House Group focused on trading in Africa and Asia before concentrating on the steel and metals industry. As a result of a series of UK industry acquisitions, Liberty House Group became one of the largest producers of speciality steels in the country with plants in England, Scotland and Wales.

Among the acquisitions was Speciality Steels, which is predominantly based in South Yorkshire. The business supplies speciality steels worldwide and prides itself on delivering exceptionally high quality material suitable for use in the aerospace, engineering and automotive industries. Its Rotherham site is among the largest and has a pair of electric arc furnaces that are being geared up to produce half a million tonnes of high quality end product in various grades over the next few years.

To cope with this increase in output and to support Liberty House Group's bid to produce green steel in the UK, the plant will need to process over 500,000 tonnes of incoming recyclable material that is fed into the plant in specific mixes depending on the type of material being produced.

The raw ingredients for each batch are loaded into a scrap basket before being tipped into the furnace. Each scrap bin weighs over 50 tonnes when empty, is loaded with over 100 tonnes of raw material, measures over 4 m in height and needs to be carried around on specially designed heavy-duty transporters. The company required a new material handler for this operation but this is not a 'standard' material handling task.

Ryan Stencil is Mechanical Section Engineer at the Rotherham plant and was instrumental in the procurement process that led to a new Liebherr LH 120 gantry-mounted material handler being added to the on-site material handling fleet. 'We have never had a Liebherr on our fleet before. I have always believed, and been told, that they are by far the best machines for this application but are extremely expensive. This cost has been prohibitive in the past, but we decided to give them an opportunity to be involved in the tender process along with the Group's regular suppliers.'



Liberty House Group's new  
Liebherr LH 120 gantry-  
mounted material handler



Central requirements for the large material handler were its ability to reach the various grades of material along the loading area, the need for the operator to see inside the scrap bins (as careful layering of the material is required to provide a good material mix), longevity and low operating costs. Liebherr's Area Sales Manager Carl Longhorne dealt with the initial enquiry before handing over to local Sales Manager Andy Foster and Materials Handling Specialist Mike Hanlon who were instrumental in delivering the required specification along with a very attractive package to seal the deal. 'What we have purchased is probably the Rolls-Royce of material handling machines,' Ryan said. 'The overall package from Liebherr far outweighs that of the competition and coupled with the amazing build quality it has made us realise that we should have looked at Liebherr before.'

The LH 120 has been specified with a gantry-type undercarriage that lifts the body of the crane over 7 m from the ground. Support from a pair of 8.5 m long crawler frames riding on 750 mm wide pads gives the material handler an extremely stable stance. Access to the huge operator's cab is via a network of galvanised and well-lit ladders and access platforms. 'The cab is such a modern environment compared to our other material handlers,' Ryan comments. 'The layout is very good and the vision, thanks to the large glass screens, is also very good.' To ensure the weight of the material loaded into each bin is accurate, a wireless load sensing system sends the exact weights from the basket to a screen inside the cab. The large upper structure is home to a Tier 3B Liebherr diesel engine and, thanks to the cavernous housing, allows easy access for maintenance and servicing.

The LH 120 is available with a variety of boom, dipper and attachment combinations. The Liberty House Group machine is equipped with a 26 m reach and a 1.5 m<sup>3</sup> capacity TGS five-tine grab. The large working range enables the operator to reach the different grades and types of material along the loading bay with ease. The added height of the cab complete with its 2.5 m fixed riser gives the operator an almost 9 m sight line from the ground, making it easier to load the large scrap bins. Working quickly and effectively to load the bins in a variety of layers, the Liebherr's smooth operation has impressed the management and operators alike.

The material handler has been purchased with a comprehensive service arrangement from the manufacturer as Liberty House Group realises that it is the front-line loader when it comes to keeping its operations on track. 'We had an issue with hose couplings early doors but have resolved this by doing away with quick couplers and routing the hose connections with a permanent coupler. Whilst this wasn't Liebherr's issue, it was something they looked at and helped us resolve. There have been some other minor issues that have been quickly resolved by the Liebherr service team in Sheffield with the crane running extremely well after bedding in.'

