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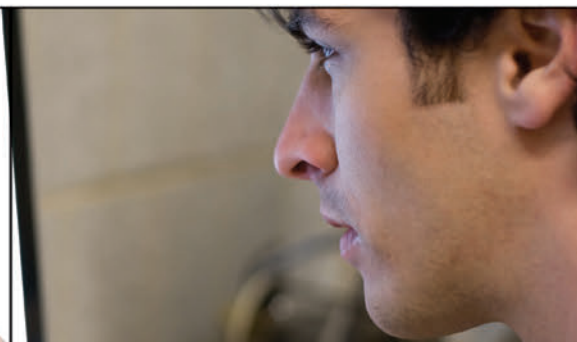
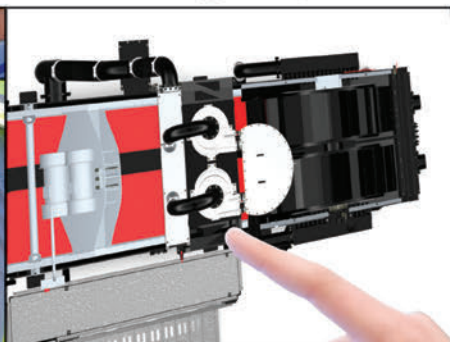
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 **HYUNDAI | CONSTRUCTION EQUIPMENT**

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All eyes focused on Hillhead

Welcome to our third edition of the HUB magazine in 2016. In this issue you will find a photo review of exhibitors at the recent very successful bauma show which was held in Munich, Germany.

HILLHEAD 2016



As we approach June all eyes turn to our UK Quarry show, the bi-ennial Hillhead exhibition held at Buxton, Derbyshire from the 28th to the 30th June. This year's show promises to be one of the largest yet, with over 460 exhibitors in attendance. The showground has been extended and now includes a new outdoor area at the southern area of the site, as well as an extended registration pavilion. The four live demonstration areas will feature more demonstrations than ever before creating the 'unique' Hillhead atmosphere with a host of plant and equipment being put through its paces in a 'live quarry' environment. You can read our very extensive editorial in this edition on some of the big companies exhibiting at the show, it looks very exciting indeed!

WASTE '16



Now in its third year, WASTE '16, the Waste and Skip Trade Exhibition, is expanding and is already set to raise the bar even higher as the North's best waste management event of the year! The theme of this year's show is The Future of Waste, which will be held on Thursday 9th June 2016 and once again, the event returns to Manchester Salford's A&J Bell Stadium, just a few miles from Manchester Airport – so easily accessible for our growing numbers of UK nationwide and international visitors.

WASTE '16 represents increasing value for exhibitors as a cost effective industry showcase investment which delivers quantifiable results.

CARS



The Complete Auto Recycling and Secondary Materials (CARS) trade show is Europe's premier event for auto recyclers and material processors. It is the only event of its kind, drawing over 1,200 attendees from 25 different countries in 2014.

Held at Donnington Park Circuit, Derby on 13 - 14 July 2016 visitors get the chance to experience not only the indoor exhibitions, but to see working line demonstrations, participate in offsite tours, visit the Skills Lab and access the Conference Theatre – all included within the FREE ticket.

Held every other year, CARS helps to shape the future of the industry providing attendees with a meeting place and platform to learn, share and discuss new and innovative practices.

Three big shows to look forward to, let's hope the weather holds out.....



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Wash recycling as it should be

Construction and demolition waste management specialists R Collard Ltd have recently opened a new state of the art aggregate washing plant at its recycling facility in Eversley, Hampshire, UK.

The new washing plant, designed and supplied by Terex Washing Systems (TWS) incorporates the very latest technology to enhance the quality and efficiency of the recycling process at the facility. The installation was specified and project managed by TWS distributor in England & Wales, DUO Plc.

Capable of throughputs up to 120 TPH, with annual production capacity of around 250,000 tonnes, the system will provide a local source of high-grade recycled aggregate products 12 months of the year to enhance the efficiency and environmental performance of regional construction and civil engineering developments in the South of England.

Collard's founder and managing director, Robert Collard commented: "Transport is a major factor in the cost of aggregate so our investment in this plant is a direct response to increasing demand for high quality, affordable recycled product in our catchment area throughout the South East England. The refinements to the technology involved will enable us to process more wastes than we collect from local sites and create a truly closed-loop recycling system for construction waste in the South of England."

Terex Washing Systems recycling processes transform construction and civil engineering wastes into clean, homogenous recycled products by removing lightweight and deleterious contaminants and extracting silt and clay which can bind otherwise commercially viable aggregates together. Material processed at the site will be used in a broad range of construction projects.

The wash plant set up at R. Collard's is an innovative, effective and coherent approach for the Recycled Aggregates Industry. It constitutes Scalping (Warrior 1400), Aggregate Rinsing & Sand Washing (AggreSand™ 165 3D2S), Aggregate Scrubbing & Sizing (AggreeScrub™ 150) and water treatment and recycling (Thickener and Filterpress).

The process starts with a Warrior™ 1400 heavy duty scalping unit, particularly suited to claggy and clay contaminated / high soil content feeds. This unit removes excess oversize before passing the bulk of material to the subsequent washing equipment. The Warrior™ includes a magnet to capture ferrous metals, specifically located to allow ferrous metals to be extracted in free fall before transfer to the AggreSand™.



The plant boasts a number of innovative new features including:

- Hydrocyclone technology producing high-grade coarse sand product with <2% silt content
- Integrated sorting systems removing non-mineral contaminants, to a much greater extent than conventional dry systems, enabling more wastes to be used as feedstock
- The plant can operate all year round due to a new feeder system which processes cohesive material even when its moisture content changes
- Fully adjustable and modular components enable bespoke products to be generated





The AggreSand™ incorporates a 16x5 3 deck screen producing clean 50mm + oversize for subsequent crushing and delivering the mid and bottom deck outputs to its partnering AggreScrub™ 150 for subsequent attrition and sizing. The feed material contains high root content which is effectively removed by the AggreScrub™. The flotation capabilities of the AggreScrub™ are ideal for addressing the variable contaminants found in recycled aggregate sources such as paper, wood and light plastics. These contaminants together with most of the

water and liberated sand particles are passed from the rear of the AggreScrub™ to the integrated trash screen. This step recovers the lightweight contaminants as a waste and allows the water and sand to be collected.

In addition to flotation the AggreScrub's other key purpose is heavy attrition to liberate adherent clays, producing clean organic-free aggregates for a wide range of construction requirements. A 12x5 part rinser integrated within the AggreScrub™ modular chassis provides the final product splits requested by Collards.

Underflows from the trash screen & the aggregate sizing screen are collected and pumped back to the AggreSand™ to recover any saleable fine material and ensure maximum efficiency of water management.

The 120tph sand plant integrated within the AggreSand™ produces two high quality sands from the recycled feed material, suitable for concrete, pipe bedding and general construction requirements. Sand and water from the AggreSand™ screen together with return water and fines from the AggreScrub™ is recovered via the integrated hydrocyclones, producing coarse and fine sand fractions. These are dewatered by the system to ~12% m.c. providing clean and ready to handle material stockpiles.

All dirty water gravity flows from the AggreSand's™ cyclones to the congruent water management system. This phase includes an 8m rake thickener with polyelectrolyte (flocculant) dosing controlled on a batch basis with automated monitoring. Suspended solids coagulate and sink to the bottom of the thickener and are drawn to the central outlet by the constantly rotating rakes. This thickened mud is pumped to a large homogenizing sludge buffer tank while clean recycled water overflows from the thickener to a storage tank. A high frequency screen featuring a fine steel mesh is installed between the thickener and the water tank, removing any residual organics and flutable contaminants such as polystyrene balls.

Sludge from the homogenizing buffer tank is delivered to the 150 plate (2mx1.5m) filter press via powerful double centrifugal pump, delivering sludge to the press at up to 16 Bar pressure. This effectively reduces waste output to a highly compressed, low moisture content by product which can be easily handled / removed from site.

This thickener and filter press combination recycles 90% of the water used in the plant which in turn allows the complete system to operate with only 30m³/hr water, provided by the 2.5" mains supply.

Terex Washing Systems washing plant brings an advanced, effective and efficient approach to the Recycled Aggregates Industry, incorporating the very latest technology to enhance the quality and efficiency of the recycling process whilst significantly reducing the cost, fuel consumption and carbon footprint of supplying recycled aggregate to a number of key developments in the UK.

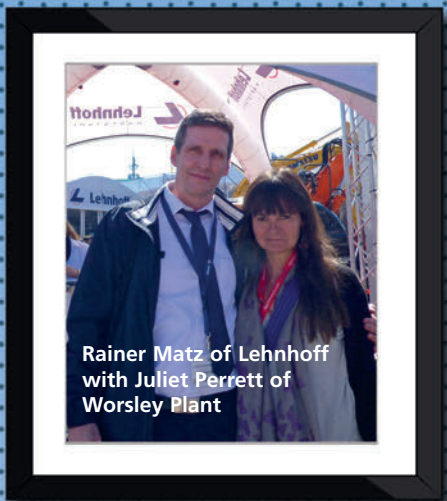
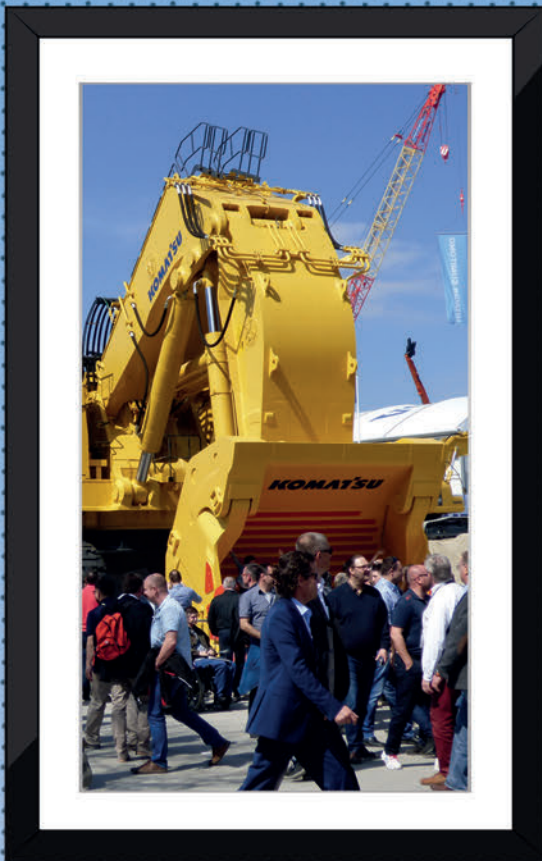
To find out more on the this particular washing systems or to discuss your specific washing requirements, contact us at TWS.Sales@terex.com or visit our dedicated website which provides an overview of the full product offering at www.terex.com/washing



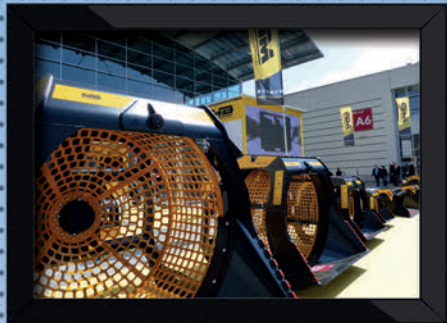
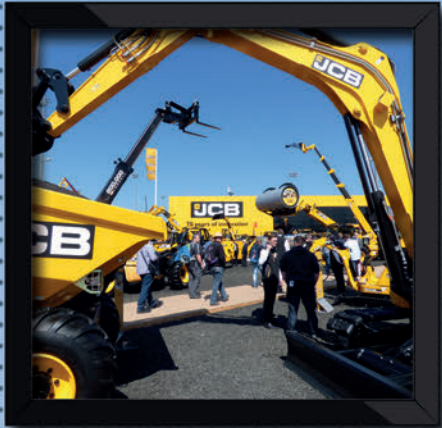
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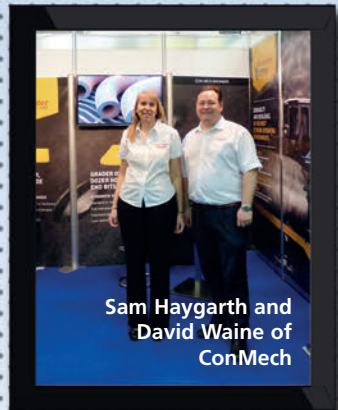
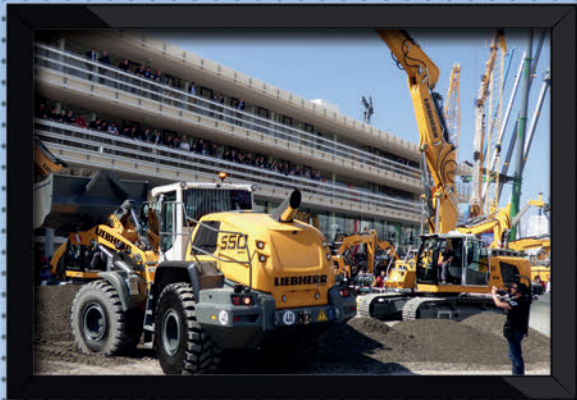
LAP Electrical at bauma



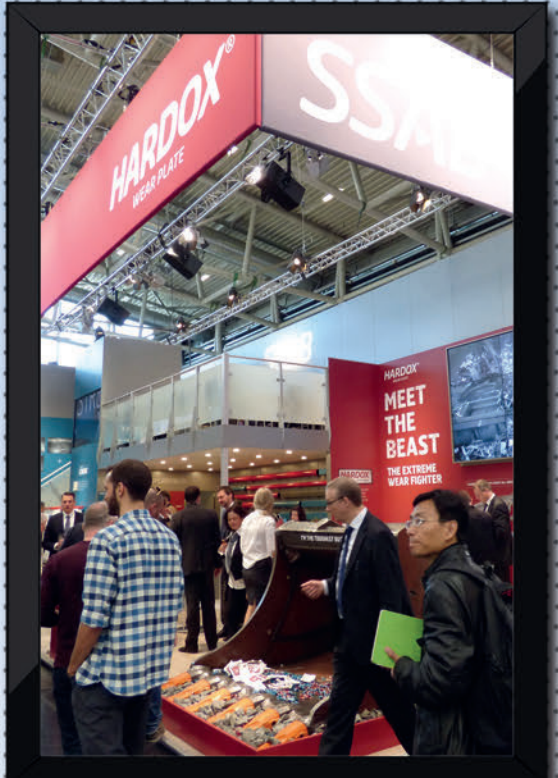
Rainer Matz of Lehnhoff with Juliet Perrett of Worsley Plant



Saskia Koenemann, Corporate Communications with Gwyn Stephenson, UK Marketing Manager for Liebherr



Sam Haygarth and David Waine of ConMech





Bruce Engineering
at bauma



Louise Murphy of Hyundai with
Justin Carrigan of Plant & Civil Engineer



Scott Freeman, Business Director and Andy
Blandford, Vice President, CASE
Construction Equipment EMEA



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Global market leader RUBBLE MASTER draws the crowds at bauma

"Entering a new era" was the RM motto at this year's bauma in Munich. RUBBLE MASTER was THE attraction at the world's leading trade fair and most important exhibition for the construction industry. The presence of the Upper Austrian company was so convincing that a number of sales (equivalent to several months' capacity) were concluded at the fair itself. The focus of attention was on the RM120GO! the latest innovation from the specialist for mobile crushers.

The current flagship with a capacity of up to 350 t/h sets new standards in terms of performance, maintenance, efficiency and design. It is, however, compact, and suitable for the crushing of an extremely wide variety of materials such as C&D waste, asphalt, concrete and natural stone. Moving and

crushing in a single pass, high-quality end products, environmentally-friendly drive system and optimised user-friendliness are just some of the merits which make the machine stand out.

RM's products aroused keen interest not only among customers from Germany and Austria but also beyond the borders of Europe, from China to Latin America and Africa.

Feedback from the people visiting the trade fair was thoroughly positive: "The service is amazing. There are really satisfied customers who are prepared to buy new products such as the RM120GO! immediately although it has only just been presented for the first time –this is the extent of the trust in RUBBLE MASTER," says Sean McCusker of Kölsch, sales partner for southern Germany.



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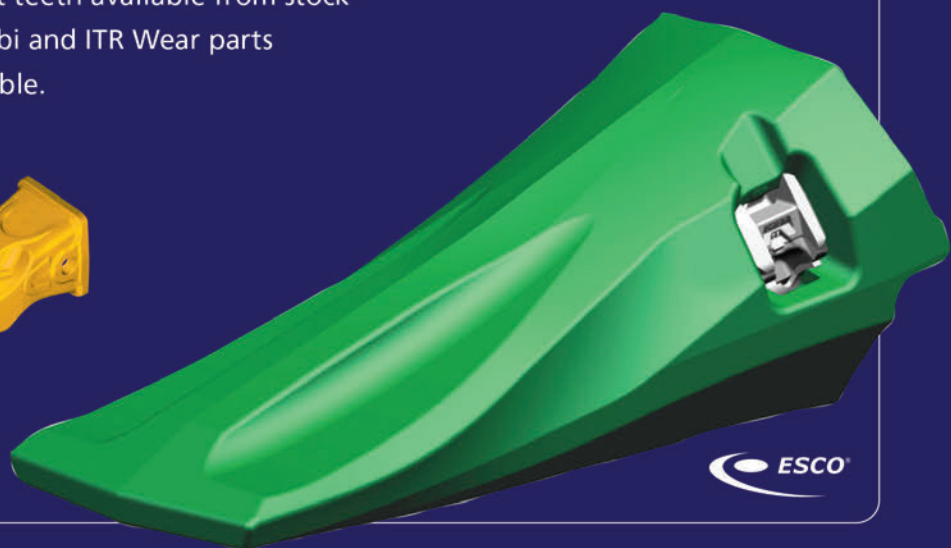
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Two Poles or One Pole, that is the Overband Magnet Question

The Overband Magnet is one of the most commonly used Magnetic Separators in the world. Suspended over conveyor belts, the Overband Magnet magnetically attracts, and then lifts separates ferrous metal from non-metallic material. It is that simple. Or is it?

The vast majority of Overband Magnets in use today are designed with a single magnetic pole.

However, an Overband Magnet with a twin or double magnetic pole enables enhanced separation across the whole width of a conveyor and is better for separating long sharp ferrous metals like nails.

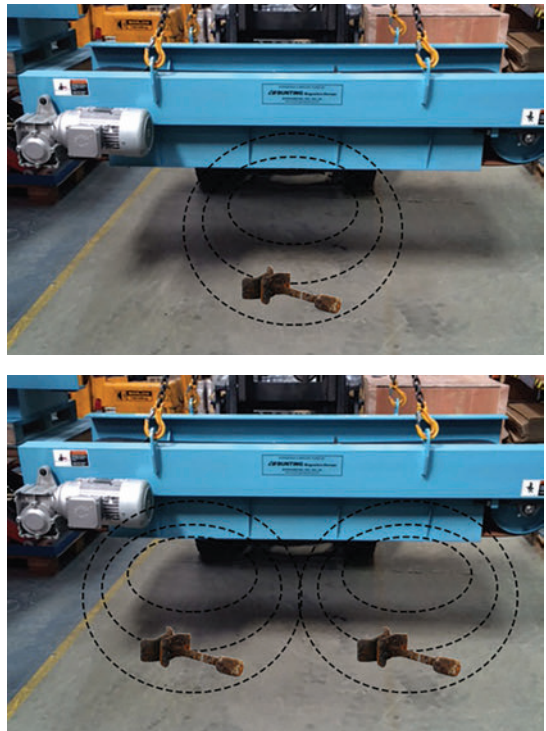
Bunting has installed Twin Pole Overband Magnets in a wide variety of quarrying, aggregate and recycling plants. The enhanced separation improves the protection of processing equipment such as Cone Crushers whilst also enabling enhanced separation and recovery of steel such as UBCs.

And, to answer the Shakespeare inspired question, yes two poles are better than one.

For further information on removing metal contamination, please contact the Bunting technical sales team on sales@buntingeurope.com.



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Kiowa's long-term partnership as a UK distributor of Trelleborg rubber hoses ensures we have built up an established understanding of markets over the last 25 years and specialize in hose and hose assembly solutions to the aggregates market.

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Its construction is at the heart of its success and performance; from its wear resistant natural rubber inner tube to a weather resistant EPDM outer cover all ensuring that it has major advantages over other products in the marketplace. All Performer hoses should be fitted with BLOC-END couplings, which allow a lightweight and easy to fit system allowing hoses to be cut to any length on site to suit specific installation requirements.

Contact us on T: 01529 416200

E: sales@kiowa.co.uk

www.kiowa.co.uk



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A close-up, back view of a man's head. His hair has been shaved except for a smiley face ":-)" which is formed by his remaining hair on the back of his head.

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Terex Washing Systems highlights new '4 site' comprehensive management service and upcoming Aggresand 206 customer day



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Terex Washing Systems are working with a number of their global dealers to deliver the '4 Site' project management service that assists customers and distributors with the commissioning of all TWS equipment. Ensuring the equipment is installed in the most professional, efficient and cost-effective method, '4 Site' offers three tailored packages from which to choose - Silver, Gold or Platinum - so every customer's need is met.

"January's introduction of '4Site' to our global dealers and customers serving the aggregate and mining industries is just another example of TWS leading the industry in not only advanced equipment design but also customer support," says Iain Walker, Business Line Director for TWS. "Regardless of whether the customer simply requests technical assistance or desires complete turnkey installation, the '4Site' system ensures that Terex technicians, internal support team members and the distributor work closely with the customer to simplify equipment installation and commissioning."

TWS are also excited to announce details about June's highly anticipated TWS customer day event in Germany, which is being hosted in association with TWS's distributor, Christophel. The program will give customers the valuable opportunity to meet with TWS sales and technical personnel and see up close the Terex® AggreSand 165 plant in operation.

Capable of separating up to 3 aggregate and 2 sand products with a 1 machine, AggreSand combines aggregate washing and screening with sand processing on an innovative, portable chassis. Its modular, fully automated design allows customers to equip the plant to site-specific needs using field-proven Terex

Washing System components like aggregate and dewatering screens, feeding hoppers and conveyors, and vibrating grids.