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## Vortex Assists Sanitation Efforts at a Waste-to-Energy Facility

**In 2007, a county sanitation district approached Vortex to discuss a process need in their waste-to-energy power plant. Under their previous process, the plant used manually actuated slide gates to isolate a hopper, filled with incinerator bottom ash and fly ash, from a drag chain conveyor. When the gate is opened, hot ashes discharge into the drag chain conveyor. As the hot ashes convey, they cool before being evacuated from the process.**

Of the pre-existing slide gates, the plant had two primary complaints:

- Though the gates were manually actuated, they did not actuate well. A sledge hammer was needed to drive the gates closed. To be reopened, each gate required maintenance and downtime. These processes were cumbersome, labor-intensive and were performed weekly.
- The gates often leaked steam and materials to atmosphere. When steam is leaked to atmosphere, it reduces the efficiency of the steam generator – which also reduces the total output of electricity. Because some municipal solid wastes also contain hazardous materials, this can create health and safety concerns if ashes are leaked to atmosphere.

The Vortex Aggregate Gate was recommended as the solution to each of these problems.

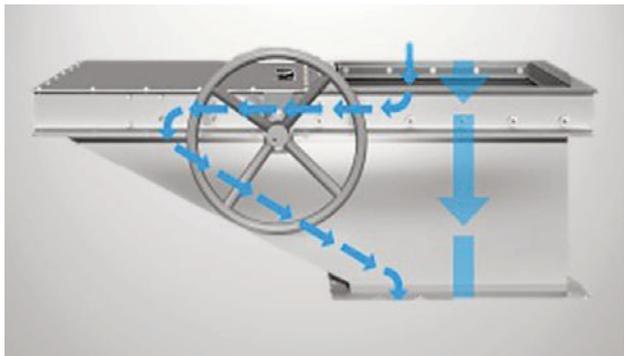
### Gate Specifications:

- Size: 18 in | 455 mm
- Pneumatically actuated, using a double-acting air cylinder actuator.
- Rated for handled material temperatures of 400° F | 205° C (max.) continuous service.
- Bonnet seal to hinder materials from migrating into the bonnet area.
- Return pan to contain fine materials.
- Valve body, blade & material contact areas constructed from 304 stainless steel, to resist oxidation & corrosion.
- Blade rollers constructed from 304 stainless steel & bronze.
- Roller spacers & bonnet blade guides constructed from 25% glass-filled Teflon™.
- Side seals, end seal & upper bonnet seal constructed from high-heat rubber belting.
- Air cylinder seals constructed from Viton™, for temperature resistance.
- Air cylinder equipped with a magnetic piston, to accommodate magnetic reed switches for blade position indication.

By introducing pneumatic actuation, the Vortex Aggregate Gates are able to be opened and closed quickly, simply, and without significant manpower.

On the opening stroke, each gate's bonnet seal acts as a "squeegee" to force materials remaining along the blade to fall away into the process line below, rather than migrating into the bonnet area.

When using a return pan, on the top part of the gate, a solid



bonnet cover is used. On the bottom part of the gate, the return pan replaces the lower bonnet cover. As materials migrate into the bonnet area, rather than building up, they are deposited down onto the return pan, to be reintroduced into the material flow stream.

### Benefits of a return pan include:

- An inexpensive way to prevent dusting to atmosphere. This improves housekeeping and workplace safety, and prevents product loss.
- An effective solution to prevent material build-up in the bonnet area, which could otherwise cause gate actuation issues.

Today, this waste-to-energy power plant operates six Vortex Aggregate Gates, all of similar design.

# THE PERFECT PART

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and Molson Green have joined together to take over the distributorship of material handling machines for industries such as waste, recycling and timber handling industries.



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## Recycling is just one of Olivibra's focuses

**OLIVIBRA UK part of OLIVIBRA S.p.A group and the Worldwide leader in vibration technology, founded in Italy in 1961. A wide range of products that satisfy the most demanding applications. Solutions for many sectors including RECYCLING is just one of OLI's focus.**

OLI's vibrating motors comply with the latest INTERNATIONAL standards for use in Hazardous locations, such as Atex and UL normative. We match our competitor's footprint and allow easy retrofit of existing machines. OLI has been present in the UK market since 2013 and has now opened its latest official branch in Nottingham featuring local trained staff and a large warehouse, capable of matching the lead times requested from our customers. The key centre piece of OLI's business strategy is rapid stock delivery, any time, any place in the world.

For this purpose, three production sites were set up in the main regions of the world and subsidiaries were opened in 19 countries. In consequence of which the motto of our company "WHEN YOU NEED IT, WHERE YOU NEED IT" has a deeper meaning.

OLI's paramount objective is to establish a mutually beneficial relationship with our customers, who are a key influence in shaping the company's business model. Meeting the customers' needs is a priority, achieving a trustful partnership is the reward. By supplying competitive high-quality products for wide ranging applications, OLI combines performance and reliability by adapting to the ever-changing market. A strong believer in innovation, OLI is constantly striving to be ahead of the curve and new products are constantly being developed to complement our range.

## Sheehan's, continue to raise the standard!



**Oxfordshire's based Sheehan's Contractors have recently taken delivery of the Arjes 250 Impaktor from Doyle Machinery, to strengthen their fleet and continue to add value and choice to their clients.**

The Arjes 250 Impaktor, using innovative shredder technology successfully processes mixed C&D waste, glass concrete rail sleepers, tarmac, aluminium wheel rims, green waste, and wood waste.

Sheehan's tested the machine on multiple applications, including clean 70mm to be processed to produce a quality grade 30mm down product to help satisfy the market needs. The machine was also tested on grade B and C wood to feed the CHP plant, which being successful, provided Sheehan's with the perfect combination of operational flexibility and value for money.

The material is loaded into the hopper by an excavator, it is then crushed by the two rotating shafts which have a number of various settings, including, synchronously or asynchronously operational features. An automatic reversing function allows the machine to be protected against major damage to the crushing tools, and allows the chamber to be self-cleaned ensuring efficient material flow. The wear tools are Creusabo 8000 steel, allowing for the maximum wear life, low maintenance and replacement costs.

Another highly versatile feature is the machine has side combs which can be opened or closed to produce 60mm down, or 120mm down, depending on the waste stream. Sheehan's needed to produce a smaller product and with true to form innovative thinking, Doyle Machinery provided the solution.

Key features of this machine include, 13.5 tonnes in weight allowing for transport via hooklift or low loader, a powerful magnet ensuring excellent separation, wireless remote control operation direct from the loader's cab, low maintenance due to sealed for life bearings, variable speed product belt, a powerful Volvo Penta Engine and low noise emissions.

## We got it wrong...

In our bumper issue 50 we inadvertently cross pollinated three stories. The MST article on p21 carried the wrong lead (Martin Engineering) image and the MCT article on p105 carried the wrong text.

# SWM Waste Recycling smart choice

**Barnstaple based waste recycling company SWM & Waste Recycling Limited make a carefully considered choice and move to Sennebogen with a new 830E scrap handler and 821E material handler.**

Established in 1959, SWM has been a long standing and trusted part of the South West recycling community, and have built their reputation by exceeding customer expectations and delivering high levels of service. Today the business offers a full range of Waste Recycling services including Total Waste Management, Skip Hire, Wheeled Bins, Skip Bags, Vehicle Dismantling, Metal Recycling and Hazardous Waste management, with a Zero waste to Landfill target, and a culture that puts Health & Safety at the forefront of everything they do.

Now with Ray Penfold & Shawn Akers, the second generation in the family to own the company and Martin Mogford as MD to run the business at the helm, the business still holds the family values on which it was originally based.