To find out more about '4Site' project management service or to discuss specific washing equipment requirements, contact us at TWS.Sales@terex.com or visit our dedicated website which provides an overview of the full product offering at www.terex.com/washing

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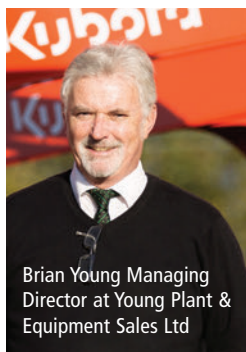


The Power Behind The Brands



Stand G15

Kubota UK reaches 50,000 excavator milestone



Brian Young Managing Director at Young Plant & Equipment Sales Ltd

Kubota UK, the market-leading supplier of high quality & performance compact construction machinery, has achieved the landmark sale of its 50,000th excavator in the British and Irish market.

This is a major milestone for the company that was the first to introduce and pioneer the concept of mini-excavators into the UK in

1979. Back then; with no products of this kind on the market, there was some serious skepticism about the introduction of mini-excavators and the value they could provide to building projects. In fact, just 41 Kubota machines were sold in 1979, with one of the first being the classic KH10 mini-excavator model, a machine that can still be found working 37 years later.

Since being introduced, the popularity of mini-excavators has gone from strength-to-strength. Competing brands have entered the sector, but none have managed to take Kubota's

number one position as market leader, a reputation that has been built by providing robust, high performing and reliable machines, with excellent comfort and efficiency, and backed up by a first class after sales support.

For Kubota, its history in this sector is a real success story with momentum continuing to grow year-on-year. After the 41 Kubota machines were sold in year one (1979), it took five years for Kubota to reach 1,000 machines in 1984. By 1988, yearly sales had increased to 1,000 per annum and by 1998, approximately 20 years since the concept was first introduced, Kubota had sold its 10,000th machine within the British and Irish market. This exponential trend continued into the new millennium, with 25,000 Kubota mini-excavators sold by 2006.

In the last 10 years, growth has been phenomenal, with Kubota reaching the 50,000 landmark following a stellar 2015 for the firm, setting new records in terms of volumes and market share for the 3rd consecutive year. Whilst the brand is widely known for its mini-excavators within the UK and Irish construction market, Kubota has also expanded its product offering in 2015, with the launch of new ranges of wheeled loaders and tracked carriers.





Kubota's 50000th excavator K008 3 in reception with Richard Sayers and Leana Horton

To commemorate the achievement internally, the business will be showcasing the 50,000th machine, identified as a Kubota's K008-3 micro excavator, within the reception of its UK's headquarters in Thame Oxfordshire, alongside a plaque honoring the feat. The sold model of the K008-3 has been delivered to Hawes Plant & Tool Hire Ltd via Kubota dealer Boss Plant, which is fitting as the plant hire firm has been one of Kubota's longest standing construction customers.

Externally, a whole host of activity is planned throughout 2016 to celebrate the 50,000th sale. Firstly the business will be exhibiting its original Kubota KH10 model at the Hillhead show in June, where it will be positioned next to a 'special edition' gold painted KX-71 machine, considered to be a modern day equivalent in terms of size and power to the KH10. Kubota will then donate the 'gold-digger' to the Lighthouse Club, who will be auctioning it off at its prestigious summer ball, with all money donated going to the construction industry charity.

Dave Roberts, Managing Director of Kubota UK, commented: "It is quite remarkable to consider the journey Kubota has been on to reach this 50,000 excavator sales milestone. It was not plain sailing in the early years, quite the contrary, but now the results are there for all to see.

"This significant achievement is testament to the market leading build, performance and reliability of the Kubota machines. Another major part of our success is thanks to our extensive network of independent dealers, who ensure Kubota has strong local presence in each specific territory within the UK and Ireland, which is essential to our sales strategy.

"I'd also like to thank the great team we have here at Kubota UK. Everyone works really hard to keep Kubota number 1 in terms service, product and after sales support. We have earned a fantastic reputation over the years for our machinery solutions; along with the significant value we offer the construction sector in terms of our finance packages, service capabilities and parts distribution.

"It fills me with great pride that we continue to maintain and build on our market leading position thanks to our loyal customers, some of whom have been with us since the start in

1979, as well as the ever increasing number of customers who are new to Kubota. I welcome you all to join me on Stand W3 at Hillhead, where we will be celebrating this achievement."

For more information on Kubota and its service solutions for the construction groundcare and agriculture sectors visit www.kubota.co.uk or call 01844 268000.

Alternatively, follow Kubota on Twitter (@KubotaUK) and Facebook (www.facebook.com/KubotaUK).

Customer testimonial, Hawes Plant Tool Hire Ltd:

Back in the late '70s, Kubota was little known in the UK construction market, yet Roy Hawes, Managing Director of Hawes Plant & Tool Hire Ltd, was one of the early adopters of the Kubota mini-excavator in the UK; the first in the South-East to own a Kubota KH10.

Now in his 70s and still with a hunger for the industry, Roy recalls vividly his

early memories of Kubota: "I remember receiving a small bright orange leaflet in the post with 'Kubota' emblazoned on it. It was my wife (who established the company with Roy in the mid '70s) who suggested we enquire about the machine as I had a few hand digging jobs on the go and needed a machine that would speed up operations."

Roy took the plunge and purchased the new mini-excavator, through F Clarke & Sons, which was the only UK dealer at the time. Roy acquired a new KH10, together with three buckets, which marked the beginning of what would go on to be a long and enjoyable working relationship with the company.

"I completed the factory job in record time and was amazed with how well the Kubota performed. I knew straight away that there would be a market for these mini-excavators, despite what others were telling me that the compact machines were not able to operate in the toughest of conditions or be effective within larger projects."

The orders started rolling in for Roy and his fledging team thereafter, but it was following a visit to a recently bankrupt demolition company in Swansea where the success of the mini-excavator really kicked into gear. "I'd heard that a hydraulic breaker was up for grabs. When we tested it with the KH10 we were blown away. Small, compact jobs, which would usually have taken weeks by hand, were now being finished in record time. Since then, I've not looked back, buying only Kubota mini-excavators for over three decades."

Thirty-seven years after his first experience, Roy is still impressed with the rugged and durable qualities of Kubota, with the superb residual value and unrivaled reliability just two of the stand out qualities of the brand.

Hawes Plant currently operates a fleet of over 190 machines across various tonne categories. There's no doubt that Kubota is a firm favourite with Hawes, having tried others brands over the years, they continue to come back to Kubota as the only consistent, well supported and extremely reliable mini-excavator manufacturer over the 37year period.

With such an appetite for Kubota machines today, it's hard to believe the sentiment felt in the late '70s towards a company that was just making its way in the UK market.



Kubota's special edition gold painted KX-71 machine

"I couldn't predict how far Kubota would come when I acquired my first machine," explains Roy. "I knew instantly that Kubota machines were high quality and for the work I was doing back then, the KH10 fitted the bill perfectly. Kubota has continued to push the limits of the mini-excavator ever since, which is why it still leads the market."

Kubota dealer testimonial, Young Plant Equipment Sales Ltd:

Long standing Scottish Kubota dealer, Young Plant & Equipment Sales Ltd, was quick to recognise the business potential of the then new mini-excavators. In 1979 it was the second dealer in the UK to stock Kubota's first model, the KH10D.

Business founder, the late Tom Young, was one of just a handful in the industry professionals who identified the potential of the mini-excavator. However, it wasn't easy at first, in fact the construction sector at large needed convincing, meaning it was an uphill struggle for Young Plant to get the message across.

At the beginning, the only way to convince users was to offer free demonstrations and trials. Young Plant also acted as a plant hire company for the Japanese manufacturer in the time before bespoke hire specialists became aware of the high productivity levels mini-excavators can achieve.

"Back in the early days there was no bulk buying, we were selling Kubotas one-by-one – we had a demonstration model and one to sell," explains Brian Young, Managing Director of Young Plant.

In the 37 years selling Kubotas, Young Plant has seen over 6,000 machines leave its forecourt and has continued to enjoy sustained growth, regularly seeing a 10-15% increase in sales year-on-year. Whilst good planning and a long history has been central to that success, the strength and growth of the Kubota brand in the UK, and the enduring appeal among Young Plant's customer base, has contributed significantly to the company's prosperity over the past three decades, as Brian explains:

"The Kubota product is remarkably reliable. When machines leave the forecourt we never see them again; there's very rarely issues with servicing or maintenance and the introduction of its new larger range, the eight tonne KX080-4, for example, continues to be popular across the hire sector, alongside all other weight categories."



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Kubota KX71 3 mini excavator



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Terex® Minerals Processing Systems launches CRH1313R Portable Impactor and Screen Plant



Terex® Minerals Processing Systems is pleased to announce the launch of the NEW CRH1313R portable impactor and screen plant.

The new Terex® Cedarapids CRH1313R delivers big production and has the versatility to handle rock crushing, concrete recycling, and asphalt recycling. The highly mobile plant is a complete stand-alone closed-circuit unit with three product capability.

The plant features a high production Cedarapids IP1313 impactor with a 3 or 4 bar 50" (1270 mm) rotor powered by a Tier 4, 450 hp (335 kW) diesel engine, direct drive to crusher, and 200 hp (150 kW) generator. Uptime is maximized with a heavy-duty undercrusher pan feeder that protects the conveyor belt from damage by absorbing the high velocity discharge from the crusher.

More capacity is possible because of the 5'x16' (1515 x 4875mm) patent-pending dual-slope 2-deck screen which handles heavier loads. In addition, the capability to return both screen deck products to the crusher maximizes production. A rugged 48" x 16' (1220 x 4875 mm) high-stroke Cedarapids "Advantage" feeder with 60" (1525 mm) grizzly bar or optional stepped tine style grizzly section feeds the impactor. The new CRH1313R portable impactor/screen plant is simple to operate, quick to set up, and easy to transport.

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Terex® Minerals Processing Systems is pleased to announce the launch of the NEW CRC1150 portable cone plant



The new Terex® Cedarapids CRC1150 portable cone plant delivers big production at a practical price. The highly mobile plant features the new TC1150 cone crusher that utilizes high efficiency roller bearings and boasts several notable advancements that enhance performance and functionality. New key features include automated cone controls and larger closed side settings. The crusher is powered by a 300 hp motor and drive, all mounted on a rubber isolated frame. The plant includes an oversize cone feed hopper extension with overflow chute, "straight-line" undercrusher conveyor, metal detector, and service platforms. Easy maintenance features include conveniently located grease banks and a ground access cone lubrication module.

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New ROI Dealer Appointment Strengthens Rapid's Sales and Service Position

Rapid International Ltd's continuing aim to grow market share within the UK and Ireland has been bolstered by the recent addition of Ormonde Machinery Ltd to its dealer network. Headquartered in Kilkenny, Ormonde Machinery strive to offer quality customer service and a truly personalised approach to machinery solutions. Ormonde has assumed the role of officially appointed dealer representative for Rapid machinery in the Republic of Ireland with immediate effect.



Jarlath Gilmore, Sales and Marketing Director at Rapid commented on the recent Ormonde Machinery dealer appointment, "We are delighted to welcome Conal and the Ormonde Machinery team to the Rapid dealer network. We feel Ormonde have the right experience in key areas to help us develop sales in Southern Ireland."

Established in 1969, Rapid is recognised as one of the world's leading manufacturers of equipment for the concrete, construction and environmental industries. Rapid's pioneering mixing technology is present in upwards of 1000 installations in over 30 countries worldwide.

Rapid is the manufacturer of choice for many of the major global concrete and construction groups and is proud to have supplied equipment to Hanson Heidelberg, Holcim, Lafarge, Cemex, Ferroval, Bam Nuttall, Arcelor Mittal, Aggregate Industries and many more.

Rapid's products range is manufactured at a state of the art 50,000 square foot manufacturing facility in County Armagh, Northern Ireland. The company is proud to power its facilities with 100% green energy via an onsite wind turbine. Rapid's product offering includes pan, planetary and twin shaft concrete mixers, static and mobile batching plant, wheel/track mounted continuous mixing plant and

spare parts. All machinery is designed in house by a talented team of design engineers and manufactured using the latest equipment from internationally renowned brands.

Commenting on their recent appointment, Conal Mullan, General Manager at Ormonde Machinery said "This is a welcome addition to our product offering and are delighted to be representing Rapid International in Ireland. Given the continued recovery in the construction sector, we expect to see strong demand for this type of equipment in the coming years."

Ormonde Machinery is a leading supplier of construction, mining, quarrying and recycling equipment. Ormonde's SME status provides the opportunity for an agile and fast paced approach to meeting customer requirements. The company is specialised in the field of materials processing equipment and have been an officially appointed dealer for leading manufacturer Terex Finlay since 2000.

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With this year's recent BAUMA show in Munich behind us, and IFAT (Munich) and Hillhead (Buxton) 2016 just around the corner, Chris Cox, JCB's General Manager for the waste and recycling sector talks trade shows and their importance to manufacturers and industry as a whole.

'Trade show season' is definitely underway. People and machines are criss-crossing Europe to be at the must attend events. Over 700,000 people visit the Munich shows alone and there are over 6,000 exhibitors across the two events. JCB has always found that trade shows are a great way to maintain visibility in a crowded and competitive marketplace, engage with new audiences, and showcase new product and innovations; this year is no different.

Innovation in action

At the recent Bauma show in Munich we exhibited 40 machines from across JCB's complete range and launched 12 new models. These included the revolutionary new Hydradig; a new compact wheeled excavator designed for urban construction, highway maintenance and municipal operations, along with the 3CX compact backhoe loader, 4 - 6 tonne compact excavators and new mid-range loading shovels.

At this year's IFAT – the world's leading trade fair for water, sewage, waste and raw materials management – we'll be showcasing (stand 215/314) machines from our specialist waste and recycling, re-handling and Fastrac 'Kommunal' utility ranges, including our range-leading 457 Wastemaster Wheeled Loading Shovel and – Forklift Truck Association safety award winning – 35D Wastemaster Teletruk.

As Germany has the largest waste and recycling market in Europe, and is home to the most advanced and organised utility applications sector in the world, it's important to JCB and a great place to display our innovation in action.

We won't be forgetting the UK market though and will also be exhibiting at Hillhead 2016 in June (Stand: D4 Z4) and expect to be back at RWM once again in September.

Trade shows offer a great opportunity to meet customers face-to-face, to introduce new technology and to reach people who may otherwise be unaware of our extensive product range. At last year's RWM for example we made a number of direct sales and generated significant leads as people were



able to 'get up close and personal' with a number of our machines and experts were on hand to take them through the machines' many attributes.

Many of these industry shows also allow manufacturers to demonstrate machines in action offering a unique opportunity to impress potential customers. This is an important consideration as many attendees at the trade shows have responsibility for the purchasing decisions.

Driving new developments

Of course, JCB is not alone in appreciating the benefits of trade shows and many of our competitors also bring new products to market at these events. In reality, I think the fact that potential customers are able to compare the machines on offer from a variety of manufacturers in a single location is an integral part of driving competition and innovation in industry. You want people to walk away from your stand with a wow factor so that your machines are remembered (and subsequently purchased) above all others, so you need to ensure they're the best they can be.

The interaction with customers, and potential customers, also gives manufacturers the opportunity to receive feedback that may otherwise escape them – another route to improvement and innovation. We're always delighted to hear what you have to say about our machines so if you're attending any of the exhibitions please do come and talk to us.



CASE shows it's range at Hillhead

UK customers will get their first chance to see many of CASE Construction Equipment's latest models in action at this year's Hillhead quarrying, construction and recycling exhibition in June. The company will be showcasing 19 different models, including four machines from its new D series excavator range fresh from their launch at Bauma in April.

The heavy range line-up includes the new D Series crawler excavators, wheel loaders, and the largest CASE dozer; and some of the machines will also be in action in the demonstration area throughout the event. There will also be an extensive range of equipment from the compact line, including mini and midi excavators, backhoe loaders, and skid steer loaders.

Hillhead will also be the venue for the second qualifying round of the annual CASE Rodeo Challenge – an event designed to test the skill and speed of operators throughout Europe, with the best going forward to this year's final in Paris.

action in the demonstration area throughout the three days of the event.

Also on display will be the prototype CX290D MH, a 30t crawler excavator designed specifically for the materials handling market.

Alongside the D series crawler excavator models will be the CX145C from the existing Tier 4 Interim (Stage IIIB) C series, which offers efficiency and fuel saving benefits through the use of the CASE Intelligent Hydraulic System.

Wheel Loaders

CASE will be showing four models from its renowned F Series of wheel loaders including, 621FXT, 821F, 921F and 1121F. All models in this range over 14tonne benefit from Tier 4 Final (Stage IV) emissions requirements: engines. Visitors to Hillhead will also be able to see the heavy duty 1121F in action in the demonstration area.



Excavators

Taking pride of place on the CASE stand will be six machines from the D Series of crawler excavators, including four new models that were unveiled for the first time at Bauma 2016. All D series excavators feature CASE's exceptionally fuel-efficient Tier 4 Final (Stage IV) with its maintenance-free SCR and DOC-only solution which achieve the highest emission standard without the need for a diesel particulate filter

The excavators on display will include the CX210D and CX370D, which were launched as part of the original D series line-up in April 2015. They will be joined by two brand new models at either end of the range: the CX130D and the CX490D. The medium range 14t CX130D has a 78.5 kW (105 hp) engine generating 356Nm of torque, and has a maximum reach of 8.3m and digging depth of 5.5m.

At the heavier end of the range, the CX 490D weighs 49.4t and features a 270kW (362hp) engine capable of generating 1,363Nm of torque, with a maximum reach of 11.97 m and digging depth of 7.72m. Larger still is the top of the range CX500D in Mass Excavation version, which delivers a massive performance with an operating weight above 50t. This machine will be on the CASE stand, and can also be seen in

Dozer

Completing CASE's heavy range line-up at Hillhead will be a 2050M crawler dozer, the largest in the CASE lineup. The 20 – 22t 2050M was designed with mass and muscle in mind, and it also makes use of SCR technology to reduce both fuel consumption and time spent on maintenance.

Compact equipment

In addition to the heavy equipment, CASE will be showing an extensive and versatile range of compact equipment ideally suited to urban construction and road building. Among the machines on display will be four compact and mid sized crawler excavators ranging from 2.7t to 8.7t in weight: the CX26B, CX50B, CX75C and CX80C. These machines also offer outstanding comfort and best-in-class lifting capacity.

Also on show will be the TR310 compact tracked loader – the most powerful and efficient medium-frame compact track loader in CASE's lineup. The TR310 offers best-in-class power thanks to larger lift cylinders and a maintenance-free Tier 4 Final engine, and has wider tracks to improve stability and lower ground pressure.



Backhoes

The final section of CASE's Hillhead display will feature the latest developments in technology for its Construction King backhoe range, including a new backhoe boom and loader arm for the 580ST model. The new backhoe design with in-line cylinder geometry and inner Extendahoe will be available as an alternative to the existing boom with overlapping cylinders and outer Extendahoe, giving customers a choice of design.

The CASE stand at Hillhead will also include the largest model in the company's backhoe loader range, the 695ST. This four equal-sized wheel machine is powered by a 110hp engine driving through a standard Powershift transmission, and customers can choose between pilot or mechanical control systems. Visitors to Hillhead will be able to see the machine fitted with pilot controls.

All of the models that CASE is exhibiting can be seen at Stand X5 at Hillhead, which runs from 28th to 30th June 2016 at Hillhead Quarry, Buxton, Derbyshire.



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Come along and see us at Hillhead June 28 -30 (Stand D4 & Z4).

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Blademaster Xtreme – Put it to the Test

Participate in free trials of the groundbreaking new range of Ground Engaging Tools for extreme operating environments

The UK launch of Con Mech Engineers Blademaster Xtreme range of GET will take place at Hillhead 2016. To mark the occasion Con Mech Engineers are offering quarry operators the opportunity to participate in a selected number of trials to assess the improved wear life and productivity for their dozers, excavators and loaders. This follows on from successful trials that have taken place in mines and quarries in Russia, Peru and the USA.

The Blademaster Xtreme range includes replacement edges, end bits, and wear parts that are specially engineered to provide maximum durability and resilience for high abrasion and/or impact applications.

David Waine Global Business Development Manager explained the development process "Our in house heat treatment facilities and metallurgy expertise has enabled us to develop a new steel chemistry with a specially developed heat treatment process. We can precisely refine and control all the variables in the heating, quenching and tempering processes and the resulting steel micro-structure. This means we can reliably achieve the abrasion and impact resistance required for optimum performance in different site conditions. We can also tailor tool thicknesses to provide the wear material required and enable component life to coincide with maintenance schedules, with big potential savings"

The range includes the Extreme Heavy-Duty and Very Heavy-Duty product lines for high abrasion applications and the Extreme-Tough product line which provides higher strength and crack resistance in high impact situations. Also the Extreme Sub-Zero range is designed to operate in temperatures down to -50 degrees C.

The Blademaster Xtreme range also includes hot cupped (forged) end bits designed specifically for Dozers working in harsh environments. These provide superior wear resistance and strength than end bits produced through the traditional casting process. Also the Blademaster end bit is designed to be self-sharpening for maximum penetration. It digs deep into the surface material and helps move it to the centre of the blade to ensure even material flow and improve productivity as well as extending wear life.

Feedback from the trials to date has been very encouraging explained David. "We trialled our Extreme Sub Zero edges and end bits on a dozer operating in very harsh conditions in a



Russian gold mine. Our tools have outlasted the OEM products by 50% and they are still going strong!"

"We would also like to work with some UK based quarries to demonstrate the Blademaster Xtreme system. We will work closely with fleet managers to assess their application, site conditions and materials, GET wear patterns and maintenance schedules to understand the specific operational needs and challenges. A customised wear management solution will then be developed incorporating appropriately specified Blademaster products. We will provide ongoing monitoring of wear patterns and keep products available in stock for replacement if needed. It all forms part of our Wear Management Service which is designed to maximise up time, reduce the cost of GET ownership and improve productivity".

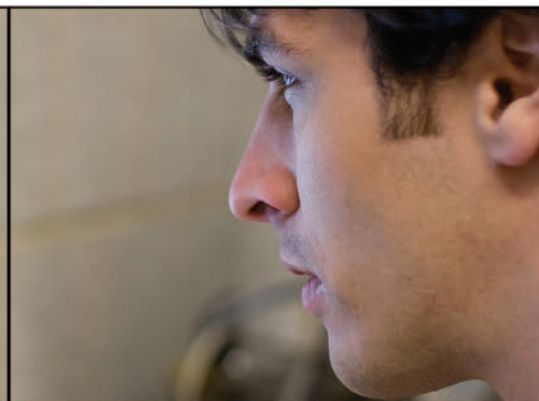
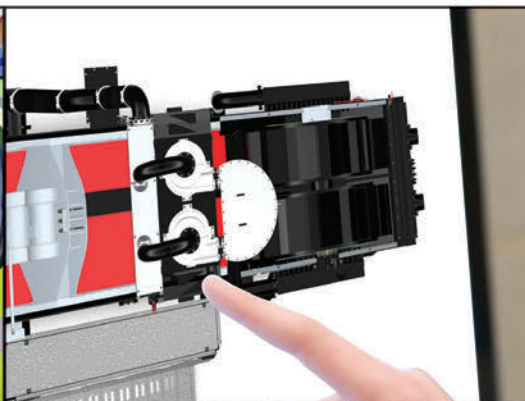
To find out more about Blademaster range visit www.conmecheng.com or come and visit us at Hillhead, stand X16 to discuss your requirements.