Shawn said "we have a tight knit team of long standing employees that we know and trust. They have all played a big part in our successes over the years." It is clear from this approach why Shawn has made sure his staff had such a

large input into this recent purchase decision. "It is important to us that the guys operating the machines are happy with them. Their input was key to the decision to move away from our previous supplier that we had been buying from for many years."

Steve Palfreyman, SWM Maintenance manager went on to discuss the rigorous process that was undertaken to compare the comparable machines available in the market when purchasing their latest scrap handler: "Of course the price is a factor, but it is only part of the decision-making process we went through. We spent a lot of time evaluating the safety features and the true-life cost of each machine, considering purchase price, fuel consumption, servicing costs and anticipated residual values."

"We compared the machines on paper, before getting the best options for a hands-on trial to put



them through their paces, it was then that the Sennebogen really stood apart from the competition". Steve went on to talk about the differences they identified between the Sennebogen 830E and the competitors equivalent: "we found we got about 1m additional reach with the Sennebogen, and we also preferred the uninterrupted operators view thanks to joystick steering option (no steering wheel column blocking line of sight), as well as the build quality and reliability of the Robotec 0.8m capacity orange peel grab attachment that came with the Sennebogen."

Both Shawn and Steve were very keen to point out that as part of their purchasing process, it wasn't all about the machine; they also looked closely at the business we would be buying from and looked for a company which had similar outlook and principals, it was obvious from the first few



conversations that this was the case. Steve said: "confidence in the aftersales backup is critical for us. We run multiple busy sites and a machine down can soon cause big headaches. Although we have not had to call on Molson yet, the proximity of Molson's Bristol depot and the scale of their operation give us confidence that they can get us going when called upon."



# Recycling Made Mobile

**The HUB-4 team visited M&K during Hillhead 2018 to take a look at their brand-new range of recycling equipment. M&K are an expert in the design and manufacture of end-to-end innovative & efficient materials/waste processing technology, combining unparalleled technological manufacturing capabilities with decades of marketplace and application expertise. M&K design, manufacture & support, static & mobile Waste Recycling Solutions for RDF, SRF, C&D, C&I, Co-Mingled, Compost & Trommel Fines applications.**

All eyes were on the new range of Mobile Recycling Equipment that M&K officially launched in front of customers and dealers at Hillhead 2018. Visitors got their first glimpse of the new machines that combine a wealth of application and process knowledge, with proven components, new technologies and striking new designs – all providing cost effective and productive solutions to fulfil the needs of today's Waste Recycling customers. In addition, customers and dealers were also briefed on M&K's ambitious mobile recycling technology development strategy that will realise the release to market of 6 new mobile waste recycling machines in 2018 & 2019.

We spoke with Desmond Rafferty, Managing Director of M&K who told us more "The industry has always looked to M&K to define the future of Waste Recycling - whether that be Artificial Intelligence & Robotics or recycling on a mobile platform. Hillhead 2018 is the perfect showcase for our new innovations and to demonstrate to the industry that M&K will continue to lead the way. The Waste Recycling Sector is undergoing changes, particularly in the UK & Europe. Waste Contractors/Waste Recyclers are being forced to raise standards of the final products. In the recycled aggregates sector, the quality of the products that are being produced has to rise to meet the rising standards demanded of aggregate customers. M&K will provide Waste Contractors/Waste Recyclers with solutions to these problems".

With customer input key to the development of the new mobile recycling range the products have undergone extensive field testing – with very positive results. One such customer is David Hamilton from Hamilton Waste & Recycling in Edinburgh.

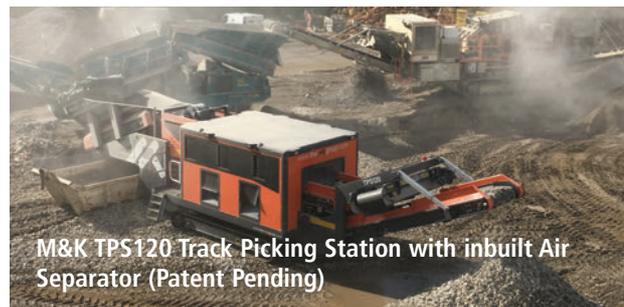
David Hamilton, Managing Director explained "M&K have been a valued partner to Hamilton Waste & Recycling for the last decade or so. When M&K asked us to test the TPS120 Track Picking Station (Patent Pending) we were so impressed that we actually bought the prototype. The TPS120 is a very innovative machine and cleverly balances functionality with mobility. The variable speed feeder and Air Separator are unique on a mobile picking station. We utilise the TPS120 in various applications including aggregate clean-up, hardcore clean-up, Wood Recycling & Metal's clean-up. We are delighted with the machine".

## Evolution to Revolution

Nigel Rafferty of M&K was also on hand and explained "M&K are not, and have never been, just a plant builder in the sense that M&K design and manufacture all the key recycling technologies, including Trommels, Waste Screens, Flip Flow

Screens, Air Density Separators, Eddy Current Separators, Shredders & Automation & Control Systems, rather than just conveyors and walkways. The evolution into the development of mobile recycling technology is natural for M&K, given our background in the mobile screening and crushing industry in the 1980's & 1990's. In practical terms it involves M&K re-engineering our existing, proven technology, on a mobile platform in order to create a product with the perfect synergy of function and aesthetics. We are extremely proud of all our employees that worked so hard to complete designs and manufacture & assemble the mobile products so quickly - all while we designed and built a huge Artificial Intelligence Powered Robotic Waste Sorting Plant on the other side of the world".

## Products launched at the Hillhead 2018 Exhibition



M&K TPS120 Track Picking Station with inbuilt Air Separator (Patent Pending)



M&K TSW125 Track Waste Screener

The M&K TPS120 is a revolutionary addition to M&K's world-beating Waste Recycling Equipment range utilising key technologies developed over many years. The innovative combination of Heavy Duty Belt Feeder, Air Separation System, Picking Belt & Cabin and Magnet all on the same tracked chassis brings indisputable benefits. In addition to cost savings from the diesel-electric power unit, easy transport and improved safety, the quick setup times of the TPS120 increases the effective production time and consequently the production capacity.

The new M&K TPS120 Track Picking Station with Air Separator is the right choice for waste recycling operations. It's heavy-duty design guarantees a reliable solution and high capacity, even with the harshest feed materials. The TPS120 operates electrically by using the on-board diesel generator or by plugging into an external power source when an external power source is available or when the unit is being used

inside a building. The intuitive, intelligent, process control system ensures safe and reliable control of the recycling process. By combining the M&K TPS120 with an M&K TSW125 Track Waste Screener and a TAS180 Air Density Separator, M&K can provide a fully mobile alternative to processing waste through a static system. In addition the TPS120 is available as a modular static option. Weighing 20 tons the M&K TPS120 is easy to transport and is ready for action immediately on arrival to site.

The M&K TSW125 Track Waste Screen has been developed specifically for recycling applications. M&K have been designing and manufacturing screens since 1977 - indeed screens have been a core offering since the company's inception and M&K have delivered 1000's of screens across 5 continents over 40 years in various different applications. M&K Waste Screens are synonymous with high screening efficiency, large open screen surfaces, high throughput and effective screening due to the high amplitude and high acceleration. It is this technology at the heart of the TSW125 that will deliver the highest screening performance and maximum screening quality with a throughput that is almost completely blockage free and allows finer material to be processed in difficult weather conditions - all on a mobile platform.

### Looking forward

Nigel Rafferty added "We're looking forward to embarking on the next phase of our growth and building the capabilities required to expand and deliver high-quality static & mobile waste recycling solutions into new markets & territories."

### #RecyclingMadeMobile

A final word from Desmond Rafferty "All business owners want to maximise profits in a sustainable way. For Waste Companies, the key challenge is to improve recycling rates,

minimise costs and maximise production to the lowest possible cost per produced ton, while being application & operationally flexible and providing for a safe working environment".