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Smiley Monroe showing why they're ahead in belting at Hillhead

Smiley Monroe will be showcasing their new line of Special Conveyor Belts to the UK and Ireland markets at this year's Hillhead, following a successful global launch at bauma 2016 in Munich, as well as launching their new MegaFlex™ screen media and a new environmentally friendly Cold Bond™ vulcanising adhesive.

Bill Martin, Smiley Monroe's Technical Manager said: "Our Special Conveyor Belts are highly customised with hot moulded cleats and siderails; our new MegaFlex™ screen media, which incorporates hot vulcanised rubber tension bands, are produced from a highly flexible and resilient rubber membrane for removing dust and fines with minimal pegging and blinding; and Cold Bond™ is a vulcanising adhesive with a safer organic compound, compliant with new EU regulations and suitable for use in mining and underground applications."

Smiley Monroe's applications experts and experienced problem-solving engineers will be on hand to demonstrate the benefits of the company's latest offerings, using product displays and 3D demonstration videos and interactive product animations.

Tim Monroe, Smiley Monroe's Marketing Director enthused: "Come rain or shine, downturns or upturns, marquees or



shipping containers, Smiley Monroe has been a part of the Hillhead tradition for decades. So many shows leave so much to the imagination, but since Hillhead is a live quarry environment, we're surrounded by our world class customers, whose crushing, screening and recycling machines rely on our quality conveyor belts and rubber parts to do a real 'job of work' and keep the show on the road every day.

Get ahead at Hillhead and say hello to the Smiley Monroe team on Stand C27.



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Future proof power solutions from Barrus

Barrus will be showcasing the latest portfolio of power solutions from the world's leading emission compliant diesel and petrol engine manufacturers including Yanmar, John Deere Power Systems and Kawasaki.

The focus will be on emission compliant engines that have been designed with future legislation in mind. Yanmar's L100 and L70 engines from the popular L-Series air-cooled range meet the Final Tier 4 emission regulations. They are ideal for powering construction equipment, power generating sets, pumps and hydraulic power packs.

Yanmar customers with TNV-CR water-cooled series industrial diesel engines are already prepared for the introduction of EU Stage V regulations in 2019. These engines, in addition to meeting the US EPA Tier 4 and EU Stage IV regulation, are already compliant with the proposed 2019 EU Stage V requirements which will limit the Particle Number (PN), thus reducing the emission of ultrafine particulate matter. This means that any industrial equipment with a Yanmar EPA Tier 4/EU Stage IV engine already in use will need no further modification whatsoever to comply with EU Stage V regulation.

"Yanmar put a lot of effort to ensure that any newly introduced technical development coming to the market retains the same degree of reliability which made the company so renowned worldwide," comments John Day, General Manager, Industrial Division, E. P. Barrus Ltd. "As emission legislation tightens, Yanmar has responded once again and we are ready for the future now."

John Deere's approach to emission control is proven and has led to a DPF (diesel particulate filter) solution that is capable of complying with the requirements concerning Stage V emissions. One of the significant impacts expected of Stage V will be the introduction of a particle number (PN) limit for engines in the 19kW to 560kW power band, which will necessitate the use of DPF technology by OEMs.

"John Deere has been employing DPF technology since Interim Tier 4/Stage IIIB so Final Tier 4 engines that are already in use and equipped with DPF will need no further modifications whatsoever to comply with the proposed 2019 EU Stage V regulation, which provides original equipment manufacturers with the benefit of a one installation advantage," comments John Day, General Manager for the Industrial Division, E. P. Barrus Ltd.

In surface mining and quarry operations, John Deere diesel engines offer the same advantages that have made the brand



famous in the construction sector: uninterrupted power, ultimate reliability and low cost of ownership. They are driving crushers, excavators, loaders, dumpers, gensets and air compressors worldwide.

The Industrial Division at Barrus has a flexible approach to customer requirements providing specialist applications engineering support for both one off projects and volume production.

Prall-Tec GmbH recently approached Barrus to work with them on a project to supply John Deere engines for their first tracked mobile impact crusher, the Prall-Tec PT1.1 Pro.

"Our goal was to build a high quality crusher with the same performance characteristics

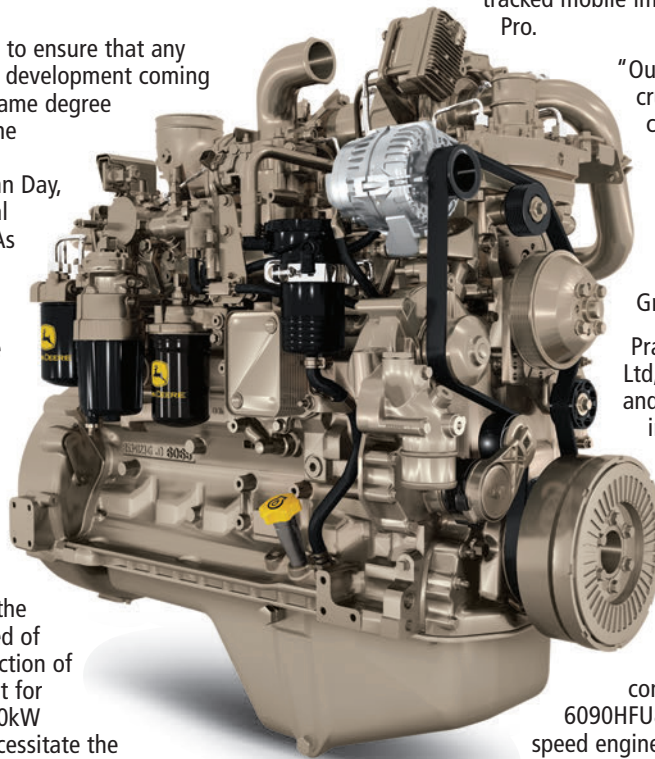
as our existing stationary impact crushers that we have been building for more than 20 years," commented Frederik Teepe, Managing Director of Prall-Tec GmbH.

Prall-Tec worked with Crushers Inc. Ltd, based in Leicestershire to design and manufacture the chassis and to install the engine. "Apart from choosing Crushers Inc., we wanted to select the right engine for the application from a supplier that could assist and support us in the installation process," Frederik explained.

Barrus reacted very quickly to Prall-Tec's initial enquiry and converted an existing John Deere 6090HFU84 Stage III A, 1500rpm fixed speed engine in their workshop facilities to meet the required specification and assisted with the installation.

Commenting on the engines performance Frederik said, "After completing several performance tests the 9-litre John Deere engine provided so much power that we were able to achieve an even greater output than we had first calculated."

Please visit us at Hillhead on Stand G15 to discuss your next project or application.



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The company is also the exclusive McCloskey crushing and screening plant distributor for Central and Northern England, North Wales and the Middle East.

At Hillhead, Agg-Pro will be exhibiting a range of machines representing both manufacturers; suitable for quarrying and recycling operations including a GipoREC R150FDR, and both McCloskey R155 and S190 screens.

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McCloskey International leads the screening and crushing industry with a complete line of equipment including: cone, jaw and impact crushers, vibrating screeners, trommels and stacking conveyors. The products are used in a wide range of industries which include aggregates, landscaping, infrastructure and road building, construction and demolition, mining, waste management and recycling.





AGG-PRO provides the ideal solution with the new GIPO Roller Screen



Aggregate, Processing and Recycling (AGG-PRO) have recently provided one of the leading contract crushing companies with the latest GIPO technology in the form of a GIPO RR 130 PB tracked mobile roller screen. This new machine has completely unlocked the value of material that was previously waste!

Founded in 1982 Paul Chapman & Sons Ltd offer a nationwide crushing and screening service to some of the biggest names in the industry. In keeping with the company ethos of continuous development by investing in the latest technology and equipment to maintain the rigorous standards as set by the company they have recently taken delivery of a GIPO RR 130 PB tracked mobile roller screen.

Supplied by Tamworth based Aggregate Processing & Recycling Ltd (AGG-PRO) this track mounted machine features a heavy steel plate feeder discharging onto a two-step roller grizzly.

The GIPO RR 130 PB is a particularly sturdy machine weighing in at 80 tonnes and is able to work in any conditions making it ideal for pre-screening large rocks or clay bound materials even with a high percentage of moisture and dirty material present. The grooved roller shafts, one in front of the other, create a virtually square opening forming a type of grizzly permitting the passage of dirty, wet and sticky material.

Capable of producing in excess of 600tph of cleaned stone, the GIPO roller screen has obvious advantages over the more traditional methods of finger scalping screens with no broken fingers due to heavy rock impact and no mesh to blind when the material is sticky. Drive is from a powerful, fully emissions compliant CAT diesel engine.

Mr Chapman, who has a long standing relationship with the AGG-PRO team, is currently using the machine to clean quarry overburden prior to crushing and is unlocking value from what was previously a waste and indeed problematic material due to its high clay and plastic content.

www.agg-pro.com



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CMB International will be exhibiting this year at Hillhead 2016, stand V17 where they will be displaying many of their own crushing and screening equipment along with selection of spare parts. The CMB technical team will also be available during the show days to discuss your requirements.

 www.hub-4.com/directory/185



Warwick Ward Continue to Expand



Established in 1970 and having exhibited at every Hillhead show since 1989, Warwick Ward continue to be recognised as Europe's largest supplier of used wheel loaders and all types of earthmoving, construction and recycling equipment; and with over 4,000 machines broken for spares they have parts for every make and model.

Since Hillhead 2014, Warwick Ward has continued to grow their business with the support of their customers by adding TEREX Environmental Equipment and ECOHOG to their portfolio of products as well as expanding their territory as CASE CE dealers into the Midlands.

With the addition of the TEREX Environmental Equipment range and the ECOHOG air and metal separation technology, Warwick Ward has now truly become a 'one stop shop' for all recycling equipment needs.

Warwick Ward are able to supply the full range of CASE CE, TANA, TEREX Ecotec and ECOHOG Machines and have a first class parts and service department offering both a professional and customer focused after sales service. Warwick Ward have also expanded the plant hire side of the business.



At Hillhead 2016 they will as usual be exhibiting examples of their used equipment stock on their own stand as well as information on the TANA, TEREX & ECOHOG range of products. In addition they will also have representatives on the main CASE Construction stand and there will be a periodic live demonstration of the TEREX TDS V20 medium speed shredder within the Hillhead demo area.

For more information go to www.warwick-ward.com and visit Warwick Ward on stand number M19 at the Hillhead show!



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A Roman invasion in the North of England ... Taylor & Braithwaite Ltd are putting Maximus on the map



Established over 40 years ago, Taylor & Braithwaite (T&B) pride themselves on supplying a complete package, from purchase right through to after-sales. Their extensive range includes Hyundai excavators and wheeled loaders, Prodem excavator attachments alongside a comprehensive series of Wacker Neuson light equipment, meaning Maximus Crushing & Screening really is in good company. Taylor & Braithwaite take great satisfaction providing customers with expert advice on equipment purchases that are of the highest quality, fit for purpose and cost effective. They have built a solid reputation - being a proactive business with the upmost attention to after-sales, which has allowed them to see rapid growth and also return business from their customers. With a strong company strapline "Committed to you. Committed to your business" the bar is set high.

The whispers have been gathering pace that T&B are ones to watch in the highly competitive market place of mobile Crushing and Screening. In 2015 they took the decision to expand and offer a more inclusive range and after researching various manufacturers they became a dealer for Maximus Crushing & Screening in the North of England. Jaime McGlinn joined T&B to take up the position of Sales Manager for the Maximus range, after previously holding the role of Sales Manager for Sandvik in the North West of England for 10 years. Jaime describes how "Maximus have a wide range of options available, that will support any business requirement both in recycling and quarrying". He also added "The first thing the customers are commenting on when they see our machines is the quality of build. Already our demo program has been very busy and has quickly proven the credentials of the brand, and as I expected, the sales have followed. I'm really excited to show customers the new models which are due in." The Maximus range of equipment has been building quite a rapport with customers old and new. It consists of a full line-up of Jaws Cones, Impactors and Screens and stacking conveyors. It's clear to see how Maximus Crushing and Screening is the fastest growing Crushing and Screening company in the world.

TB Taylor & Braithwaite

A selection of sales to-date include LW Wilson Ltd who have added a MXJ1200 Jaw to the two Maximus 516 Scalpers they already run. Park Royal Haulage Ltd who in February ordered the Maximus 522T Screener - the largest Triple Deck Screener on tracks available in the UK (22ft x 5ft), which is now working in Whinney Hill Quarry Accrington, after a very impressive demonstration. Other orders taken include Pete Marquis Ltd who have added a Maximus 409 Scalper to their fleet, to work in recycling and they are already seeing great results and clever cost savings. Offerton Sand & Gravel Ltd are another company who have seen the quality of performance of Maximus after taking into their portfolio the 516 Maximus Scalper to work on recycling soils and aggregates at their site in Stockport. With deals coming at a steady rate Thompsons Plant Hire Ltd in Maryport purchased a Maximus 522T triple deck to add to their extensive range of machines. A company already quite accustomed to the Taylor & Braithwaite approach on the Hyundai sales side of the business, they were delighted to see the Maximus equipment keep par with the standards they have grown accustomed to.

With so many satisfied customers already, Taylor & Braithwaite and Maximus are displaying their intentions, and it's clear to see that the future looks very rosy indeed. Hubert Watson, Maximus Global Sales Director commented "Taylor & Braithwaite Ltd and Maximus Crushing & Screening are going from strength to strength in the North of England and we at Maximus are thrilled and excited to see the future growth of the business"



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It's Hillhead time again!

Tema will once again be exhibiting at the UK's largest working quarry exhibition, held at the Hillhead Quarry, Buxton, Derbyshire from 28-30th June.



This year the company will be exhibiting their full range of products, including woven wire, self-cleaning harp sieves, fan sprays, rubber and polyurethane in both tensioned and modular formats.

Tema Isenmann will also be exhibiting WS85 which is the proven industry standard, the most versatile and cost effective modular system. It achieves excellent results with all separation sizes in many applications including: Sand and Gravel, Granite, Quartzite, Silica Sand, Limestone, Coal and Ironworks Materials.



Alongside this will be the innovative WS2.10 now also available in screen modules with its unique fixing system that is compatible with original WS85.

Chute Liners, the Iseflex range of polyurethane coated wire meshes, modular concept finger screens, polyurethane spray bay and cross member protection will also be featured on the stand.

Come and visit us on stand number F10 where a warm welcome awaits you...



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Top Global dealer award for Finlay Scotland

At the recent Scotplant show, Finlay Scotland, were officially recognised for their success with the Terex Finlay brand.

Not only were Finlay Scotland awarded 'Three Crown' status but they were recognised as the number one global dealer within the Terex Finlay network.

The Terex Finlay '3 Crown Awards Program' is based upon overall performance, volume of growth and brand representation. "



The overarching aim of the '3 Crown Program' is to promote enthusiasm, professionalism and passion for the Terex Finlay brand amongst our dealers and help them develop all aspects of our business relationship and ultimately the customer experience" said Cliff Worley, Terex Finlay Distribution & Business Development Manager, Sales

"We were delighted to receive the '3 Crown Dealer of the Year 2015' award from Terex Finlay. We accepted this award with great pride on behalf of our whole team. To be given this award by Terex Finlay is a great way of demonstrating that our team's individual efforts have been recognized as we strive for continued excellence and improvement in all our customer experience touch points throughout 2016 and beyond" said Tom McNeill.

"Our goal is to continue to improve even further to ensure that our customers receive the very best service we can offer and our staff get the best training and opportunities to continue to offer such high levels of service" commented Morris Wightman.

Dealer Manager for Terex Finlay, PJ O'Donnell said: Finlay Scotland offers a highly professional and friendly customer service and experience, they are a pleasure to work with and therefore, because of their hard work, dedication and enthusiasm in all aspects of customer service, they are recognised as the '3 Crown Dealer of the Year'. We are excited to see what the future holds for Finlay Scotland and look forward to continuing our close working relationship with them.'



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Liebherr at Hillhead 2016

- **Wide range of Liebherr machines on display including excavators, wheel loaders and dozers**
- **See the new generation of XPower® wheel loaders in action at the quarry face and up close on static display**
- **Other Liebherr highlights include the new PR 726 dozer**

Biggleswade (Great Britain), April 2016 – Liebherr machines will be out in force at Hillhead 2016 with tracked excavators, wheeled excavators, wheel loaders and bulldozers in a range of sizes on static display or in action. Highlights include the new generation of XPower® wheel loaders, including the first L 586 in the UK, the new PR 726 dozer and a customer's R 924 crawler excavator refurbished by Liebherr's Used Equipment Division.

Liebherr has something for everyone at Hillhead 2016. The range of machines on display includes tracked excavators, wheeled excavators, wheel loaders and bulldozers with the new generation of Liebherr's XPower® wheel loaders out in force. Robust with strong axles and component parts, these machines have strengthened Z-bar lift arms for up to 20 per cent more break-out force. No diesel particle filter is required, thanks to the Liebherr SCR technology, and fuel savings of up to 30 per cent are provided by the Liebherr Power Efficiency (LPE) system and Stage IV / Tier 4f compliant power-split driveline, which optimises performance. XPower® wheel loaders automatically adapt to the working situation with the most efficient ratio between hydrostatic drive for material uptake and short distances and mechanical drive for long distances and uphill. This enables them to achieve full power and the highest levels of fuel efficiency.



The L 566 XPower® wheel loader will be on static display to enable customers to get up close and see many of the new design features of the XPower® range. Its big brother, the L 586 XPower® wheel loader, which will be working on the quarry face, is the first in the UK. The L 586 is not only the largest machine in the XPower® range but, with more than 32 tonnes of operating weight, it is the largest Liebherr wheel loader and it has proved its capability during intensive long-

term testing. A L 586 XPower® with Z-bar linkage was the front-runner in an endurance test, reliably performing its task of transporting wood chips into a silo for 13,700 operating hours. Despite operating almost constantly under a full load, fuel consumption remained low thanks to the power-split XPower® driveline. The test wheel loader required 20 litres of diesel per operating hour, equating to a fuel saving of around 30 per cent compared with the already very economical Stage IIIA / Tier 3 L 586 wheel loader normally used to transport the wood chips.

In another test, the L 586 XPower®, this time fitted with a huge 5.5 m³ rock bucket with Liebherr tooth system, was used for extraction by an international cement manufacturer. Other standard quarrying equipment options, such as a foldable grille for the windscreen, were included on the machine to prepare it for its work at the rock face. The challenging test operation featured routes of up to 400 m and inclines of up to 30 per cent. The benefits of the power-split driveline, with the combination of the hydrostatic and mechanical drive ensuring the wheel loader works efficiently on all operations including long routes and steep gradients, really came into effect under these conditions. Despite the enormous load, the test loader only used around 22 litres of diesel per operating hour.

Following its launch at bauma 2016, a new PR 726 Litronic bulldozer with six-way blade will put in an appearance at Hillhead 2016. The dozer is powered by a 4-cylinder Liebherr diesel engine, which returns 120 kW / 163 HP and complies with Stage IV / Tier 4f emissions standards. And because this 6th generation machine benefits from Liebherr's SCR technology, no DPF is required. Featuring an electronically-controlled drive management system with integrated ECO function, it enables the operator to select between high performance and maximum economy. Proactive power control, which makes a significant contribution to reduced fuel consumption, is another 6th generation innovation. The PR 726 Litronic is designed for outstanding visibility with sloping edges on all sides, panoramic windows and exhaust stack and lifting cylinders positioned behind the A-posts giving the operator an optimum all-round view. With a comprehensive range of equipment available, the new PR 726 Litronic can also be configured for industrial applications and will be offered in a special dozer version for landfill sites.

The PR 726 Litronic's undercarriage is a completely new development and the Liebherr FTB undercarriage is also available as an option with both undercarriage versions available as retro-fits. Many cab



innovations from larger 6th generation machines are included on this model, which is also equipped with LiDAT, Liebherr's data transfer and positioning system.

The PR 736 Litronic crawler tractor, complete with a straight blade, will be on static display. This is still a popular model thanks to a number of attractive features. These include low fuel consumption even at full load thanks to the constantly high efficiency and electronic power limiting control and the hydrostatic travel drive, which gives the PR 736 enormous power at any travel speed. The PR 736 can reach top speed without changing gear and, even when cornering, both chains are driven with a positive connection, giving it maximum thrust force and allowing it to turn on the spot in confined spaces.



And, last but not least, witness the impressive results of the Liebherr used equipment refurbishment programme first hand. Moorlands Specialist Excavations Limited has kindly lent us the company's refurbished R 924 crawler excavator, which no one who has seen it so far could believe wasn't a brand new machine. That's thanks to Liebherr's state-of-the-art workshop, located at Biggleswade, which is equipped with features including a brand new paint shop, welding / fabrication shop, crane test area, brake tester and 21m inspection pits.



The XPower L586 in action!

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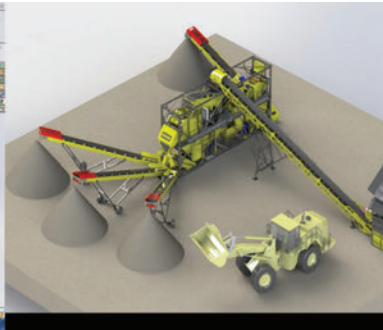
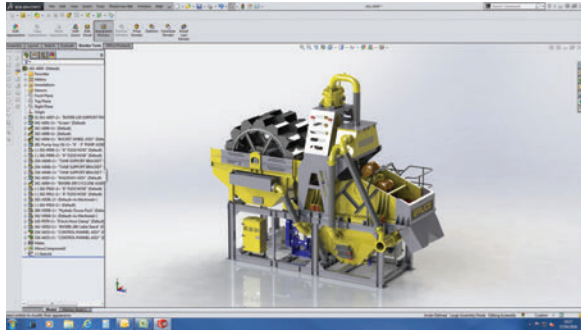


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Bruce Materials Processing Solutions at Hillhead 2016



Sand Recovery Unit efficiently washes sand, reclaims fines and dewater sand in a modular self-contained unit. As well as our washing range, not to mention the successful launch of the "Bruce Washpod" at Hillhead 2014, visitors will be able to view the BWB120 –

Bruce Materials Processing Solutions are delighted to be exhibiting at the upcoming Hillhead Show in June.