For more information on M&K please visit [www.the-mkgroup.com](http://www.the-mkgroup.com)

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### DOYLE MACHINERY – ARJES RECYCLING INNOVATION

Doyle Machinery are one of the leading suppliers of recycling and materials processing equipment. We are the sole Partner distributor and importers for Arjes Gmbh Recycling Innovation Equipment for the UK and Ireland. Doyle Machinery and Arjes develops individual shredding, crushing and screening solutions for processing waste wood, green waste, biomass, plastics, paper, domestic and industrial waste, scrap metal, used tyres and other materials.



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## Warwick Ward help North West Recycling increase output with two new machines

**North West Recycling (NWR) of Carlisle, Cumbria employ over 90 people at their 16acre site in North West Carlisle, they specialise in skip hire, C & D and I & C waste recycling and the supply of recycled and quarried aggregates to the local area. Processing over 100,000tonnes of material every year they need equipment that will handle the throughput and demanding environment.**

Warwick Ward, their long-standing equipment partner have recently installed a new Case CX130D excavator fitted with a hydraulic sorting grab and a new Terex Ecotec TDS 820 Slow Speed Shredder to improve the site output and increase productivity.

We talked with Dave Bamber, who manages Operations on behalf of NWR.

“We built up a relationship with Warwick Ward following the purchase of the CASE CX130D Excavator. Several Companies had demonstrated their 14 tonne excavators and with feedback from the Site Plant Operatives we decided the CASE was the right choice. The machines work in dusty environments and so the design of the Cooling system was a particular attraction of this machine. 10% lower fuel consumption and lower maintenance costs were also key features.

Whilst we continued to grow as a company and became more efficient with our operations we needed a mobile shredding unit to reduce bulky waste going to landfill. Again following several demonstration units we decided that The Terex TDS820 Slow Speed Shredder was the correct choice. We originally hired the shredder from Warwick Ward on a 6 month hire contract, but we were so pleased with the machine and the results that we are achieving, we decided to buy the machine after 3 months. We especially liked the Terex Ecotec TDS 820 Slow Speed Shredder as it had the independently driven twin shaft shredding chamber that handles all the different kinds of material here with ease. We are also happy with the user-friendly features, ease of maintenance, low running costs, the tonnage that we can produce and the fact that we now have zero bulky waste going to landfill. Since the purchase of the Terex TDS820 Slow Speed Shredder we are now looking at other products from Warwick Ward to help with our SRF line as their service has been excellent”.

### Terex TDS 820 slow speed shredder

The Terex TDS 820 slow speed shredder is purpose-built to process all types of material, whether it is domestic, industrial or bulky solid waste. This industrial shredder features customizable shredding programs that give operators the opportunity to configure the machine to their specific requirements, reduce material wrapping and maximize production. Designed with independently-driven shafts, this double-shaft slow speed shredder is assured to give machine operators excellent performance in even the most challenging of applications. The TDS 820 includes a hydrostatic drive that provides increased protection against contamination and allows for bi-directional shredding as well. Its 2-meter long shafts are manufactured with a fully-welded tooth



Terex TDS 820 slow speed shredder at NWR

configuration, which makes for massive throughput and excellent material reduction. Its independent gearboxes enable each shaft to be run separately to reduce material wrappage for effective shredding operations.

Additional features include the tipping feeder which increases the feed area. Hopper extensions provide increased capacity in bulky applications. The TDS820 is powered by the following engines dependent on geographic area and emission regulations; Scania DC13 330kw (440HP) Tier 4 final for the US and EU, Scania DC13 371kw (497HP) constant speed for the EU and the Scania DC13 331kw (440HP) Tier 2 for RoW.

### CASE CX130D excavator

The new CASE CX130D excavator provides greater fuel efficiency, more digging power, higher lifting capacities and better controllability. In addition to the high precision and smooth control of our CASE Intelligent Hydraulic System, the CX130D has a new electronically controlled hydraulic pump, a larger control valve and solenoid valves. Maintenance is easy with standard oil sample ports and grouped service points.