Following a hugely successful Bauma Show where we appointed a new Scandinavian Dealer, we look forward to our attendance at Hillhead to meet past, present and new customers. We also enjoyed our participation at the recent Scotplant exhibition and building on this we await eagerly for our attendance at Hillhead, where we shall have a range of Bruce Washing Equipment on display.

Bruce will be promoting our Sand Recovery Plant – BWSRB120. Easily paired with and complementing most makes of mobile or static Washing Screens, the Bruce BWSRB120

Bruce Water Separator. Combining our washing and recycling talents, the BWB120 is designed for the removal of lighter density materials from waste streams, leaving a clean end product ready for re-sale. Lastly but certainly not least, the famous "Bruce Feeder" will be available for display. In production and refined over the last 55 years we are very proud to showcase a very significant machine from our catalogue that has enabled us to develop a significant market for the "Bruce Feeding" range.

Bruce sales and engineering staff will be on hand to answer questions and discuss your requirements and we look forward to welcoming you and your colleagues.



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Martin Engineering's success can be attributed to the development of practical, field-proven, cost-effective answers for "real life" problems. All products are designed for tough industrial conditions, built to allow easy maintenance and engineered for simplicity, cleanliness, safety and efficiency.

As a corporation, Martin Engineering has invested heavily in facilities and equipment to become a world-class manufacturing operation. Global headquarters in Neponset, IL, includes a 130,000 square foot (12,126 m²) facility, with 109,000 square feet (10,077 m²) of manufacturing space, 19,000 square feet (1,765 m²) of office space and a 2,000 square foot (186 m²) training center.



The company's Center for Innovation adds an additional 22,630 square feet (2100 m²) of Research and Development Laboratories at the company's Neponset campus. This new building houses Environmental, Metals, Polymers and Bulk Materials laboratories, as well as test areas for conveyor products, air cannons and engineered vibration. Facilities include a training room with kitchen and break-out area, plus a state-of-the-art video conferencing center. The firm delivers manufacturing, sales and service from factory-owned business units in Brazil, China, France, Germany, India, Indonesia, Mexico, Peru, Russia, South Africa, Turkey and the UK, and under exclusive license with ESS Australia. For more information, visit www.Martin-eng.com or call (309) 852-2384. Martin Engineering regional contacts can be found at www.Martin-eng.com/rep-finder.



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EDGE Innovate to launch the new MC1400 at Hillhead 2016

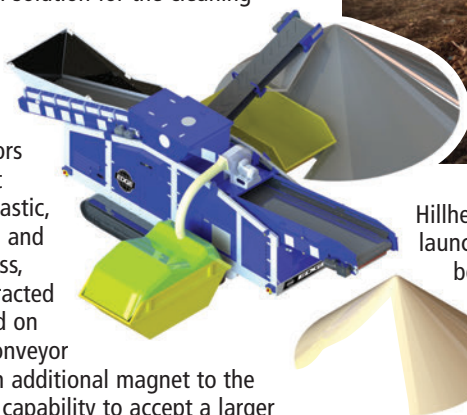


EDGE Innovate, one of the world's leading mobile material handling and recycling equipment manufacturers is to premier its new MC1400 track material classifier alongside its popular TRM516 mobile trommel and Slayer XL slow speed shredder at the upcoming Hillhead 2016 exhibition. EDGE Innovate are delighted to be launching this newest product offering at the Hillhead event, the UK's biggest live demonstration exhibition. The biannual event attracts up to 17,000 visitors with more than 450 exhibiting companies already confirmed for the 2016 event.

EDGE Innovate boast that the new MC1400 will provide operators with the ability to extract impurities from highly contaminated material in just one pass. The EDGE track material classifier utilizes controlled air flow as a separation medium, and provides the ideal solution for the cleaning of compost and biomass fractions with its ability to separate heavy and mid-weight fractions from lights.

The MC1400 will allow operators to separate up to four different fractions as standard; lights (plastic, paper, film) mid-weight (wood) and heavy fractions (aggregate, glass, etc.). Ferrous metal will be extracted via the overband magnet found on the heavy fraction discharge conveyor with the option of attaching an additional magnet to the mid-weight conveyor. With the capability to accept a larger piece size of up to 400mm (16"), EDGE Innovate states that the MC1400 is not only ideal for organic recycling and biomass fractions but also extracting valuable commodities from construction and demolition waste.

Available as track, semi-trailer or static chassis formats, operators have the option of selecting a unit with a diesel/hydraulic powerunit, a diesel genset or a direct electric drive. EDGE Innovate says that the MC1400 has been design to be shipped via a 40ft container with minimal break down needed. Simply track in and track out with limited set-up time required.



Hillhead is the perfect platform for EDGE Innovate to launch its newest product offering. The MC1400 will be on show alongside their popular slow speed waste shredder the Slayer XL and the mid-size mobile trommel the TRM516 on Stand C20.

To pre-book a meeting with one of EDGE Innovate's representatives at Hillhead 2016, please email info@edgeinnovate.com

The 17th edition of the biennial showcase event for the mining, construction and recycling industries will take place from 28-30 June 2016 at Lafarge Tarmac's, Hillhead Quarry, near Buxton, Derbyshire, England. To register for visitor pass please visit; www.hillhead.com



Terex Finlay announce exciting new product introductions at Hillhead 2016

Terex Finlay set to unveil THREE exciting new products at Hillhead 2016 in our largest ever presence at the show. At the show Terex Finlay will officially launch the NEW C-1540 direct drive cone crusher and 674 3-deck inclined screen. We will also preview the new I-140RS impact crusher in advance of its launch in Q3, 2016.

"We are looking forward with excitement to the upcoming Hillhead, 2016. We return to the showcase event for our industry with even more exciting new product introductions and a fantastic story to tell our customers. In total we will have 12 machines on display in what will be our largest ever presence at Hillhead. Literally every machine on display at the show is a new product introduction, been recently launched or a preview of another new model" commented Nigel Irvine, Sales and Marketing Director.

The full Terex Finlay machine line up is confirmed as follows.

Working area (in front of booth):

- J-1480 jaw crusher
- NEW C-1554 cone crusher
- NEW I-140RS impact crusher

Recycling areas:

- J-1170AS jaw crusher
- NEW 873 Spaleck recycling screen

Booth (static display):

- NEW I-140 impact crusher
- NEW C-1540 cone crusher
- NEW C-1545 cone crusher
- J-1170 jaw crusher
- J-960 jaw crusher
- NEW 674 inclined screener
- 883+ heavy duty screener

One of the highlights from the Terex Finlay crusher portfolio will be the official launch of the NEW C-1540 direct drive cone crusher. This machine has been developed to satisfy the requirements of the medium sized owner operator and contract crushers. The machine has been well received at a number of customer preview events and we are pleased with the initial order levels being placed on the factory. We will also be exhibiting our C-1545 cone crusher at the booth. We introduced this machine in late 2015 and have been delighted with the uptake and acceptance from the international market.

From our extensive range of impactors we will be displaying our new I-140 impact crusher. This next-generation impactor was premiered at the 2016 Bauma exhibition and was one of the stand out machine launches at the show. We will also be previewing the latest development with the preview of our I-140RS impact crusher.



From our comprehensive range of jaw crushers we will be exhibiting the ever popular J-1170 and J-960 jaw crushers. Both these machines are well respected and key models for the important UK and European markets.

The Terex Finlay screener line up is equally impressive and we will be launching our NEW 674 inclined screen at Hillhead. This small to mid-size inclined screen has been specifically developed to appeal to the contract crusher and small scale owner-operator looking to produce four specification products from the one platform.

The 674 inclined screen has been developed to enter new space in the mobile screening market. We're excited by the buzz and interest that has been expressed in this new model and expect it to be a real star of the show.

From our 8-Series range of we will be showcasing our biggest volume machine, the 883+ heavy duty screener and our recently introduced 873 Spaleck recycling screener.



'Crusher Alley' demonstration

Terex Finlay are 'unleashing the beasts' in the main working area in the form of the J-1480 jaw crusher and recently launched C-1554 cone crusher. These two heavyweights are sure to be show stoppers during the live working demonstrations with the tonnage of material that they will put on the ground. These large capacity workhorses have consistently been producing up to 800 tph and will be demonstrated showing the production capacity during the show.



Terex Finlay will also be previewing the new I-140RS impact crusher in the main working area in advance of its launch in Q3, 2016. This exciting new machine features an onboard detachable sizing screen and recirculation conveyor for producing a spec'd product. For applications not

requiring utilization of the recirculation system the conveyor can be slewed into position and used as a stockpile conveyor. Used in this configuration the machine can produce three products from one platform.

Recycling areas demonstration

In the recycling working areas Terex Finlay will be exhibiting the J-1170AS jaw crusher and new 873 Spaleck heavy duty recycling screener. We previewed the J-1170AS at Hillhead 2014 and put the machine into serial production in early 2015. This highly adaptable machine has been well received by contact crushers and owner operators as it provides the

flexibility of a crushing and screening plant on one platform for use in mining and recycling applications. The detachable on-board sizing screen can be quickly removed allowing the operator to use the machine as a standard unit depending on the application.

The 873 Spaleck recycling screen is the latest model to be developed in partnership with Spalck GmbH. Launched in late 2015 this machine has gained positive traction in the global market, particularly in those markets where machine movement from site to site is complicated. The machine still provides impressive material processing capabilities in aggregates, sand and gravel, construction demolition and recycling applications but from a more compact transport envelope to the existent 883+ model.

The top deck 3D screening segments and bottom deck flip-flow technology put this machine into a class of its own, even in wet, difficult and sticky applications where are machines would struggle to operate with minimal downtime.

"We have seen the power of 'listening to our customers' and what a culture of positive leadership and working together can accomplish. All of us at Terex Finlay are committed to delivering even more of the great products and innovations that will deliver growth and define our company going forward." Commented Paul O'Donnell, Terex Finlay Global Business Line Director.



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New Doosan & Bobcat Equipment at Hillhead 2016

Doosan Bobcat EMEA will be showing a wide range of new generation products from the company's Doosan Heavy, Doosan Portable Power and Bobcat ranges for the first time at the Hillhead 2016 Exhibition from 28-30 June 2016.

This includes the first showing of the flagship DX530LC-5 52 tonne Stage IV compliant excavator, where the phenomenal stability and very wide digging platform are combined with the best in class lifting capacities over both the front and side, with the lifting capacity over the side being increased by an impressive 12%.

Doosan will also show the new DX255LC-5 25 tonne crawler excavator for the first time at Hillhead. Whilst overall dimensions are very similar to the previous DX255LC-3 model, the DX255LC-5 Stage IV excavator combines greater power with a 500 kg increase in operating weight, resulting in increases of up to 17% in lifting capacities over both the front and side and a 1 dBA reduction in sound levels.

The top-of-the-range DL550-5 wheel loader will be demonstrated for the first time in the UK. Like the DX530LC-5, it is powered by the Scania DC13 engine, which provides generous torque at low rpm, up to a 10% reduction in fuel consumption, excellent response and meets Stage IV emission regulations without the need of a diesel particulate filter.

The same engine powers the new Stage IV DL420-5 wheel loader on the stand, which like the DL550-5 is intended to meet a wide range of material-handling needs from loading and transporting granular material (such as sand and gravel) to industrial, mining and quarrying applications.

Doosan Portable Power

Hillhead 2016 will provide a platform for the market-leading ranges of portable compressors, generators and mobile lighting systems from Doosan Portable Power. Alongside the 7/41G Tough Top generator-compressor and the Stage IIIA compliant G100-IIIA generator, the company will be showing the new 12/254 portable compressor for the first time at Hillhead. >





Bobcat Compact Equipment

The product display on Stand W10 will also include the latest from the market-leading Bobcat ranges of micro- and mini-excavators, skid-steer loaders, compact tracked loaders and attachments.

Among the products on show are the T450 and T590 compact tracked loaders and the E10 and E26 excavators. Filling the gap in the range between the T110 and T590 models, this is the first appearance of the T450 at Hillhead. Manufactured at the Bobcat plant in Dobris in the Czech Republic, the T450 offers a massive increase in power combined with hydraulic and hydrostatic efficiency improvements that translate into significantly increased productivity.

Ideal for work in tight space applications such as recovering materials that drop under bulk handling conveyor systems in quarries and mines, the T450 is

The 12/254 is part of a new platform of five large Doosan Stage IV compliant portable compressors, which also includes the 9/274, 9/304, 17/244 and 21/224 models, offering free air deliveries from 21.5 to 30.0 m³/min at operating pressures from 8.6 to 21.0 bar. The new Stage IV compressors build on the high standards established by the Stage IIIB models, again combining compact size and easy serviceability to ensure a fantastic return on investment.

All the new compressors are powered by the Cummins QSL9 T4F 6-cylinder diesel engine which meets the Stage IV regulations without the need for a DPF. In the new 12/254 compressor, the QSL9 engine provides 247 kW (331 HP) of power at a full load speed of 1800 rpm. The 12/254 compressor has a free air delivery of 25 m³/min (883 cfm) at a discharge pressure of 12 bar (175 psi).



Large portable compressors like these provide compressed air for a wide range of drilling and boring machines for quarrying, mining, site investigation, geothermal, mineral exploration and water well



construction work. They also cover other specialist applications such as abrasive blasting, spray painting and standby and temporary compressed air for industry.

powered by the Bobcat D24 45.5 kW (61 HP) turbocharged diesel engine, providing 25% more power than its predecessor, the T140 model, ensuring the T450 has the best performance and engine power to weight ratio in its class.

There are more than 70 types of specialised attachments for the Bobcat loader and excavator ranges, from hydraulic breakers, crushers and planers and other construction and demolition attachments to scarifiers, graders, flail mowers, stump grinders and woodchippers for turf and forestry work. The usefulness and productivity of Bobcat compact equipment is continually being extended with the growth in the attachment range, saving time, effort and cost in carrying out an increasing range of applications.



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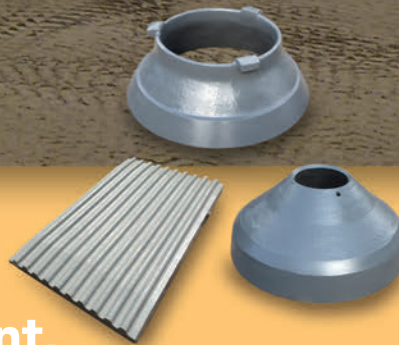
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SCG at Hillhead 2016



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SCG's core activities remain the same so you can expect plenty of expertise on screening, crushing, and conveying spares from Stephen Grieve and Michael Hendry who will be showing sample stock items, such as crusher manganese, conveyor components and ancillary spares, and consumables.

The SCG team has grown since the last show due to the demand from loyal customers. For those plant operators using Komatsu and JCB machines, Allan Black, a familiar face in the industry, will be on hand to discuss customers' requirements. Many companies will have dealt with Allan during his long service at Marubeni-Komatsu where he headed up their parts department in Scotland. There will also be a selection of stock excavator, dozer, and backhoe-loader parts to see.

This year SCG are bringing a range of screening and crushing buckets from the new Startech Screenpod series. These will be available for delivery directly after the show

At Hillhead 2016 you can find SCG at the end of the entrance ramp at Stand C15.



www.hub-4.com/directory/10150

Baioni: Ahead in dehydration systems

Designed to cope with the demanding tasks of sludge dewatering and separation of fine particles contained in suspensions with a high content of abrasive material and high solids flux, at Hillhead 2016 Baioni Crushing Plants of Italy will be displaying the latest BaiPod high performance centrifuge, the new compact dewatering unit complete with all equipment readily installed for a complete dewatering plant and to process a wide range of sludges, to achieve high dewatering performance, high solids throughput even at a high rotational speed difference.



Baioni Crushing Plants of Italy continues to advance decanter centrifuge technology to improve efficiency, safety, performance and return on investment for their customers in a variety of applications. The BaiPod unit is suitable to meet season demand, cover during maintenance or as part of a disaster recovery program following a major breakdown, with a competitive rental cost for those who need to.

This system comes complete with state of the art controls, polymer distribution system, which is finitely controllable, also feed pump all mounted on a roll off chassis which is designed to fit into standard shipping containers making the unit easy to move from site to site if required. The BaiPod can be installed and operational within the day of delivery providing all the necessary services are available.

Baioni combines new engineering with well-known durability and operational reliability in a new product that is fully controllable and therefore simple to operate. The BaiPod comes in 3 model sizes 36v, 47v and 65v with capacities from 0.5 tonnes to 20 tonnes per hour of solids collected from flows of dirty wash water as low as 63 microns making these plants ideal for recycled aggregate washing sand and gravel washing, enabling the wash water to be immediately returned to the wash plant for reuse in the washing process.

Details and information will also be available on the following services that Baioni can provide:

- bespoke designed modular crushing plants;
- bespoke designed modular aggregate washing plants;
- the latest soil washing systems for reclaiming contaminated soils;
- wastewater management for recycled aggregate washing sand and gravel and quarry operations silt removal from old lagoon operations.

See us on stand no: H4



www.hub-4.com/directory/2889



Metso to prolong the exclusive distributor agreement with Garriock Bros in the UK

After 11 years of collaboration, Metso and Garriock Bros Ltd, one of Scotland's largest privately-owned businesses, continue their partnership.

Metso, manufacturer of equipment used in the quarrying, mining and oil and gas industries, renewed its exclusive distributor agreement with Garriock Bros Ltd in the United Kingdom.

Garriock Bros Ltd has been distributing Metso's mobile products since 2005 when they became the official Scottish distributor and saw its distributorship extended in 2011 to include England and Wales. The renewed contract was signed in the company's premises in Coventry in May 2016.

"Garriock are a partner offering a world class sales and support organisation throughout the UK, who have invested heavily in facilities, tools and people to ensure that the Metso Lokotrack brand is well maintained.

Garriock Bros are our exclusive partner for track mounted crushing and screening equipment in England Wales and Scotland, offering the customer base a large number of services from quickly delivered new equipment from their large varied inventory held in both Edinburgh and Coventry, high quality fully refurbished second hand equipment, rental, lease to buy, high level service and technical support, and genuine OEM spares and wears.

The last ten years have been a true journey, but I can say that Metso have a truly great partner in Garriock Bros and that we look forward to working in unison for many years to come", points out Adrian Wood, Metso's Head of Distribution Agg Business Line.



"Renewing the contract with Garriock Bros Ltd, is a logical step after more than 10 years of good collaboration.....", he adds.

Garriock's journey started in September 1975 with its main activities being predominantly building Norwegian Fjogstad houses across the North Isles followed on by diversifying into plant hire and sales. From 2002 they became active in the crushing and



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screening business when they took over a contract crushing operation in Newbridge, near Edinburgh. Since then more acquisitions followed and today they operate ten different UK based divisions providing a diverse range of civil engineering, house building, plant hire, quarry operations, ready mix concrete, machine sales and window manufacturing services and employ around 160 people turning over around £24 million, with the Metso distributorship now accounting for around a third of the business.

"We are delighted to continue our partnership with Metso" said George Garriock, Managing Director of Garriock Bros Ltd. "Our sales success is attributable to the fact we are selling the best designed modern equipment in the world."

"Metso UK and the factory are constantly giving on-going training and product support to Garriock Bros. to help grow

the business through quality, and the relationship with Metso is first class and the quality of their engineering is superb, at the factory they have their own foundry and all impurities are taken out during processing before it goes to production. We are very happy with the partnership with Metso and the quality of the machines and this side of the business is set to grow substantially. We are also very strong on second hand Metso machines and have contacts worldwide so export many machines each year. We pride ourselves on refurbishing the machines so they are like new and there is a very good second hand market for Metso machines, as they command such a good price."

Offering a UK wide service coverage their own engineers visit clients sites to make sure that any downtime is kept to a minimum, and stock for spares and parts is carried in-house across the depots, so can reach the customer quickly. To find out more about Garriock Bros. please visit www.garriock.co.uk



**Come and see
us on stand
number M1**

Garriock Bros. Ltd will
be exhibiting on the
stand a Metso LT120 Tracked Jaw Crusher,
Metso LT1213 Tracked Impact Crusher and
a Metso LT300HP Tracked Cone Crusher.



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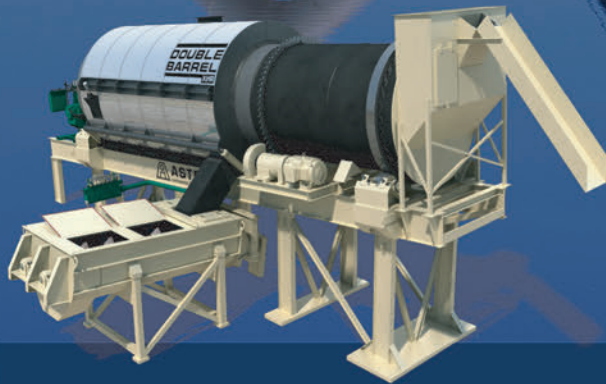
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Metberg Enviro Launches NEW trommel!!

Metberg Enviro, the Northern Ireland based portable conveyor manufacturer to the mining, quarrying and recycling industries are pleased to announce the launch of the Metberg Enviro 3000 series Trommel Screen.

The 3000 series Trommel has been introduced following demand from customers who require a machine that is compact mobile and able to handle volume and feed size. Metberg Enviro Sales Director Jody Kinghan said "We are excited to add these two NEW machines to our existing product portfolio. We have listened to our customers and dealers worldwide and both products are full of new features. The W3000 /T3000 trommel will continue to push the boundaries in the mobile screening industry. The launch of the new machines follows a stringent development cycle have been tested and proven in a diverse range of product applications and we have every confidence that these machines will be a success".

The New 3000 series trommel is the ultimate in modern design, offering operators unrivalled application flexibility, production rates and serviceability. A highly efficient engine (CAT 2.2 Turbo) and hydraulic drive system offers maximum production combined with minimum costs. It is ideally suited for screening compost, biomass, soil and gravel and waste.

With a rapid setup time of just 5 minutes, special consideration has been given to minimize change out time for the screening drum and the interchangeable screen mesh. The process which takes a matter of minutes places the Metberg Enviro trommel as a market leader.

Unprecedented levels of service access, catapults the Metberg Enviro 3000 series trommel into a league of its own. All conveyors are built to a modular design allowing each one to be removed independently for ease of maintenance.

Hinged doors on both sides of the drum offers unobstructed access for maintenance and cleaning. The machine has been designed to run at a low engine RPM reducing fuel usage emissions and noise levels.

Tackling the volume of waste going to landfill has been an issue for waste companies for many years. As the landfill tax has increased the effort to recycle has intensified with millions being spent on equipment to help recover anything that has value. For some it means elaborate waste systems with serious investment to aid this recovery, for others a much smaller investment can save lots of money.

Metberg Enviro has witnessed a significant increase in the need for a compact trommel to reduce trommel fines. The trommel screen steadily works its way through huge piles of waste, saving the operator money in landfill taxes as well as potential revenue from the segregated waste.



The Metberg Enviro 3000 series trommel provides the solution to separate the 'qualifying materials' from the 'non qualifying materials' prior to landfill and therefore avoiding the higher rate of tax. The 3000 series trommel has a return on investment of only a few months. From the moment the mixed waste enters the trommel it is broken down and smaller particles such as soil are sifted out.

Further separation of the oversized waste can be further separated by trained 'picking operatives' who remove only wood, plastic cardboard or other valuable recyclable materials. An option of an overband magnet can also be fitted to collect any scrap metal.

Excellent throughputs, robust build and easy to use functions are only a few of the comments received from customers buying or renting the Metberg Enviro 3000 series trommel.

Due to ever changing market conditions and demands of the modern trommel the machine will be available in wheeled, pintle drawbar, or tracked configurations.

For more information regarding brochures, videos and specifications please visit our website, contact Jody Kinghan at sales@metbergenviro.co.uk or call him at 07530818901

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Anaconda using Hillhead as launch pad for new DF514 'Tracked Scalping Screen'

Anaconda Equipment International, the Northern Ireland based manufacturer of screening and conveyor equipment, will launch the DF514 Tracked Screener at the Hillhead exhibition in Buxton, England (June '16). Anaconda will be exhibiting at Hillhead for the fourth time and will show the latest products from their range on STAND E9.



The New DF514 is another move up the scale in terms of machine size for Anaconda. The DF514 has a 14' x 5' (4.27M x 1.52M) double deck screenbox, a CAT 4.4 water cooled engine (100HP), belt or apron feeder option, three integral stockpiling conveyors and a crawler track chassis for ease of movement around/off site. The unit has hydraulic folding hopper sides as standard, hydraulic screen angle adjustable from 15-19°, hydraulic screenbox raise/lower for ease of mesh change and wired remote as standard (radio remote optional).

Anaconda will also showcase the FSL100 heavy duty scalping screen which is particularly popular in the UK. The machine is powered by a Deutz 3b TD2.9L4 Engine developing 50kw (67HP). The FSL100 has the longest stockpiling conveyor on the market for this type of scalper and is ideal when working area is limited. Extremely robust, the unit can be used on quarry and recycling applications.

If you would like more information on the new DF514, the FSL100 or any of the mobile screens and conveyors offered by Anaconda Equipment then please get in touch with your local dealer representative.

Please visit www.anacondaequipment.com to view the full range of products on offer from Anaconda.



www.hub-4.com/directory/12687

Terex Washing Systems to unveil new products at Hillhead 2016

Terex Washing Systems will launch a number of new product lines serving an increasingly diverse range of materials handling sectors. First in the new product line-up is the eagerly awaited Modular Scalping Unit. This modular chassis-mounted scalping unit brings operators a well proven, cost effective and durable machine in a modular all-electric format. AggreScalp is ideal for C&D recycling applications as well as quarry and mine overburdens and integrates seamlessly with other key TWS systems including AggreSand and AggreScrub.

Another much anticipated launch is the new track mounted AggreStac conveyor range, the first in a new and growing range of Terex conveyor solutions. These have been conceived and designed to integrate the long heritage of compact mobile conveyors within Terex together with a complete review of market demands and new technologies.



The show also sees the unveiling of a new ultra-fines recovery system. Increased fines recovery is an increasing demand within numerous facets of the washing industry. By capturing as much fine / suspended solid

material in advance of water management stations operators can significantly reduce required overall equipment investment, reduce final waste volumes and by the same measure increase potentially sellable output. The system is receiving significant interest from recycling and remediation operators including dredgers but is also very attractive to quarry and mining operations keen to reduce tailings and the associated costs.

TWS team members will be on hand throughout the event to introduce these latest innovations and to offer their unique combination of experience and expertise to customers seeking maximum efficiency, performance and serviceability from their materials washing equipment.

Visit us on stand, H6, and let us introduce you to our latest product and innovations.

For more information on Terex washing systems visit: www.terex.com/washing



www.hub-4.com/directory/15386



Hyundai shows the new HX and HL range of machines at Hillhead

The Hyundai Heavy Industries Europe stand at the Hillhead 2016 event (28th - 30th June, Buxton Quarry, Derbyshire, UK Stand X1) will feature eleven machines including models from the new HX range of excavators and the new HL range of wheeled loaders.

Hyundai is also planning live demonstrations in the quarry face demo area of the 52 tonne HX520L crawler excavator and the new 31 tonne HL980 wheeled loader, which made its debut at this year's Bauma exhibition.

Also on the HHIE stand will be examples of the -9A models including the R17Z-9A, R25Z-9A and the R80CR-9A crawler excavators. The latest HL models of wheeled loaders will also be on show including the 18 tonne HL960 and the new 23.5 tonne HL970 which was launched at Bauma earlier this year.

Hyundai Machines on the stand include:

R17Z-9A	Mini Zero Tail Swing 1.7 tonnes excavator.
R25Z-9A	Mini Zero Tail Swing 2.5 tonne excavator.
R80CR-9A	Mini 8 tonne excavator.
HX140L	New 14 tonne excavator.
HX220L	22 tonne excavator.
HX300L	New 30 tonne excavator.
HX480L	New 49.5 tonne excavator.
HL960	18 tonne wheeled loader.
HL970	New 23.5 tonne wheeled loader.
HL980	Demo New 31 tonne wheeled loader.
HX520L	Demo 52 tonne excavator.

The New HX Range of Excavators at Hillhead.

Enhanced Instrument Panel for Easier Monitoring Simplifying the Control Settings

One of the most important innovations on the new HX series is the new and larger 8 inch touchscreen monitor – the cluster monitor displays information which mirrors what you would see on your smart phone and is 30% larger than previous models. It's also easy to read and the main view of the screen can be adjusted according to the preferences of the driver. It can be controlled via touch control and/or new haptic controller. Connecting to a mobile phone is easier than ever with the bluetooth connection to the machine's radio.

Fuel Efficiency - Systems to Reduce Consumption

The new HX range is fitted with an ECO Gauge which enables the economic operation of the machines. The gauge level and

colour displays engine torque and fuel efficiency level on the touchscreen monitor. In addition, the gauge indicates the status of fuel consumption such as average rate and the total amount of fuel consumed. The range can offer a reduction in fuel consumption from 6% to 12% - depending on the type of operation – in comparison to Hyundai's 9A series of machines.

Hourly and daily based fuel consumption can be checked and detailed too which helps the operator run the machine more economically and efficiently.

The HX series of excavators have a function that turns the machine off when it enters an 'idling' state which also minimises unnecessary fuel consumption and emissions. Operators can select operating mode and 'idling' time depending on work environments which improves its efficiency even further.

The IPC (Intelligent Power Control) controls power depending on work environments. Its mode can be selected and released on the monitor – on the excavation mode – pump flow can be more cleverly controlled, reducing fuel consumption





The new Electronic Fan Clutch offers the highest in control efficiency and the best in fuel efficiency. There is also an Eco Breaker Mode where two hydraulic pump summation is available for breaker operation.

Flow and pressure setting for attachments - new options available

The new machines can offer up to 10 breaker and 10 crusher settings. The boom can float freely by connecting to the cylinder head and/or the rod directly to the tank. A power boost button is available to over-ride floating boom.

Other new options include - Fine Swing Control which can be installed in order to ensure a softer stop of the swing with minimal shock load. A Swing lock is an operator-controlled locking mechanism which cuts off swing pilot signal. A Straight Travel Pedal is also an option – the straight travel pedal reduces operator fatigue while traveling greater distances. Instead of holding down both right and left pedals the operator can easily travel by just holding down one pedal.

Cycle time improvement

The HX Series provides higher productivity onsite by faster operation and can load trucks up to 5% faster and levels up to 4% faster than the 9A-Series. In order to achieve efficient grading, the HX series can apply boom floating control using arm-in and arm-out operation only, allowing stable operation even **in high-load work.**

New, Exclusive Safety Features

New safety features include Hyundai's exclusive AAVM (Advanced Around View Monitoring) System for 360°-surround virtual operating view – which displays on the 8-inch cluster-monitor. The system consists of an Around View Monitoring (AVM) system that give a 360°-surround virtual operating view and an Intelligent Moving Object Detection (IMOD) system that senses and warns the operator when objects come within working distance of the machine.

New exterior design increases durability and safety

The HX range have newly designed cabins - a new larger front screen has been incorporated and the driver's door is now easier to open from the inside with an additional handrail. The interior of the HX cab offers 13% more space for the operator (compared to 9A-series). A newly developed air conditioning system provides better air circulation in the cab.

Hi-mate (Remote Management System)

The machines are also fitted with Hi-Mate, which is a remote management system, developed by HHIE. Through its satellite powered technology, customers can now enjoy an unmatched level of service and product support. With one press of the button, users are able to remotely evaluate machine performance, access diagnostic information and verify machine locations. It's even possible to program a virtual 'geo-fence' to prevent the machine from leaving a specific area.





Reliability and Serviceability

Enhanced reliability features on the HX Series include reinforced longer-life pins and bushings coupled with wear-resistant polymer shims and newly designed cab shock mounts with dual shock absorption for reduced vibration and noise, which also improves operator comfort. Serviceability enhancements include ground-level access to the fuel filter and convenient exterior access to the cab air filter. Additional guard rails provide greater safety while performing maintenance and inspections on the upper structure deck.

The New Range of HL Wheeled Loaders at Hillhead

Improved Safety Features

Safety is a key design element for the new HL Series. For added safety when getting on and off the machine or for inspection and maintenance, Hyundai's new wheel loaders are equipped with large access steps to the cab, convenient grab handles and upper guard rails near the engine compartment. The larger cab improves cab entry and exit. Ergonomically positioned operator switches, controls and other features make it easier to quickly access critical functions. Additional features on the new wheel loaders include an improved rear view camera that delivers higher resolution and enhanced night time visibility.

Environmental features

In addition to being more fuel-efficient – the new HL Series of machines have many other environmentally friendly features.

Automatic shutdown of engine prevents unnecessary fuel consumption and emissions. The HL Series turns off the engine when it enters into an 'idling' state. Operators can select operating mode and 'idling' time depending on work

environments which improves its efficiency even further.

The Eco Pedal gives feedback (increased pedal pressure) to the operator to stay in the engine's economical operating range. The electro-hydraulic fingertip control, available on select models, provides additional precision and reduces operator fatigue. The colour-changing Eco Gauge provides the operator with a visual reference of fuel efficiency, total fuel consumption and average fuel data. Machines are equipped with five-speed automatic transmission with a lockup clutch (HL955-HL980) which improves efficiency and minimises heat.

The HL Series also feature a 'travel speed limit control' where the operator can limit the maximum travelling speed within a range of 20 to km/h to suit diverse working conditions which improves operational effectiveness.

New Cabin offers more comfort for the operator

Silent, safe and comfortable, the 10% larger ROPS/FOG/FOPS new cabin with fully adjustable seat provides an ergonomic working environment that offers the ultimate in comfort for the operator.





The new cabin is fully sound-proofed using state-of-the-art noise reduction technology which ensures maximum silence (68 dB) when working in noisy environments such as quarries or waste handling depots – the new models benefit from a 2dB reduction in cabin noise over the 9A Series of machines.



The new air conditioning system maximise heating and cooling performance by optimising air flow through the cabin. The electro-hydraulic integrated control lever allows operators can operate attachments with ease which in turn enables greater productivity and minimises operator fatigue.

Hyundai's 'Infotainment' system for the operator's convenience

The new HL models are optimised to enable operators to access accurate equipment data in quick time. This feature is of particular importance when working in tough environments to improve productivity.

The intelligent seven-inch touch wide screen monitor is similar



to a smart phone display and is larger than the previous models and is easily read. The Audio System, which includes a radio, has an integrated Bluetooth hands free feature, and a built in microphone allowing the operator to safely take and make calls when in the cab.

The 'Infotainment' system also allows the operator to enjoy the Miracast system which works via the WiFi of the operator's smart phone and enables easy use of the smart phones features on the big screen including navigation, web surfing, watching videos and listening to music.

Soft end stop

Touchscreen monitor and EH controls allow several (new) features like 'Soft End Stop', bucket priority and boom bucket detent mode, to be controlled through the touchscreen. The 'Soft End Stop' delivers - when an attachment reaches the end of a stroke - a 'shock free' operation by reducing the speed of the attachment near the end stroke. This function can be disabled through the monitor should the operator not want to use this function.

New Weighing System

The HL Series improves work precision with additional weight calibration. The automatic/manual cumulative weighing function greatly improves operating efficiency. Icons displaying weighing errors and the two-colour weight value indicator on the monitor enable accurate weighing to support efficient production management.

Redesigned Buckets

Hyundai engineers have also redesigned the wheel loader buckets on the HL series and they now have a better fill factor, an additional spill guard to minimise spillage of loaded materials and changeable heel plates.



Ease of maintenance - electric retractable engine hood.

A flick of a switch is what it takes to gain complete access to the engine compartment of Hyundai's new wheel loader – a brand new feature not seen before on the previous range of Hyundai wheeled loaders. The fully retractable engine hood allows easy cleaning and maintenance.

The HL Series has a large-volume air cleaner, an automatic dust ejector and a three-stage turbo pre-cleaner, as an option, to improve the replacement cycle and durability of supplies. The machine also has a fully sealed engine room, designed to prevent the possibility of fire caused by the inflow of 'foreign materials'.

Hyundai Heavy Industries UK and their nine dealers will be on hand at Hillhead 2016 to talk to visitors through the many advantages of having Hyundai machines on any fleet. Also to discuss the outstanding technical support, which has become synonymous with the Hyundai brand, and the 24 hours parts availability. Hyundai machines have a full standard warranty of two years/ 3000 hours.



www.hub-4.com/directory/13487



Understanding your business at Hillhead 2016 – 28th, 29th & 30th June

We will be taking advantage of Hillhead 2016 to highlight the total solutions nature of our world-leading product ranges. This year will see a focus on mobile crushers and screens, as well as recent developments from Customer Services. Additionally there are a number of product launches planned, as well as live demonstrations in front of the stand.

The Sandvik product offering provides solutions for virtually any application, and encompasses such diverse businesses areas as surface rock quarrying, excavation, tunnelling, demolition, recycling and civil engineering. The range of products developed to service these industries includes rock tools, drilling rigs, breakers, tunnelling equipment, crushing and screening machinery, bulk-materials handling systems - in fact equipment and support to deal with virtually every possible requirement.

As the world's leading "live-action" show, Hillhead 2016 will see us highlight the total solutions nature of our product ranges, with many market leaders being shown. Additionally a number of UK and Global product launches are planned. Live demonstrations of mobile crushing and screening equipment will be held in front of our stand, with other solutions also being demonstrated on the stand.

Products being shown include:

Mobile Crushing & Screening

- QJ341 best-selling jaw crusher with NEW pre-screen – GLOBAL PRODUCT LAUNCH
- QH331 hydrocone with hanging screen
- QI441 Prisec™ impactor
- QJ241 compact jaw crusher
- QE241 highly versatile scalper with unique configuration of two conveyors on one side
- QE441 heavy duty scalper ideal for quarrying and aggregates
- QA441 Doublescreen

Customer Services tools, consumables, wear parts and solutions

- Optiagg mantle
- Sandlock lifting device demonstration
- Parts Evolution including live demonstrations on the stand
- A selection of rock tools
- Screening media display
- Wear protection display
- Selection of wear items including crusher jaws, mantles and concaves

Other equipment and services

- Bretec breakers: C2, M5/M7, M15 and L20C
- Ranger DX800 drill rig
- CH540 stationary cone crusher



What really makes Hillhead exciting and different is the live equipment demonstrations at the quarry face. This year we will be demonstrating the following mobile crushers and screens:

- QJ341 jaw crusher with NEW pre-screen
- QS331 cone crusher with hanging screen
- QJ241 jaw crusher feeding QA335 Doublescreen

With live demonstrations of some of the most important pieces of Sandvik equipment being held hourly directly in front of the main pavilion on the stand, a focus on providing solutions for our customers, Hillhead will certainly be a showcase event for Sandvik Construction in 2016.

The Sandvik Construction stand will be located at: Stand J1

We look forward to seeing you in Buxton!



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See us on stand
W3 at Hillhead 2016



Kubota



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Tesab Launch New 700i Jaw Crusher at Hillhead



Tesab will be launching their NEW 700i Jaw Crusher at Hillhead 2016! Based on the proven 10570, the 700i weighs less and is more streamlined and powerful machine with the ability to produce 400+ TPH!

With its user friendly design, the 700i is now easier to manoeuvre onsite and can be easily transported around various markets due to its new weight and dimensions, whilst still keeping the original Jaw Crushing unit at the heart of the machine - ensuring it maintains the robustness needed for a Jaw Crusher designed with Contractor use in mind.

The 700i is quicker and easier to set up than ever before which dramatically reduces downtime between jobs as it can be ready to go in minutes! It also features hydraulic locking extension cribs, eliminating the need for lifting gear and improving overall health and safety by eliminating risks during setup.

With a 2 deck independent pre-screen, production costs are reduced as a sized product can be produced on the side belt while the new and improved step deck vibrating feeders allow a higher throughput tonnage, improved material separation quality and the ability to handle dry, damp or wet material – making the 700i a highly versatile Jaw Crusher!

Along with this new product launch, Tesab will have their 800i Jaw Crusher working in the demo area along with a Trackstack 8042T Tracked Stockpiler – giving you a perfect example of a popular Tesab application in action! There will also be a 623CT Impact Crusher and 8042T on display so come speak to a member of the Tesab team at Stand L4!



www.hub-4.com/directory/819

Escape to Africa and explore our expertise!

For the second consecutive show, DUO Africa will exhibit at the forthcoming Hillhead exhibition, Buxton, Derbyshire.

DUO Africa is the official Powerscreen and Terex representative selling equipment and support across the African region, who provide a comprehensive package offering everything from individual plant options to bespoke design and turnkey operations.



DUO Africa is a Ghanaian based company with extensive experience in the industry. Along with providing equipment from their stock of Powerscreen and Terex spares, their team of highly experienced service engineers can provide a full maintenance and aftersales package including on-site support.



With an impressive portfolio of successful multiple Washing, Crushing and Screening projects DUO Africa is your 'one stop shop' for the Quarrying, Recycling and Mining sector.

With three strategically placed depots in Ghana, Nigeria and Tanzania, they are able to sell equipment and provide support right across the African Belt.

Please visit DUO Africa on stand HII where a warm welcome awaits you...

www.duoafrika.com



www.hub-4.com/directory/16743

LAP Electrical is a proud UK based manufacturer of high quality automotive electro-mechanical products.

We are an established name in the development, production and distribution of emergency warning lighting & safety devices, including LED beacons, lightbars, reversing CCTV systems and back up alarms.

With over 25 years' experience in the OEM and aftermarket sectors our products are ideally suited for the construction, agricultural and road-going vehicle markets.



Manufacturing in the U.K.



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Email: enquiries@lapelec.co.uk

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Come and see us at Hillhead 2016**



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Meet SAMSON Materials Handling Ltd. at Hillhead 2016

SAMSON Materials Handling design and manufacture a range of mobile equipment for effective conveying of materials for diverse mining and quarrying operations. From pit face to onward processing and export SAMSON provide equipment that minimises touchpoints and maximises efficiency.

SAMSON specialises in tailoring equipment to the precise needs of the individual customer. SAMSON will be showcasing solutions and expertise gleaned in almost 50 years of experience.

The SAMSON Material Feeder eliminates the need for fixed civil works and truck ramps. It is the ideal mobile solution to receive materials such as coal and aggregates where fixed plant is not a viable option. Stockpiling is made simple with minimal movement of equipment. The Stormajor® range can be tailored to specific stockpiling requirements in terms of material characteristics and space for stockpile. Barge, ship or rail car loading is facilitated with an outloading boom and controlled discharge rates. The Stormajor is compatible with wheel loaders, articulated dump trucks and road tipping trucks. Best of all the Stormajor range is highly manoeuvrable and can be removed from the area when not in operation and the boom can be folded in for transport.

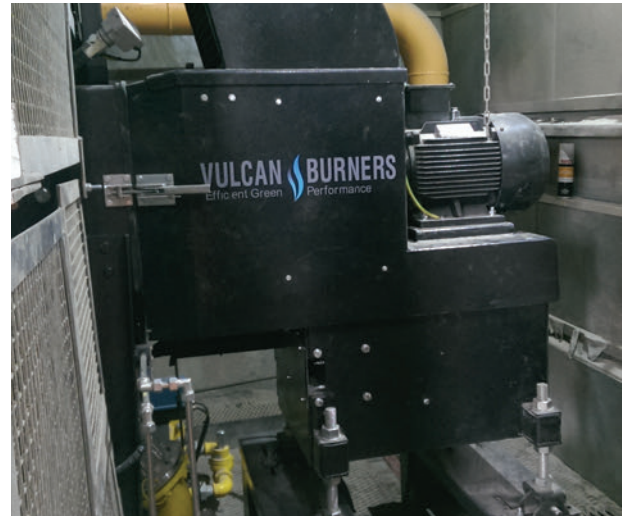


SAMSON Stormajor® Boom Feeder

For larger shipping requirements the SAMSON Shiploader can quickly convert a multi-purpose berth. It can be used for loading bulk carriers to post Panamax size and when combined with twin SAMSON Material Feeders peak loading rates of over 2,000 tons per hour are possible with through the ship rates in excess of 1,500 tons per hour.

The SAMSON Eco Hopper is a dust controlled grab unloading hopper which provides an economically and ecologically sensitive solution designed to suit the characteristics and flow properties of virtually any bulk material such as limestone, iron ore, bauxite, coal, clinker etc. Rates of up to 5,000 tons per hour can be achieved depending on the grab crane's performance.