CASE CX130D excavator working hard

Warwick Ward offer customers the option to hire for a set period giving them the chance to check on the suitability of the machine and the viability of any processes prior to buying the machine outright or financing on an operating lease basis. Hire also gives the option to cover both breakdowns and temporary upturns in production. For more information on Warwick Ward please visit [www.warwick-ward.com](http://www.warwick-ward.com)

# Metal Recycling gets the Hardox® Touch



**Recycling metal is a tough battle between the recycling equipment and the material being recycled. The right wear parts can add more hours of trouble-free production and minimize the cost for maintenance and standstills. Many metal recycling plants face a situation where every hour of shredding needs one hour of maintenance so changing this in favour of more uptime is key.**

Hardox Wearparts® is a global network of wear service centres. They produce parts made of the industry-leading Hardox® wear plate, Duroxite™ overlay products, Strenx® performance steel and Toolox® engineering & tool steel. Every service centre has access to wear specialists with the latest knowledge in wear part design, production and performance. These top-of-the line steel brands together with repair equipment and on-site services make Hardox Wearparts® centers one-stop shops for wear products and services.

As a global initiative, there are Hardox® Wearparts Centres operating in more than 40 countries around the world. In the UK, there are now 12 strategically located Wearparts Centres, from Scotland in the north, Northern Ireland through to South Wales and South East England covering all the primary industrial centres. Each Hardox® Wearparts Centre has access to the complete product programme and full technical support provided by SSAB for its Hardox® brand, which translates to an extremely comprehensive offering of wear parts and services.

One of the benefits of using Hardox® Wearparts Centres is their access to literally thousands of wear products. Examples of these, and more, can be found at [www.hardoxwearparts.com](http://www.hardoxwearparts.com)

Accuracy and product quality are key drivers in the business and linked to this significant parts resource, enables replacement wear products to be manufactured, often to higher specification standards, to suit customers specific

operating requirements. Hardox® Wearparts Centres will undertake the complete replacement or upgrade of a wear part, from initial discussion and site visit, specification recommendation, design and manufacture to installation.

With their strategic regional locations, Hardox® Wearparts Centres can often react faster to get replacement wear parts installed quicker than many traditional sources and this, coupled with their knowledge and support through SSAB has proved to be a winning combination for its industry customers.



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This impressive range of steels, each with their own unique characteristics, will be sure to improve the wear performance of your products and machinery, cut lead times in your workshop and increase the productivity of your operations.

For more information please visit [www.hardoxwearparts.com](http://www.hardoxwearparts.com)

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# A recycling plant that meets everyone's requirements!

**Green Planet, based in Norwich, have recently taken ownership of a Kiverco recycling plant. Both companies engaged in an extensive consultation process to ensure that not only were their own commercial objectives met, but also that the plant met the requirements of others, such as neighbours and the local authority.**

With the company growing rapidly, Green Planet soon required a static recycling plant to replace their current Kiverco mobile plant. They currently recycle a range of materials: plastics, cardboard, metals, construction and demolition waste. Recycling these materials in higher volumes and meeting higher environmental targets were some of Green Planet's own objectives. At the same time, they also had to ensure that requirements from neighbours and the local authority were also met. Through various consultations, Kiverco were able to advise on solutions to minimise noise and dust emissions such as fitting the conveyors with covers and installing the feeder and 830 Trommel inside the main building. The 7-bay picking station has been painted in a special colour to blend in more effectively with its surroundings. Extensive walkways also enable safe and rapid access to all key points on the plant.





## How the Process Works

From the feeder and trommel, the waste material is split into a 0 - 40mm fraction and an oversize fraction. The smaller fraction passes under a magnet, to remove any ferrous metal and then into a Spaleck Flip-Flow screen and a DS150 density separator. Working together, these two machines process this waste stream to produce a clean -10mm material, a 10mm - 40mm heavy fraction which can be used in the production of recycled aggregates (thereby helping to meet targets to divert material from landfill) and a light residual waste which becomes an element in an RDF type material. This part of the process is known as "fines clean up", and it was added to the system to meet the 10% LOI (Loss on Ignition test).