Vulcan burners help company access energy and CO2 savings via £5 million fuel-switching investment



A landmark utilities connection agreement has seen CEMEX UK reduce operational expenditure and CO2 emissions through an innovative third-party investment solution from Decarbon Capital. The two organizations successfully achieved a significant private investment whereby CEMEX would connect 10 of their UK sites to the national gas and power transmission systems with the assistance of upgrading their Asphalt Burner systems with Vulcan Burners.

The final 10th site has been successfully commissioned at the start of 2016. The entire project as a whole has been hugely successful for Cemex and Vulcan Asphalt Group are delighted to have been chosen as the burner provider for such a large program. The scale of the program indicates how investment can pay dividends to the end user through energy savings and using technology such as the Vulcan burner range can achieve such results! Also choosing Vulcan burners for this project shows the confidence the customer has in the burner range of choice as we have consistently delivered on efficiency savings & reliability. Plus providing the customer with an excellent aftercare service program from our dedicated engineers ensuring the customer is at peace of mind that the Vulcan Burner technology is maintained at an optimum manner.

Vulcan Burners will be exhibiting at the Hillhead Show at Stand E19 showcasing the Vulcan Burner ranges in Natural Gas, LPG and Dual Fuel options. Please come along to the show to discuss your requirements.



www.hub-4.com/directory/16962



www.hub-4.com/directory/11981

HARDOX®
WEAR PLATE



THERE IS ONLY ONE HARDOX®

Genuine Hardox only comes from the Nordic steel company SSAB. Hardox has for more than 40 years set the standard for extreme wear resistance and extreme toughness.

You can always tell it's an original Hardox wear plate from the marking printed over every plate's surface.

The marking will also tell which steel batch it comes from, the serial number, its length, width and thickness. It's like each Hardox wear plate having its own passport. Just by looking, you know you are getting the real thing.

Learn more about the world's only Hardox wear plate at hardox.com

SSAB Swedish Steel Ltd
Suite 6, Cranmore Place
Cranmore Business Park, Solihull
West Midlands, B90 4RZ, Great Britain
T +44 (0) 121 704 7300
E sales.uk@ssab.com

SSAB





HARDOX WEARPARTS WHAT IS IT?

The beginnings of Hardox go back to the seventies when the Oxelösund plate mill needed to find alternative customers, after the collapse of the Swedish shipbuilding industry. A quenching line had already been installed, and it was decided to further develop the products from this process. The first products were very basic compared to today, and much development has taken place over the years to develop different grades and thicknesses. Workshop properties have also been developed to enable cutting, welding, machining etc. by conventional means.

The pioneers of quenched and tempered steels at SSAB soon realised, that the only true way to develop the market for these new steels, was to have direct contact with the people who use them. This is still valid today, as it was during the seventies and eighties.

And of course it was important to have a brand to identify with. After some creative thinking, Hardox was born.





Over the years SSAB built up a competence in supplying a complete package to the users of Hardox and other high strength steels:

- Technical support
- Dedicated sales force
- Stocks
- Product development

Technical support is seen as key in terms of customer and market development and takes a number of forms:

- Workshop recommendations are key in ensuring proper use of the different steels, resulting in the best quality products from our customers
- Dedicated engineers working with customers to select the best materials and procedures, and to deal with those sometimes tricky questions. They are also at hand to guide customers through development projects whenever required.
- Customer education programmes covering a variety of topics and aimed at different market segments.
- Technical experts looking in detail at such things as material flows, wear rates from different materials, software for wear calculations et al.

A dedicated sales force, who have a high awareness of the industries they operate in, and well educated in the offering from SSAB, with a focus on the end user.

Stocks and availability is an important part of the offering, especially when operating in a market that demands quick turnaround in areas such as repair and maintenance. Hardox is available from stocks around the world.

Product development is there for pushing the limits; harder, tougher, thicker, thinner steels. New grades, improvements to existing grades, production methods, the dimension programme, are all under constant development.

There is a constant demand for harder and tougher steels.

Where does Hardox Wearparts fit in?

SSAB has a complete offering for Hardox as a flat product. The Hardox Wearparts network is made up of customers who have developed an expertise in the processing and uses of Hardox. They convert the offering from SSAB into parts, used in a variety of industries, where wear is a critical factor.

Hardox Wearparts members play a critical role in developing the markets for Hardox; new industries, applications and customers.

- Working in close proximity to their customers
- Developing expertise in different segments
- Investment in capabilities to process the highest Hardox grades
- Quick turnaround for service and reliability
- Working to increase customers' productivity
- A complete offering with complementary products.

Hardox Wearparts offer a complete service wherever wear is a factor.

What is the relationship with SSAB?

The vast majority of Hardox Wearparts members are independently owned. A few members are fully owned by SSAB and SSAB has part ownership in some.

SSAB expects members to reach and maintain high standards regards equipment, capability and approach to the market, and loyalty to the Hardox brand. Access to the network is based on these criteria. Hardox is a significant part of any member's business.

This is not a franchise arrangement, and there are no fees involved in becoming a member. It is a business to business relationship based on being mutually beneficial with regards the development of Hardox to a range of industries.

All centres have access to specific marketing information and support, and to the full range of support services that SSAB has to offer. There is a dedicated team within SSAB who work specifically with the Hardox Wearparts network, whose task involves enhancing the SSAB offer, and to aid the business development of the network.

For member interviews search Hardox Wearparts on www.youtube.com.

Is there a Hardox Wearparts near you?

The first members were appointed in 2001, with a steady growth until around 2012 to around 100 members. The number of members is now closer to 200 with many more in the pipeline.

The main growth areas are in the Americas and Asia, although some growth is also planned for Western Europe where a mature network exists.

The Hardox Wearparts network is seen as one of the most effective ways to demonstrate the benefits that Hardox can bring to the end-user, and members are able to benefit from the business that this brings.

The ambition is to cover all significant industrial and agricultural areas where wear is a factor, and where service and availability can benefit the productivity of the local industry.



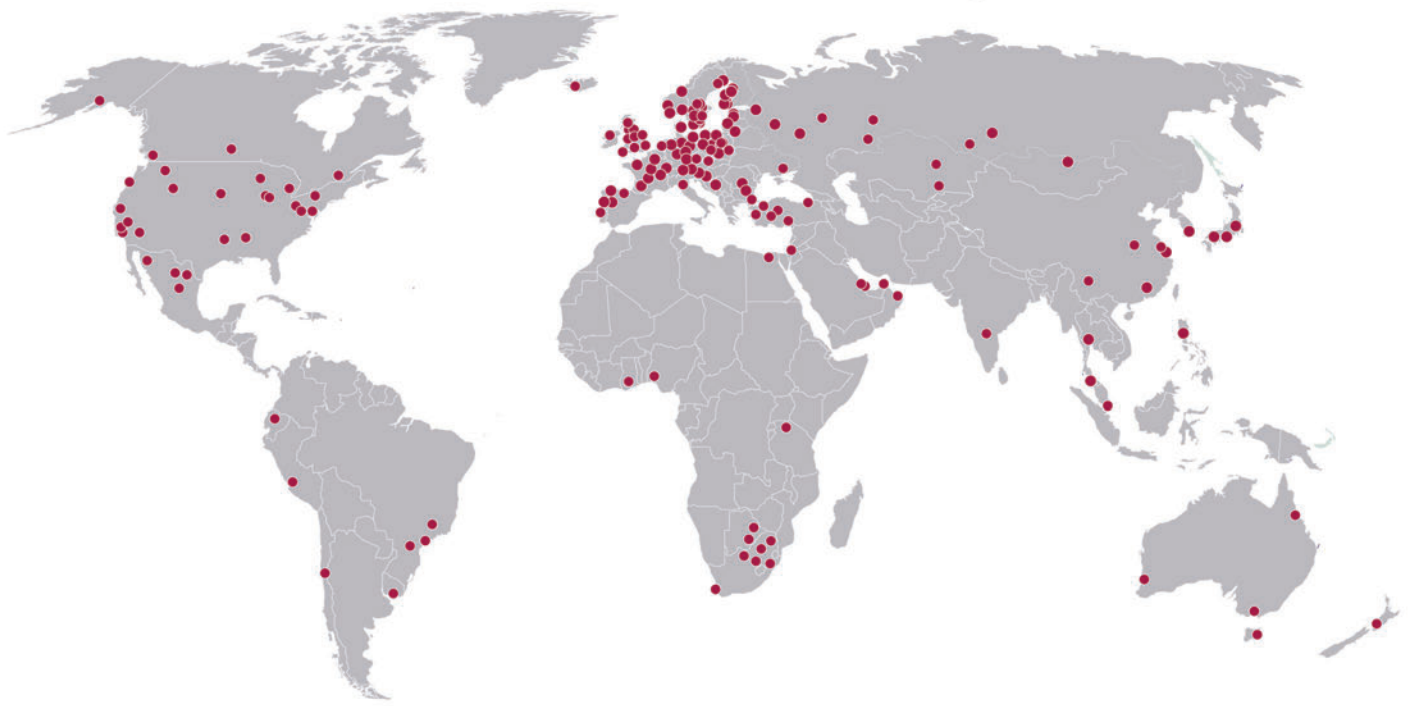
Hardox Wearparts centres worldwide.

The UK network

The UK currently has 10 members. All have a long experience in the use of Hardox and have a solid foundation on which to build for the future. All are unique, and together offer a range of services to different industries and customer groups.

Barron Ltd has specialised in the use of Hardox 600 for scallop fishing, and supplies a complete service to this niche industry. Another focus is the development of solutions for nuclear decommissioning.

Located in Appleby, Cumbria. www.barron.com



Bruce Engineering Ltd, is a family business with an extensive capability to supply high quality Hardox parts as well as on site services. In addition they produce a range of their own machines for the quarrying industry.

Located in Cookstown, Northern Ireland. www.bruce-eng.co.uk

Edwards Steel Services Ltd prides itself on market leading service with very quick turnaround of requirements. This is backed up by impressive availability of Hardox products. Their offer is complemented by other GET products.

Located in Bridgend, Wales. www.edwardssteelservices.co.uk

JJ Bullen (Plant and Equipment) Ltd offers a diverse service, meeting a range of customer requirements. In addition to offering repair and maintenance services from their well-equipped workshop, which is being extended, they also do so on-site across the UK.

Located in Ormskirk, Lancashire. www.jjbullen.co.uk

Hardox Wearparts Centre Stirling Ltd (formerly JL Steel Services) works across a wide range of industries, and the extensive workshop and prime location close to the industrial heartland of Scotland, means they are perfectly situated for servicing their customers.

Located in Stirling, Scotland.
www.hardoxwearparts.com/stirling

LH Quarry Plant Ltd is a specialist supplier to the crushing and quarrying industry. An extensive workshop with an impressive range of machining capabilities results in a fantastic offering to the market. This is backed up by a stock of crusher parts and Hardox plate for a quick service.

Located in Thornaby, Teesside. www.lhgroup.co.uk

MST Parts Group Ltd is well established in the mining and quarrying industry, and in addition to a complete Hardox offering, backed up by a well-equipped workshop, they are undercarriage and GET specialists. They offer nationwide coverage.

Located in Birtley, Tyne and Wear. www.mstpartsgroup.com

MTL Advanced Ltd is equipped to offer a full cutting, machining and fabrication service. They operate across a wide range of industries and customer groups. Hardox played an important part in the establishment of MTL, and its importance continues today.

Located in Rotherham, South Yorkshire. www.mtladv.com

Pegasus Profiles Ltd is using its full range of capabilities to further develop the use of Hardox into a range of industries including fabrication, aggregates, recycling and agriculture. Pegasus is well positioned and is involved in some ground-breaking projects for Hardox applications.

Located in Thetford, Norfolk. www.pegasusprofiles.co.uk

Steelpro Ltd. Need the thickest Hardox plate available? As well as offering parts from the full range of Hardox grades, Steelpro has positioned themselves as the prime supplier for parts made from the thickest plates. This is backed up by CNC machining and a range of other equipment.

Located in Nuneaton, Warwickshire. www.steelpro.co.uk



Want to learn more?

More information is available on www.hardoxwearparts.com. There will be a dedicated Hardox Wearparts stand at Hillhead show this year. Representatives from SSAB and the UK Hardox Wearparts network will be at hand to meet you.

There will be a display of various products from the Hardox Wearparts network. Examples of our steels will be available for inspection as well as a demonstration of the impact toughness of Hardox 450 compared to mild steel grades. There will also be a demonstration of stud welding of Hardox 600.

We look forward to welcoming you onto our stand at Hillhead. See us at stand F8.



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M2500 & AquaCycle

Modular, mobile washing plant with integrated water recycling delivers:

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- **Reduced Plant Footprint**
- **Reduced Waste Volumes**
- **Increased Health & Safety on Site**
- **90% Reduction in Water Volumes**



cdeglobal.com

Visit us at Hillhead 2016
Stand: T1





Hitachi Returns to Hillhead

When Hitachi attended the previous Hillhead Exhibition in 2014 after a decade long break, it marked the launch of a strategic move into the quarrying and mining sectors. Now with sales of over fifty machines into these sectors, Hitachi has successfully established itself as a major player and look forward to returning to the show in 2016.

Featuring this year from Hitachi's extensive range of construction, quarrying and mining equipment are the ZX870LCR-5B and ZX490LCH-6 excavators, which both deliver market leading performance, reliability and fuel economy. From the new Hitachi dash-6 range of wheel loaders the ZW310-6 will make its debut, while in the demonstration area visitors can witness the exceptional build quality and power of the Hitachi ZW370-5 wheeled loader.



Visitors will have the opportunity to meet members of Hitachi's sales team to discuss the latest innovations in our market leading products and the support packages provided by Hitachi. While representatives from Hitachi Capital will be on hand to discuss finance options that are exclusive to Hitachi customers.

With strong sales in recent years and the same again anticipated this year, Hitachi is back at Hillhead for good.



www.hub-4.com/directory/16504

Wheelwash makes a splash at Hillhead!



Since 1990, Wheelwash has consistently led the UK wheel cleaning market, providing the largest range of high performing, low maintenance products. On stand H13, we will show how our latest innovations deliver significant operational cost savings by reducing power and water consumption plus saving valuable time on site.

The all-new Rhino Ecowash Extra Clear features an improved spray configuration, ensuring more muck is removed from each wheel, tyre tread and vehicle under-chassis. The targeted, high pressure spray is generated by a reliable, inverter-powered centrifugal pump which provides many benefits including the ability to turn the pressure down when site conditions allow, thus saving power and water.

Even the most challenging site material will be easily removed from our new, cylindrical primary tank fitted with an automatically-operating sludge release valve.

The system also includes our unique Ecoclear lamella water recycling tank which is as effective at solids separation as 10 conventional settlement tanks.

Our team of international sales consultants will be on hand to discuss how we can provide effective solutions to your wheel cleaning problems, wherever that may be.

Wheelwash has been awarded the prestigious Queens Award for Export in 2016 thanks to successful projects of multiple units recently completed for blue chip companies in India and Brazil along with further installations in South Africa, Israel, Iceland, Chile and Spain to name a few.

Our unrivalled store of knowledge and experience is coupled with an unwavering focus on customer care which includes a comprehensive after sales service and providing value-for-money maintenance contracts. We can provide standard and bespoke equipment, on time and at a fair price.

Don't want to buy? Wheelwash also has the largest rental fleet comprising dry ramps, drive through baths and high pressure spray systems with recycling for your short term.

More info www.wheelwash.com



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We're off to Hillhead again!

Marubeni-Komatsu is excited to announce that it is once again exhibiting at Hillhead 2016. The biennial event, which is held at the Hillhead Quarry in Buxton, Derbyshire on June 28th - 30th June is the UK's leading trade show for quarry, construction and recycling. With over 450 exhibitors showcasing their products and services to in excess of 17,000 visitors, Hillhead 2016 promises to be an event not be missed.

Once again, Marubeni-Komatsu will be showcasing an exciting mixture of static display and demonstration machines on stand Y1.

Machines on display:



HB365LC-3

KOMATSU
With fuel savings of up to 20%, our new Hybrid is bigger and better than its ever been.



HM300-5

KOMATSU
This 30.9 tonne capacity ADT is powered by the new Stage 4 Komatsu engine.



PC138US-11

KOMATSU
Designed with an ultra-short tail swing; meet the challenges of work in confined areas.



PC490LCD-11

KOMATSU
Leveraging Komatsu engine technology to provide productive and efficient output.



PC210LCi-10

KOMATSU
First intelligent Machine Control excavator with integrated machine control.



WA320-7

KOMATSU
Perfect mix of power, comfort and reliability - fitted with powerful Stage IIIB compliant engine.



WA600-8

KOMATSU
This huge machine offers improved operating comfort, productivity and fuel savings.



Unveiled at Bauma earlier this year our new Hybrid machine is the Komatsu HB365LC-3. We're incredibly excited and lucky to have this on static display having had a busy few months touring Europe. This high technology and environmentally sustainable 36 tonnes hydraulic hybrid excavator will be one of the highlights of Hillhead 2016. The new Hybrid was designed to provide 20% fuel savings to customers and KOMTRAX™ data from HB365LC-3 machines working in Japan since February 2016 show that target has been reached. The new HB365LC-3 hybrid excavator features an EU Stage IV engine and ultra-low noise levels, and it further reinforces Komatsu's strong commitment towards a substantial reduction of the environmental impact of earthmoving machines.



Our second flagship machine this year is the brand new Komatsu WA600-8, which is a real crowd pleaser. This large wheel loader offers an outstanding combination of stability, breakout power and tractive effort. Built on the recognised benefits of its predecessor, it's a versatile

performer with an EU Stage IV engine that uses up to 13 % less fuel. Available machine attachments extend the machine's versatility to load and carry or quarry applications. The WA600-8 has an enhanced lockup torque converter function, a new auto-digging mode and a new E-Light work mode and uses SmartLoader logic. The Komatsu redesigned digging bucket improves penetration and is easier to fill. These combined enhancements greatly increase operating comfort, boost the new wheel loader's productivity and reduces fuel consumption.

Visit the Marubeni-Komatsu stand and join us for refreshments at our Barista coffee bar from Café Azzurro. We'll also fire up the BBQ so make sure you come along for a bite to eat too. We've got some excellent goodies to give away this year; get your badge scanned to pick up your giveaway bag. Inside the stand we will also have our shop, which will be selling some exciting Komatsu branded clothing and items and of course a range of collectable Komatsu scale models.

Be sure to keep an eye out for our competition too – we'll have some exciting prizes up for grabs.

We look forward to seeing you there!

 www.hub-4.com/directory/537



VISIT US AT STAND H6 TO FIND OUT MORE

MJ400R

THE NEXT BIG THING

The Game Changing Modular Recycling
Jaw Plant will be unveiled at Hillhead 2016,
from 28–30 June 2016.

www.terexmps.com

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Hillhead tradition continues . . .



SN Engineering will once again be exhibiting at the UK's premier trade expo., Hillhead 2016, the bi-annual exhibition for anyone & everyone involved in the construction ; quarrying & recycling industries. With a 20% increase in exhibition area, it is destined to be the biggest show to date.

Servicing global OEM & User markets in the Concrete; Asphalt & Mineral industries for over 20 years. SN Engineering specialise in the design, manufacture & supply of dry bulk materials handling equipment covering such areas as Dust Filtration; Bulk Storage Silos & Stores; Mechanical & Pneumatic Conveying; Dust Free Loading Systems; Mixing & Blending and much more . . .

Hillhead 2016 will see working examples of our Series 8000 Outloader® – tanker loading bellows with integral filter, alongside working examples from SNE's family of integrated Silo Protection Systems (SPS's) for visitor interaction & working samples from our extensive range of level detection devices will also be on show, including a unit from our semi-continuous level range. These are joined this year with

examples taken from SNE's extensive range of screw conveyors with examples of both shafted & shaftless screws alongside a sample from our pneumatic conveyor blow pots. Our Dust filtration sector will be well represented this year, the ever popular MaxAir® 24 silo venting dust filter, an OEM's favourite, alongside a sample of our own heavy duty – fan assisted 93m² unit debuting the all new ; rapid & tool free cell exchange system 1st launched earlier this year & featured in Hub4, January edition. Both are further complimented with samples from the EcoSpares® range of dust filter replacements. Other exhibits will cover samples from our butterfly ; slide & rotary valve family ; low friction / high impact resistant lining materials such as Matrox ; Quicksilver & Tivar to name but a few.

Also, within the marquee, we'll have various videos from CapEx projects we've been involved with over last 12 months, including a timelapse & LIVE video link showing the erection of one of our 12.5mØ 3000+Te silos – standing @ ~36m tall makes for quite an eye opening viewing. Why not pop in, relax with a coffee & watch, all welcome new & old – book it in your planner **Stand E21.**

 www.hub-4.com/directory/16525

Achieve your lowest sustained cost with
Metso's new Life Cycle Services for aggregates.
Because every stone counts.

That's how we make the big difference, the Metso Way.

Investing in new equipment can bring great rewards. It also requires careful consideration of upfront costs and total cost of ownership. How can you achieve the highest resource efficiency with your new equipment while still reducing risks? Metso, with our partners, can help you reach your goals with our new offering.

Metso offers Life Cycle Services (LCS) programs for aggregate producers that target three areas: maintenance, supply chain management and process improvement initiatives. Our customizable LCS programs are built to help you achieve optimal production quality and the lowest sustainable cost structure for your operations, while ensuring that safety is never compromised. Choosing LCS means choosing global expertise, certified technicians and high quality genuine wear and spare parts. Backed by commercial models that make it easier for you to invest in new equipment, LCS programs help you to invest in your future – today.

When quality aggregates is your priority, quality service is our guarantee to you. Find out more at metso.com/LifeCycleServices

#TheMetsoWay



Metso Minerals (UK) Ltd, tel. +44 1788 532100
email: minerals.info.uk@metso.com





Lap Electrical at Hillhead 16



LAP Electrical is an established name in the development and production of automotive electro mechanical products with 25 years' experience within the OEM and aftermarket sectors in the construction, agricultural and road going vehicles markets.

They are a privately owned company employing 75 people at our 3000m2 site in Birmingham, UK which combines production, design and management functions. LAP have developed an efficient and flexible manufacturing and distribution operation, making them ideally placed to respond to production demands and new design opportunities.

High quality standards, manufacturing flexibility and customer care values are key to our continuing successful growth.

Accreditation to the TS16949 quality management standard is the corner stone of LAP's position as a key supplier to major manufacturers in the automotive world such as Ford and Jaguar Land Rover.

At the heart of the company is engineering with new product design and continuous development of existing ranges being central to their ability to provide class leading products.

The LAP product portfolio focusses on Emergency warning lighting such as LED light bars and beacons, reversing safety including CCTV and reverse alarms , Commercial vehicle lighting including rear light clusters and vehicle specific products such as Fuel senders and PCV valves which are designed in conjunction with O.E. customers in the automotive and construction markets around the world.

With an extensive distributor network across the UK that stock a wide selection of the company's products, backed up by a dedicated head office customer service team that are able to assist you with any enquiries, LAP is truly a Great British company.



www.hub-4.com/directory/17283

Hillhead 2016 Fast Approaching

Master Magnets will be demonstrating a range of equipment at their 9th consecutive Hillhead show this year on stand C9.

The world's largest working quarry trade exhibition saw visitor numbers exceed 15,000 in the 2014 show and with over 450 exhibitors due to take part this year, this is sure to be achieved again.



A range of Magnetic Separation and Industrial Metal Detection solutions will be displayed on the Master Magnets stand this year, which will include a self-cleaning Overband Magnet and a Permanent Suspension Magnet. Overband Separators are very cost effective and reliable solutions that are commonly used for the continuous removal of ferrous contaminants from various product streams, whereas Suspension Magnets are used to remove less frequent amounts of ferrous contamination.

A 'Tunnel-Type' TN77 Metal Detector unit and a QTA Non-Ferrous Detector will also be on show this year. These units are commonly used in quarrying and recycling applications for the detection of ferrous or non-ferrous materials. This not only ensures a cleaner and more valuable end product but also provides essential protection to expensive downstream processing machinery.

The Master Magnets sales team are looking forward to meeting many of the visitors that will be attending what is sure to be another successful show.



www.hub-4.com/directory/541

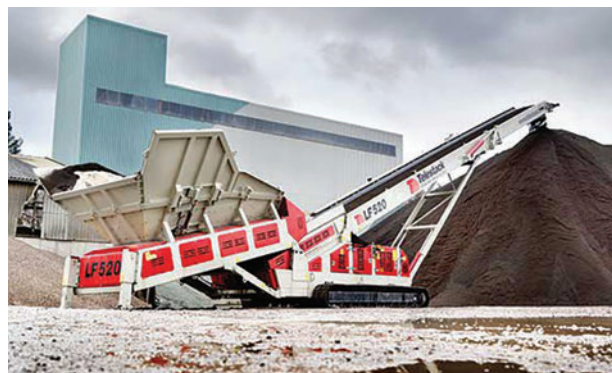


Telestack bringing innovation to Hillhead

On the heels of a very successful Bauma 2016, Telestack are anticipating a buoyant and exciting Hillhead as they plan to showcase their most impressive, innovative and comprehensive range of equipment to date! Innovation and new product development have been the foundation of their success over the years. Following on from face to face communication with their experienced dealer network and customers over the last 12-18 months, Telestack plan a number of debutants at Hillhead from across their comprehensive range. The Telestack stand promises something for everyone and is looking forward to being one of the key highlights of Hillhead 2016!

Telestack, specialists in the complete design, manufacture, installation and commissioning of mobile, bulk material handling systems, have a global proven record in a range of applications including mining and quarrying, stockyard management, ports & inland terminals, power stations, rail yards, steel mills, cement kilns and many other bulk material handling industries. Telestack have matured into two clear divisions - Telestack Aggregates and Mining and Telestack Ports and Inland Terminals and offer a range of solutions and reference sites along the logistics chain from pit, to port to plant.

Malachy Gribben, Commercial Director explains "Telestack are one of the primary stalwarts of bulk material handling equipment in the aggregate and mining sectors. We have decades of experience gathered in a range of applications both in standalone applications or working as part of a crusher/screen system. Our equipment is known for its reliability, its flexibility and no-nonsense performance. We are



proud of our core tracked conveyor and radial telescopic range that Contractors and Operators continue to ask for by name. These products are the foundation on which Telestack as a company has grown extensively, not only in terms of sales but also in terms of new markets, new industries and the associated product range and I believe our product spread at Hillhead reflects our company and its growth accurately."

Telestack will use Hillhead to globally launch a number of new and innovative models. First up is the AggStack® range – a series of value added mobile conveying systems designed to meet the needs of the quarry, aggregate, sand and gravel markets. The comprehensive AggStack® series combines their range of entry level radial telescopic stackers, radial fixed length stacking conveyors, truck unloaders, hopper feeders and link conveyors with an emphasis on functionality, strength, performance and price point. On the Hillhead stand is the AggStack® 36 x 140 Low Tail Radial Telescopic Conveyor. The original prototypes have a proven record of performance and reliability operating in a range of aggregate applications and the order book is already in double figures with several already shipped.

Another exciting development for the Telestack Aggregates and Mining division is the enhancement to the Telestack hopper feeder





range. On the Telestack stand will be the LF520 and the brand new LF520 Radial. The Low Feeder range allows the operator to directly discharge from wheel loaders/ grab cranes and excavators at a significantly lower feed in height compared to standard hopper feeders, thus avoiding the need to build a ramp. The unique design of the hopper allows for rear feeding which can be beneficial when operating in constrained areas. Telestack design and manufacture a range of low feeders to suit various applications and is available in a range of designs and hopper capacities depending on feeding equipment and production rates on site. The LF520 Radial is being launched at Hillhead and is a direct result of our LF customers asking for additional features to improve performance. Telestack will also display the HF1021R from the Revolution series - the hopper feeder range with centre mounted slew bearing that enables 360° rotation of the hopper and boom. Ideal for barge loading and unloading, rail loading and unloading and stockpiling, the parallel travel feature enables the operator to manoeuvre the unit parallel to the vessel removing the need to reposition the unit, thus enhancing loading rates and efficiency! The Revolution option is available on all HF/LF models and the positive feedback from customers already using the Revolution has exceeded expectations.

On display at Hillhead will also be the Titan S450-6 – a static bulk reception feeder used primarily to handle aggregate, cement, biomass and other free flowing materials. Over the years, Telestack have supplied a range of static, wheeled and tracked bulk reception units since their first bulk reception unit installation in 2007. Almost a decade has passed and with it tens of thousands of operating hours and millions of tonnes of material. The Telestack bulk reception unit range has continued to evolve into the new generation called the Titan range.

In addition to two of Telestack's core tracked conveyors (the TC420X and TC421R); the Telestack stand will also display a TCL431 Tracked Conveyor. With a heavy-duty lattice design, the Telestack TCL range is designed to maximize stockpile volumes and has the ability to increase stockpile capacity by over 82%. The radial 31m version can achieve capacities of up to 20,000 tonne when compared to the traditional 24m boom lengths. The Telestack tracked conveyor range has a proven record of performance and reliability, operating in all types of applications and climates around the world in stockpiling, recirculating, linking, truck loading, shiploading and rail loading applications.



Recently appointed Marketing Manager Mairead McCrory explains "this is a pivotal show for Telestack – we have a comprehensive display of equipment that demonstrates the breadth and depth of our range. Telestack are an exciting company who truly understand their markets and Hillhead is our chance to shine. It's also a great opportunity to catch up with our long-standing and loyal customers who travel far and wide to Hillhead as well as those who are in the process of including Telestack equipment in their fleet! It is also an opportunity to launch some exciting finance programs to our Telestack dealers and customers."



Telestack has always been renowned throughout the aggregates industry for the quality of its machines and the company was awarded UKAS accreditation covering key global standards; ISO 14001 (Environmental Management), OHSAS 18001 (Health & Safety Management). This is in addition to the Northern Ireland headquartered firm's existing accreditation to ISO 9001 (Quality Management). The Telestack Integrated Management System (IMS) ensures that anything which has an effect on overall business performance is monitored, actioned and improved.

 www.hub-4.com/directory/814



Telestack extends a warm welcome to those attending Hillhead. Visit stand E11 to see the Telestack units first-hand and to meet members of the Telestack sales and customer support teams. For more information on Telestack please go to www.telestack.com.



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Volvo's biggest articulated hauler confirmed for Hillhead 2016

Always available to work, the bigger, more durable and superior, 60 ton class A60H articulated hauler from Volvo Construction Equipment provides continuous production and superb reliability thanks to its robust design, easy service access and outstanding Volvo dealer network.

The new, 55 tonne (60 ton) capacity A60H being shown for the first time in Great Britain at Hillhead 2016 is Volvo Construction Equipment's largest articulated hauler to date. It has been designed for heavy hauling in severe off-road operations, including quarries, opencast mines and large earth-moving operations, providing a long service life, quality, reliability and durability – in fact all the hallmarks associated with Volvo articulated haulers.

Volvo CE has come a long way from its original 10 tonne articulated hauler in 1966 – 'Gravel Charlie'. Fifty years and 50 tonnes later, Volvo is still the world's leading manufacturer of articulated haulers. It invented the concept and has been developing these machines for over half a century. And Volvo CE has the unique opportunity to celebrate this achievement presenting both the old and new on the Volvo stand at this year's Hillhead exhibition.

With an industry leading 55 tonne (60 ton) payload, the A60H brings a new dimension to reducing the cost per tonne of material moved using tried and tested frame and powertrain designs with the emphasis on fuel efficiency. The A60H is powered by a 16 litre Volvo engine, delivering 495 kW and 3200Nm of torque, and has a maximum speed of 54.9kph. It shares the same features and benefits in terms of design and overall layout as its smaller brothers in the Volvo articulated hauler range and sports a massive 55 tonnes and 34 m³ body capacity.

With the A60H, valuable data is on hand to improve onsite efficiency and save costs. With intelligent systems from Volvo, such as MATRIS™, CareTrack™ and the On Board Weighing system, customers can optimize production and minimize operational costs. Volvo uses the latest technology to monitor machine operation and status, advising on the best ways to increase profitability. The On Board Weighing System guarantees the optimal load every cycle. This maximizes production, boosts fuel efficiency and reduces machine wear in all site conditions and operations. And a huge array of

Customer Support Agreements offer preventive maintenance, total repairs and a number of uptime services, helping keep control of maintenance costs.

Key specifications:

A60H Volvo	Engine specs	
Max power at	r/s	30
SAEJ1995 Gross	kW	495
Max torque at	r/s	17,5
ISO 9246, SAEJ1349 Net	Nm	3,200
Displacement	l	16.1
Load capacity	t	55.0
Body volume	m ³	34.0
Operating weight	t	43.75

The ground breaking A60H features the latest innovations from Volvo. With matched drivetrain, automatic drive combinations, including 100% differential locks, all terrain bogie, hydro mechanical steering and active suspension, this machine is unbeatable. Fitted with an active hydraulic front suspension for higher hauling speeds in tough conditions, the A60H optimizes operator comfort and stability during travel, allowing more material to be moved in a shorter time for unmatched productivity. The A60H's dump support system, Hill Assist and load and dump brake, all help the operator to stay in control at all times, for extra productivity and safety.

Volvo Construction Equipment markets wheeled loaders, articulated haulers, hydraulic excavators, Volvo utility equipment and Volvo road equipment products in Great Britain. There are eight strategically placed customer support centres and a network of utility equipment dealers to ensure high quality customer support is maintained throughout the country.

 www.hub-4.com/directory/876

LOADED TO LIFT YOUR PRODUCTIVITY



The L250H wheel loader from Volvo Construction Equipment delivers high breakout force, fast cycle times and an 18% reduction in fuel consumption through Volvo's unique OptiShift technology. Equipped with the power to handle digging and face loading as well as the speed and versatility needed for loading in the yard and stockpiling, this machine incorporates Volvo's proven Z-bar linkage, intelligent load-sensing hydraulics and an optimally designed bucket for maximum productivity. Expect more and get more from the L250H. The Volvo L250H wheel loader: making light work of heavy duties.

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Volvo Group UK Ltd
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Volvo Construction Equipment





BG Europa (UK) Ltd is a family owned business providing customers with quality equipment offering low operational costs and long life expectancy at competitive prices. The importance placed on in house engineering expertise allows BGE to provide equipment to exactly match customers' requirements. Whether our own range of asphalt and aggregate processing equipment or the Astec Inc. and FMA Ullrich GmbH & Co. KG product ranges.



At Hillhead we will be exhibiting the award-winning 1/8 scale Astec models which are well-known at international tradeshow and have been continuously updated with remarkable attention to detail to reflect the latest innovations and best practices in asphalt mix production.

On display will be a cut-away model of ASTEC's flagship Double Barrel® drum dryer/mixer, giving Hillhead attendees a

chance to see this innovative technology from the inside out. Also on display will be ASTEC's new Double Barrel® XHR which offers customers the opportunity to increase RAP addition from the standard Double Barrel® capacity of up to 50% inclusion to 70% inclusion.

Visitors to our Hillhead stand will be able to review and discuss various options for RAP addition on a range of batching and continuous process. As well as turnkey options for aggregate drying, dust control, aggregate mixing and hot asphalt storage.



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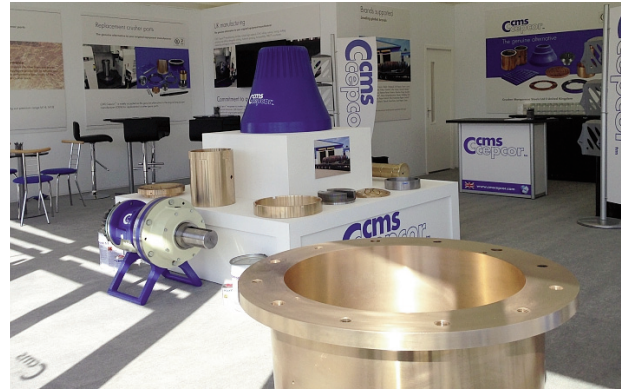
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Visit CMS Cepercor on stand E25 at Hillhead 16

CMS Cepercor will again exhibit a wide range of precision machined replacement crusher spare parts, premium manganese crusher liners and range of crusher services at the upcoming Hillhead 2016 Exhibition running 28th - 30th June in Buxton, Derbyshire, United Kingdom.



We provide technical support, crusher service, critical inspections and crusher repairs to original factory specifications, as well as also offering genuine Fuller-Traylor crusher spare parts.

Korrobond 65 Crusher Backing - CMS Cepercor™ are authorised UK and export distributors for Korrobond crusher backing and release agent products, our extensive stock holding in the United Kingdom allows us to despatch even the largest order promptly worldwide.

Visit CMS Cepercor at Stand E25 - Further information on the show can be found at www.hillhead.com

In addition to our core products and services we will be promoting the following:

UK manufacturing - Our approved and certified UK manufacturing facilities include CNC, milling, turning, boring, slotting, grinding, drilling, welding, FARO co-ordinate measuring and Spectro material testing.

OEM crushing equipment - The current range of Goodwin Barsby™ Series 5 jaw crushers, granulators and vibrating grizzly feeders are UK manufactured and have evolved by improving on the tried and tested design without compromising build quality for cost savings.

FLSmidth™ authorised service facility - CMS Cepercor™ is an authorised FLSmidth™ service facility covering all Fuller-Traylor gyratory crushers operated in the local market.



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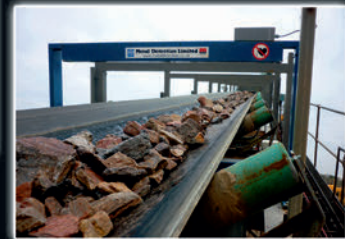
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CDE displays latest M-Series developments at Hillhead

Materials washing specialist CDE Global returns to Hillhead where they will be launching the latest developments to their modular M-Series washing plant range.

Since its launch at the Bauma exhibition in Munich in 2010 the M2500 has achieved global recognition thanks to its compact footprint, efficient transfer of materials from one processing phase to another and the use of clean, electric power. The range has since been expanded and their appearance at Hillhead CDE will present some of these latest developments as they increase the range of applications for the M-Series. Currently the M2500 has been installed in plants in the quarrying, mining and C&D waste recycling sectors worldwide.



The model on display will be the M2500 ESX which has been developed to produce up to 5 washed and classified products. Other developments include a refined chassis design to allow for rapid installation, easy transportation and minimal civils requirements. Operator efficiency has also been taken into consideration with 900mm wide walkways which allow for safe and easy access to all parts of the plant and lightweight GRP guards which are easy for one person to remove and replace for efficient maintenance and inspection.

Matt Bunting, Director of Business Development UK & Ireland, comments, "We are proud to be displaying the M2500 ESX which is the output of a three year R&D cycle. The M2500 is one of our core products which is very well established in the



UK & Ireland with applications processing sand & gravel and recycling construction & demolition waste."

This model also incorporates the patented Infinity screening technology on both the P-Line inclined sizing screen and D-Line dewatering screen. These innovative screens include patented Trilogy side wall construction which eliminates the need for welds ensuring maximum equipment life and also removes unnecessary weight for reduced power consumption. Welds are also eliminated from the U-span cross members which are built for superior abrasion resistance and fixed to the screen side walls using huck bolts. The range of 14 elliptical, circular and linear motion Infinity screens are all galvanised as standard, which also ensures the longest lifespan possible.

The P-Line screen on the M2500 uses the CDE VibroCentric drive system which removes unnecessary weight delivering a higher power to weight ratio. The D-Line dewatering screen utilises the innovative VibroSync motor bridge which ensures an even distribution of power across the full screening area for superior performance.

Speaking about the CDE stand Matt continues, "We have a long record of exhibiting at Hillhead with the UK & Ireland being our home market it serves as an excellent platform to share our latest developments and innovations with a large audience. Over the last year we have seen the recovery of the construction sector which is predicted to continue to grow for at least the next five years giving us confidence in the UK & Ireland as a strong growth market going forward."

The CDE stand is located in the main quarry area, stand number T1. Matt and the UK & Ireland team shall be available throughout the three day event to provide further information on the latest CDE range and look forward to welcoming all new and existing customers during the event.

For further information visit cdegloball.com

 www.hub-4.com/directory/163



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QMS have chosen the Hillhead 2016 exhibition to launch their new Jaw crusher, alongside their range of modular crushing and screening units.

Making its world debut, the new J-1275 Jaw crusher utilises a non-welded frame design. Constructed from robust steel side plates joined to high-quality cast steel frames through precision machined bosses, secured with high tensile bolts. The absence of weld seams ensures excellent durability against shock loads.

This proven design offers owners the highest possible fatigue strength, combined with high-quality cast steel components and premium spherical roller bearings, ensuring great performance and reliability. The hydraulic toggle and wedge mechanism means that adjustments to the CSS can be made at the touch of a button.

The QMS jaw crusher is available as a base unit or as part of QMS's range of modular plant. The CE compliant modular unit consists of a J-1275 Jaw crusher, 10m³ feed hopper, vibrating grizzly feeder with under screen and discharge conveyor.

The efficient, all electric drive system is pre wired with simple user friendly controls and galvanised walkways, stairs and handrails complete the specification. The semi mobile modular units are designed for rapid setup and can be quickly assembled using simple tools.

QMS will set up a modular crushing plant in the rock processing demonstration area consisting of a feeder, B3 cone crusher and 1.83x4.00 2 deck screen. The plug and play design means all elements are fully sequenced and interlocked. Operated from a single control point the plant offers the technical benefits of a fixed static plant but with the rapid set up and versatility of a mobile plant.



Designed to break down into container sized blocks the plants can be shipped anywhere in the world with ease. All QMS processing plant is manufactured in purpose built UK manufacturing facilities.

Visit QMS on Stand J2 for further information

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Screening Consultancy and Supplies (SCS) has been now been supporting the industry for 25 years, and has become one of the most well respected companies within its field with its devotion to customers and unparalleled service.

As one of the leading suppliers of synthetic screen media in the UK, SCS can design, manufacture and supply tailor made full installations or just replacement spares for existing installations.

SCS in early 2015 made the move to larger premises in Rugby to better serve its customers. The new building in Rugby is the hub of the SCS operations along with its main production and stocking facility for all its rubber products lines and scrapers. This new space allows SCS to hold larger stocks to improve the speed to market of its products and allows the ability to bring larger equipment into its factory to be worked on.

So at Hillhead 2016 what will SCS be displaying, it market leading synthetic screen media and lining solutions. On display will be three of the most widespread polyurethane modular systems, the standard SCS pin and wedge system which is simple, versatile and low maintenance, the 85 system with its knock on modules is very popular for its flat deck design and lastly Polystep which is the oldest systems on the market, which was prevalent in the market in and around the late 90's and early 00's.

SCS also has on display a variety of rubber screen media this includes one of its single largest product lines the rubber tensionable screen cloth which is still one of the most versatile types of screen media as it can be easily retro fitted on wire decks with no need for alterations and is still arguably the cheapest cost per ton screening media on the market. There will also be Extraflex tensionable screen cloths that are used to solve issues with dry screening such as pegging and blinding hence their increased popularity year on year. Lastly there will be

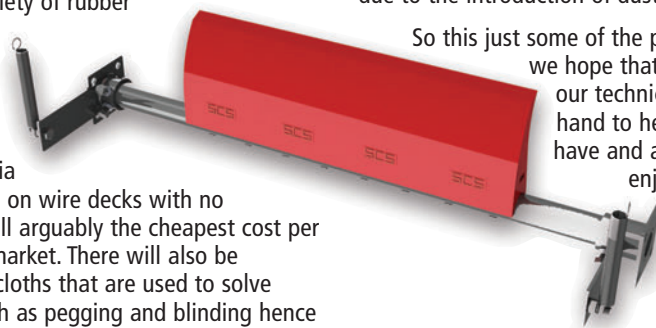


rubber covered perforated plates that are bespoke designed and manufactured to cope with the most arduous of applications.

The SCS primary polyurethane head scraper was original designed by the founder of SCS over 20 years ago to have a simplistic design, be low cost, easily installed and maintained. Although there are now many copies on the market this scraper it is still one of the most popular scrapers in the UK and Ireland testament to its longevity! Along with this SCS will also show its tungsten carbide tipped secondary scraper again favoured for its simplicity, easy installation and maintenance.

Also on display will be various forms of SCS lining solutions. Primarily on display will be steel backed rubber and polyurethane wear liners but also pure rubber liners will be demonstrated to show their versatility. On the stand will be information on polyethylene linings (low friction liner) which are used in chutes and hoppers where materials have a tendency to stick or bridge, these have increased in usefulness due to the introduction of dust into more concrete products.

So this just some of the products we have on display so we hope that you come and see us and all our technical based sales staff will be on hand to help with any enquires you may have and at the same time we hope you enjoy some homemade food and drink with us.



www.hub-4.com/directory/763



Land restoration that doesn't cost the earth

Paul Whyatt, 4R Group's Land Restoration Manager, explains how restoring post-industrial sites such as quarries and colliery spoil tips can enhance the landscape and improve the



Langton before



Langton after

environment whilst barely making a dent in the landowner's bank balance.