The oversize fraction passes into a bespoke picking cabin, where operatives manually segregate products such as wood, plastic, paper to be recycled. The remaining fraction then passes out of the picking cabin and under another ferrous metal magnet and through a blower, to remove any residual light material. The result of this process is the creation of a clean heavy material which can be further reprocessed if required, into a recycled construction material.

## Green Planet's Commitment to Recycling

As well as the new Kiverco recycling plant, Green Planet has invested over £420k in newer vehicles with better MPG and lower emissions and by February 2019, they will have invested a further £1.3m in equipment and trucks.

Director, Keven Nixon says, "Our company has always promoted the virtues of responsible recycling as a means of achieving a whole host of objectives, from keeping space in landfills to helping the environment. Our recent investments demonstrate how seriously we take our responsibilities. Now with our new recycling system, we can now recycle waste materials in higher volumes than ever before and meet even higher environmental targets. We have been really impressed with Kiverco's consultation process and how they designed elements of our plant to accommodate some of our requests. The installation was completed within three weeks and we were more than delighted with the end result."



## Volvo EC140E goes to work on the farm

**A new Volvo EC140E excavator has been delivered to a large, family run dairy farm near Portpatrick, Stranraer, in Dumfries & Galloway thanks to sound third-party references and a specification that impressed its new owner Kenneth McNeil.**

The new fourteen-tonne excavator replaces an older, competitive model and will be put to immediate use maintaining the ditches and general drainage on the 750 acres which make up Cairnpat Farm. "Due to our location at the south-western tip of Dumfries & Galloway we receive more than our fair share of rain every year," comments Kenneth McNeil. "So it's absolutely imperative we maintain our ditches and drainage systems in order to produce good quality grass which we turn into silage for our dairy herd. We've run our own excavator to carry out this work for a good many years but needed to replace it as it was getting a bit long in the tooth (we originally purchased it secondhand) and decided buying new this time around made more economical sense."

Following an initial enquiry placed with SMT GB's headquarters at Duxford and taking third-party references from existing Volvo users, an order was placed for the EC140E. "Yes, it's a bit of a leap of faith opting for a new machine, and an alternative make, but we are very confident the new Volvo will perform well," says Kenneth. "The deal was competitively priced and we are assured the residual value of the machine will remain buoyant."

The new EC140E is powered by four-cylinder Stage-IV compliant Volvo engine developing 122 nett hp and offers the latest in engine technology and operating sophistication. For example, pump flow is controlled for combined digging and swinging operations to reduce the flow loss through the overload relief valves, whilst maintaining digging power and maximum swing torque. When Eco-mode is selected, the machine provides better fuel efficiency without loss of performance in most operating conditions.

The Volvo Care Cab offers a large roomy interior with plenty of leg room and foot space. The excellent all round visibility is enhanced by pressurized and filtered cab air supplied by a 14-vent, climate controlled system. An adjustable easy-to-read LCD colour monitor provides real time information of the machine functions, important diagnostic information and a wide variety of work tool settings. The screen also doubles as a monitor for the rear and side view cameras.

The EC140E will prove to be the optimal tool for the work to be undertaken at Cairnpat Farm in terms of its size for transporting and digging geometry. For instance, the machine boasts a generous forward reach of 8.85m, a dig depth of just over 6m and a practical load over height of 6.3m equipped with the standard 3m dipper arm. The machine also demonstrates excellent stability across carriage with a lifting capacity of 1860kg at full reach and at 1.5m above ground level. The machine also features hammer / shear hydraulics and hose rupture valves fitted as standard together with optional X3 rotation circuit allowing Messrs R McNeil to accomplish a whole range of tasks around the farm including hammer work and utilizing a sorting grapple.



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- **RECYCLING** - Shredders and associated processes.
- **BULK HANDLING** - Storage & handling, level measurement & control.

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