Up and down the UK are quarries, collieries and landfill sites nearing or at the end of their useful life. The landowners and operators are left with the responsibility of turning what many communities believe are scars on the landscape into land they can be proud of.

With 4R's help these sites have been transformed, using recycled materials from waste management plants and sewage treatment plants across the UK.

What's the deal?

4R Group provides a complete solution for waste management companies, taking away the compost their facilities create and using this to restore brownfield sites, the legacy of our industrial and mining heritage.

The material can be used to enrich or create soil, making once barren land productive and helping trees and plants to grow, which provide a much improved environment for people living and working in the area.

It's a win-win situation. Landowners benefit from having their sites restored for future use and the waste management companies are pleased with the outlet for the materials produced at their facilities. In Nottinghamshire, what was once Langton Colliery was a hugely visible black smear at the side of the M1, but after 4R restored the site it's now a lush green area of rolling fields for amenity use.

And quite different from being a drain on the bank balance, it's possible for landowners to receive a payment for having their land restored, depending on the type of land and potential future use.

How do 4R help?

The team of expert soil scientists and project managers at 4R can liaise with the planning authorities to understand the proposals for the site and put together a plan for restoration which meets with approval. The team also liaises with other regulatory bodies such as the Environment Agency to ensure the project has the relevant permissions.

Using a team of specialists, trusted sub-contractors and network of connections, 4R maintains a pipeline of material suitable for enriching and restoring all kinds of sites, meaning the team can move swiftly to get work underway.

The compost is used on sites such as bare colliery spoil tips, old landfill sites, quarries and land used for energy crops, usually mixing it with spoil or the poor quality soil already at the destination site and adjusting the ratios depending on the type of restoration required.

What are the benefits?

All parties in the process benefit. From landowners fulfilling their legal obligations, reducing their environmental liabilities and potentially being paid to restore their sites, to the waste management companies which are assured of a safe, secure and dependable route to deal with organic materials and are pleased their materials are used to close the recycling loop.

If you're interested in receiving a payment to restore your land, or need an outlet for your recycled waste, visit stand PA11 at Hillhead 2016 to talk to us about the 4R approach to land restoration.

4R Group is a market leader in organics recycling with long-term contracts with various waste management companies across the UK. It restores land across the country, predominantly with organics from waste treatment plants which can't go to agricultural land due to regulations.



Cost-effective crushing with electrically-driven Lokotrack plants



Supervisor Janne Kangas, in charge of crushing operations, is especially pleased with the good fuel economy of the new Lokotrack plants.

SEINÄJOEN KTK, FINLAND

In 2014 the Finnish transport company Seinäjoen KTK made a major decision to expand its business to crushing and screening. The company has positive experiences of the two-stage diesel-electric Metso crushing and screening chain that was taken into use in March 2015. To date, KTK has been cost-effectively crushing and screening more than 450,000 metric tons of aggregate with the new Lokotrack plants.



Seinäjoen KTK has reached a maximum hourly volume of 300 tons using Metso's new diesel-electric driven two-stage plant.

KTK serves the region of South Ostrobothnia through a member network, which has around 70 vehicle combinations suitable for construction needs at its disposal. The company has a staff of about 10 and works closely with the affiliate company Kauhajoen KTK.

"Earlier we purchased all the aggregate we needed from external sources. Branching out to aggregate production is a way to guarantee more work for our partners. At the same time, it further supports our business, and allows us to increase our market share," says Seinäjoen KTK's Janne Kangas, listing the reasons for the decision. Kangas is in charge of crushing operations.

METSO - FAMILIAR AND COST-EFFECTIVE

Kangas worked with Metso's track-mounted Lokotrack plants in his previous job at Lemminkäinen, a major Finnish infrastructure construction and building company.

"Naturally we closely screened different suppliers before making the decision, but Metso's offering, including the equipment and maintenance, came out on top. We were familiar with the equipment concept, the price was right and the overall package was the most cost-effective for us," Kangas explains.

KTK targets an annual production of 600,000 tons with the Lokotrack® LT120E™ jaw crushing plant and LT330D™ crushing and screening plant, which Metso's Tampere unit

delivered. Both plants are diesel-electric driven, which means that a diesel engine

drives the generator, and in turn, the crushers are electrically driven instead of the conventional hydraulic drive. When there is an external power source available, power for the Lokotrack plants can be supplied from the electricity network.

The two-stage Lokotrack train is used in the Seinäjoki region at around six crushing sites annually, which translates into a typical crushing contract of 10,000 to 100,000 tons. Of the total crushed volume, 60–70% is used by KTK itself, while the rest goes to aggregates clients.



The centrifugal conveyor patented by Metso considerably reduces the length of the new LT330D.

EXCELLENT FUEL ECONOMY Fuel costs are a major expense in crushing contracting. Therefore, low consumption is essential.

"In this respect, our experiences with Metso's new equipment are excellent. So far we have managed to remain below the consumption estimates that we used when making the investment decision. The quality of the end products has also been high,"

Kangas says. Seinäjoen KTK has reached an average consumption of 22 liters per hour with the LT120E jaw crushing plant and 38 liters with the LT330D. Consumption varies, depending on the stone material to be crushed.

The new IC process control system connects both plants, enabling the upstream crusher to slow down when the downstream crusher fills up. For the crusher operators, the IC system has been familiar and easy to use.

HOURLY CAPACITY OF MORE THAN 300 TONS

KTK's new crushing chain is a familiar sight at Lemminkäinen's Routakallio quarry in Seinäjoki, where it is used in the production of 8–16 mm (1/3–2/3 inch) concrete grades, in addition to regular grades.

The two-stage plant has reached a capacity of some 200 tons per hour. When producing 0–63 mm grades, the capacity increases to more than 300 tons.

According to Kangas, the wear parts of the new Lokotrack plants have a longer life than earlier models. The C120™ jaw still has the original wear parts after 100,000 tons of crushed material. The wear parts of the downstream GP330™ cone crusher were replaced for the first time after 120,000 metric tons.

"The new two-stage train is also cost-efficient to transport, as the number of loads is reduced. The Lokotrack plants can be transported with two trucks; only the side conveyors of the LT330D need to be removed," Kangas points out.



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RUD's tyre protection chains use case hardened alloy chains linked in patented designs to provide a high level of tyre protection and traction qualities. The chains are typically used across fire and hot slag conditions, which can be very dangerous and lead to loss of equipment through burnt tyres.

RUD tyre protection chains offer three wear levels to provide a greater wear resistance on hot and burning surfaces. Sharp edges on the outer surface of the chain and multiple link designs help increase traction to suit a wide range of aggressive and low traction surfaces. The designs and benefits vary to each project and specific requirements

One of RUD's latest innovation Sideflex: provides a cost



effective solution to the problem of sidewall damage to expensive and valuable dumptruck tyres, for construction and mining equipment in particular earthmoving machines.

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Springfield Farm Quarry benefit from a replacement Wileman Scrubber Barrel

Wileman Engineers Ltd have recently supplied and installed a refurbished Wileman Pnu Drive Scrubber barrel to ensure production at the Springfield Farm Quarry.

Located at Hotspur, near Beaconsfield, Buckinghamshire, Springfield Farm Quarry is a family owned and operated mineral operation. Operational since 1982 the quarry has extensive reserves of sand and gravel and under the current licence is allowed to process a quarter of a million tonnes/annum.

Operating an on-site wash plant, all material is processed through an 'aged' scrubber with anything above 20mm being crushed further down the process line. Nearing the end of its life the production team were faced with the fact that to maintain this machine would be very expensive as no parts were available and manufacturing them would be very costly. With this in mind the production team decided to replace this scrubber with a machine that was more efficient and less costly to maintain.

Brian Stevens – Quarry Manager, commented, "The old scrubber ran on iron wheels which were no longer available and far too expensive to have made. So we researched the market and found Wileman Engineers who came to site and provided us with a workable solution at the right cost."



After a subsequent site visit and a quotation Wileman Engineers were awarded the project and subsequently supplied a refurbished 2m diameter x 4m long Wileman Pnu Drive Scrubber.

The new machine came complete with a modified mainframe to suit the existing structure and a refurbished Hansen gearbox and a 75Kw 4 pole motor. New tubeless Michelin support tyres on second hand rims, second hand drive and idling shafts and new spherical roller bearing internals fitted to second hand bearing housings completed the mainframe assembly.

The refurbished barrel was shot blasted and repainted and included second hand rubber liners which were already fitted. A new fully rubber lined feed end plate and a discharge end plate and cylinder were bolted to the barrel shell to complete the barrel assembly.

The perfect solution:

Matthew Joyce-Director of Wileman Engineers, commented, "The installation was a challenge as the centre line of the original barrel was lower than the Wileman so a major modification of the Wileman base frame had to be made, additionally the Wileman barrel was also 342mm longer than the old barrel. However, it was a perfect solution for the team at Springfield Quarry, as they now have a very efficient barrel and their issue with spare parts has now been fully resolved as these will be required less frequently and more importantly are readily available off the shelf."

The replacement scrubber was installed over a five-day shutdown by Wileman's installation team who removed the old barrel and installed the Wileman Pnu Drive Scrubber. Also installed was a new combined top screen discharge chute and scrubber feed chute plus a scrubber discharge chute of similar design to the existing, all fully lined with bolted steel backed rubber liners. Additionally, a new return conveyor discharge chute, again with bolted steel backed rubber liners was supplied. >





Open deck flooring was provided around the scrubber, replacing the original timber, with pipework make-up pieces to supply fresh water to the new feed box.

Brian further commented, "Everything went to plan, we had other jobs to do on the plant and these were completed in the same time frame. Matthew made several site visits and he completed all the drawings and on installation everything fitted as it should within the time scale stipulated. It was completed mid-February and commissioned and we were back into production the following week and it hasn't missed a beat! We really couldn't fault them; everyone knew what they were doing."

Anthony Middleton – Foreman, commented, it was just a great installation from start to finish, I would certainly fully recommend them."

There have been many advantages following the installation of the Wileman Pnu Scrubber:

- Spare parts required less frequently, saving downtime and cost.
- Spare parts available and off the shelf.
- The Wileman design provides a more compact, smoother and quiet drive.
- Simple design coupled with the speed of the barrel is extremely efficient in scrubbing the dirt and adhering fines from the stone.
- Smooth tyre drive reduces the impact loads to the supporting structure.

Industry experience:

Wileman Engineers Limited were established in 1964 and have successfully completed Turnkey Projects for the mineral handling industry for many years. From the outset they developed a reputation for reliable, well designed plant & equipment and have provided excellent service at a competitive price.

Introducing the now acclaimed Scrubber Barrels onto the world market in 1967, these machines have continued to outperform the competitors and have been developed to perform in other associated industries such as recycling.

In addition to Turnkey Plants and Scrubber Barrels, the company have successfully added to their portfolio and now include Mobile Crushing and Washing Plant, Vibratory and Rotary Screens, and Clay pickers.



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Are your managers equipped to ensure safe operations?



Every workplace presents a unique set of hazards and risks. Taking these into account and maintaining a safe and efficient site can be a challenge, particularly if managers are tasked with overseeing a combination of in-house and contracted workers across various jobs. Throw in the wide range of equipment types and multiple card schemes available to the industry and it's easy to see how managing these responsibilities can seem an onerous task.

Management of equipment operation

Many managers may not, themselves, be qualified operatives which raises the question "how do managers and supervisors know if their operatives / contractors are using equipment in the way it is designed to be used and in the way that they have been taught?" Without some form of training, in some cases, they may not. And with greater emphasis from the HSE on the competency of managers and supervisors and their influence in reducing accidents and harm to employees, the pressure to adhere to best practice is building.

The recognition and understanding of UK accredited standards for the operation of specific equipment types is fundamental, but do managers and supervisors know what badge or card scheme is most relevant to their equipment and industry? Below is a quick reference guide to some of the most recognisable accreditations:

IPAF – Mobile Elevated Work Platforms

PASMA – Mobile Scaffolding Towers

MPQC Competency Scheme – Mobile plant specific to quarrying and extractives

AITT/ RTITB – Lift Trucks

LEEA – Overhead Gantry Cranes

ALLMI – Lorry Loaders

NPORS or CPCS – Construction equipment

EU Skills Plant for Utilities – Mobile plant specifically used within utilities and waste

Confident and capable managers

More courses have recently been developed to cater for the needs of modern-day managers and their businesses. Not only are courses available to help managers gain better control over on-site operations but they also demonstrate the benefits of a safe, efficient workforce. Meeting legal requirements is a necessity but there are also financial gains to be made, and they are vast: saving money on compensation, damage costs and expensive disruptions, not to mention the boost that an accident free workplace can give to staff morale, productivity and company reputation.

Let's be clear, the courses that are currently available for managers aren't operator courses. Managers are not necessarily required to operate the equipment themselves but they do need to understand what good and bad practice looks like and be able to spot and limit hazards as they occur. Some of the courses currently available include:



Lift truck operations

For those who are responsible for overseeing the use of forklift trucks, IOSH Managing safely forklift operations integrates our Managing Forklift Operations course into the standard IOSH Managing safely training, and provides an enhanced qualification while maintaining the four day duration. The basic fundamentals of forklift safety such as pre-use checks, stability, stacking and dewatering are explained, enabling managers to ensure forklifts are being operated safely and efficiently in the working environment they oversee.

Working at height with access equipment

When it comes to working at height, industry leading organisations IPAF and PASMA have developed specialist courses for those managing the use of access equipment on site. IPAF's MEWPs for Managers course provides delegates with the skills and knowledge to confidently oversee the use of mobile elevated work platforms, from regulations and planning to supervision and accident prevention. If your teams use mobile access towers, your managers will benefit from PASMA's Towers for Managers course. Following this course, managers will be able to ensure that the use of towers is planned, safe and meets all relevant legislation and best practice guidance.

Whatever their responsibilities, once they are equipped to assess risks and recognise hazards, the more confident and capable your managers will be to step in, communicate effectively and ensure best practice is upheld, for the good of everyone working in the vicinity. After all, it's not just about complying with legal guidelines, it's about being willing and able to actively promote good practice during every shift and making sure everyone gets home safe.

Further information on training and qualifications

Mentor continue to work with their customers to support compliance with training standards. An active role is taken with all of the accrediting bodies to whom Mentor are members and their team will be on hand at Hillhead stand PA16/PB17 to discuss training standards and the routes to competence for your industry. Alternatively Mentor's technical team are available to answer any questions on 01246 555222 or you can visit www.mentortraining.co.uk.

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- Targeted promotional campaign



New CMB International wash screen puts production back on track for McLeod Aggregates

Quarry plant and equipment specialist CMB International of Ravenstone, Leicestershire have recently installed a new bespoke rinsing screen for a Norfolk sand and gravel supplier.

Owned and operated by McLeod Aggregates, Bittering Quarry is situated in Longham, near Dereham, Norfolk. A long established operation, the quarry was originally operated by Tarmac and was acquired by the McLeod family, local farmers and gravel suppliers, in 2014. The quarry processes approximately 100,000 tonnes/annum of sand and gravel which is processed by an on-site wash plant, incorporating a primary rinsing screen, which with several bearing failures in quick succession, along with numerous cracks was clearly needing immediate replacement.

After researching the market for a new screen, it became apparent that after several recommendations CMB International were the company to approach with the task of providing a new replacement screen. Consequently, following a successful quotation CMB International were duly awarded the project to design and manufacture a replacement for the existing double deck screen.

A bespoke replacement:

After a subsequent site visit CMB engineers recorded all the critical measurements to ensure the new screen picked up on the same feed/discharge points including the spring centres and motor drive point.

Liam Holland – General Manager, commented, “The original screen had numerous cracks around the vibrator tube that had been welded to keep the screen operational, but it was plain to see that it was at the end of its life!

CMB duly supplied a new 1.53 x 6.1m double deck rinsing screen which was fitted and commissioned within a specified time frame by associate company – S.P Services.

Liam, continued, “It was more or less a straight forward replacement although we did have to adapt our vibrator unit to suit the existing Cardan shaft drive. We also installed an auto-greaser unit to help prolong the lifetime of the bearings.”

The new screen now processes between 80-100tph and has effectively maintained the production since installation.

David Thurston-Site Manager, commented, “From our initial enquiry it has been a seamless transaction with CMB responding promptly throughout. They were very efficient and designed and manufactured us a new bespoke screen within a very short window. Since the installation the new screen has



been unbelievably quiet compared to the old one! It's been a very successful installation which has finally guaranteed production across the primary rinsing screen.”

A comprehensive range:

CMB offer a comprehensive range of vibrating screens and feeders specifically designed for the aggregates market. Their equipment can accommodate whatever screening media is specified (wire cloth, polyurethane, rubber punch plate etc.). All screens and feeders can be custom designed to fit any new or existing application.

MB go from strength to strength in the worldwide crusher bucket industry

Since 1954 Carlo Azzolin's passion for crushing perfection has been nurtured into a powerful family business that is now the global leader in crusher buckets. MB's first big milestone was 2001 when the first Jaw Crusher Bucket was created and successfully patented by MB, which provided a revolutionary product that changed the landscape for crushing bucket technology.



MB's philosophy has always been to combine the highest standards in fabrication techniques with only the highest grade steel and quality parts. With four major product certifications and two major process certifications, MB are at the forefront of the manufacturing process, and their long standing relationship with SSAB ensures that the MB Crusher range is manufactured from extremely high quality Hardox steel - a special hardened steel made only by SSAB in Sweden.

During 2014, MB opened their brand new state-of-the-art manufacturing facility. Based in Fara Vicentino, Italy, this manufacturing hub covers an area of 17,000 sq/m and employs a total of 150 people, and continues to flourish with ongoing product success. Investment in research and development, focusses on unique, high

quality and specialized products that offer outstanding performance.

MB offer the world's largest range of crushing and screening buckets available through a worldwide dealer's network, with a range of 12 crusher buckets, 7 screening buckets, 4 rotary grapples and 3 drum-cutters available for excavators, loaders, skid steer loaders and backhoes from 2.8 to 70+ tonnes, all supplied on request with a full 24-month warranty. This year saw MB in action at bauma with the launch of their GENERATION 3.0 crusher and screening buckets. These upgraded units have had a complete re-design which has ensured this range is the most successful and award winning for MB. These buckets were in action in the demo area at bauma and were extremely well received by the crowds.

New product launches

Designed for all excavators the new GENERATION 3.0 crusher buckets are now even more compact with better balance in the collection phase. With an expanded mouth the crushing surface has increased productivity across the range. These units now come with a dust suppression system, iron separator and low noise impactor, making them the preferred choice for any construction site, offering total compliance within environmental regulations.

MB buckets are the only global brand that do not need any drainage, ensuring much higher productivity compared to the countless imitations on the market. These original MB crusher units have crushing power that exceeds 110m³ / hour, thanks to the exclusive power enhancer, which crushes the hardest and most tenacious of materials like basalt and granite, ensuring an extremely high quality finished product.



The new MB-LS170

Another recent product launch has been the new MB-LS170 screening bucket which is suitable for wheeled loaders and backhoes from 6.5 to 11 Tonnes and is ideal for natural material selection, and pre and post crushing. This bucket allows for a reduction of up to 60% in crushing time, allowing a user to quickly recover material suitable to the type of processing desired. It is a really versatile machine and can be used in applications such as the primary selection of waste material, demolition, excavation filling, the reclaiming of rocky ground, and right through to consistent oversize selection and beach cleaning. The MB-LS 170 is a real jewel in terms of mechanics, it is also lightweight (around 0.45 tonnes), compact (dimensions 1420 x 1380 mm x H=875) and has a loading capacity of 0.50 m³.



bauma 2016 - MB presents the new MB-LS220, the screening bucket for larger loaders and backhoes

Those who visited the MB stand at bauma, 2016 will have seen the world premiere of the latest MB model, the new screening bucket MB-LS220. The MB-LS220 is not just a screening bucket, but the screening concept evolution: designed specifically for owners of loaders and backhoe loaders from 12 to 35 tons, who need to select waste material but until now, had no option available to them on the market. The new MB-LS220 allows optimization of loaders and backhoe loaders, transforming them in a few minutes into an efficient mobile screening plant, able to process debris in all the process phases. As it does not need to operate over the pile of material, as is often the case with other excavator screeners, the new MB-LS220, can be used to facilitate and speed the processing of the material on different sides of the same construction site.





New website

MB have also launched their new website this year; providing a much improved user experience and a tool that brings the brand closer to all of its customers in keeping with the latest trends in the digital world. Presented in more than 15 languages, the new MB website offers a detailed overview of all its products and services, and has been designed to tailor content based on the customer's choices, preferences, and requirements. It is easy to navigate and completely responsive to all devices, from tablets and computers through to smartphones and smart TV's. But that's not all, customers can also download specification sheets, brochures, find information about the different areas of application, and read interesting case studies of actual MB customers from all over the world.

UK dealer

Worsley Plant was established in 1996, and they are the sole dealer for MB throughout the UK and are also the longest established worldwide dealer, representing MB since 2004, making their relationship very special indeed.

Since its inception, the company has undergone steady growth to become one of the UK's leading plant sales and hire company. Their expertise, product range and relentless focus on customer service has earned them an enviable reputation for excellence.

They pioneered the use of excavator-mounted crushing and screening buckets in the UK through their market-leading Dig-



A-Crusher and Dig-A-Screener brands; all of which have since been rebranded to MB.

In 2007 they extended their range with the REMU range of screening buckets, and in 2011 they became the exclusive UK distributor for the Dutch-built Rotar range of demolition attachments and now also offer density separation technology from Waste Systems with the Max X Tract and Flex X Tract. The latest addition to the growing range is the Lehnhoff Variolock Quickcoupler System in late 2013, which has been an ideal addition to work with their growing range of attachments. Worsley Plant now are proud to call themselves 'the attachment specialists'.

Worsley's philosophy has always been to represent high quality manufacturers whose niche brands complement each other; with their goal to attract a bigger market share across the brands that they currently represent. With over 400



customers across the UK, Worsley Plant provides unrivalled sales, expertise and aftercare. Their team members are trained in customer satisfaction, with all of their products backed up with a comprehensive parts stock ready for next-day delivery. Demonstrations can be arranged, allowing you to see an attachment or machine in action before you make a decision. With Worsley, you can satisfy all your plant hire needs through a single, reliable and highly experienced source that understands your business and its specific demands.



20th Birthday

This year Worsley Plant celebrate their own 20th birthday, which has coincided with the opening of a brand new depot based in Witham, Essex to service the South of the UK. They now also have a dedicated resource and depot in Scotland.

The company will also take possession very shortly of the biggest crusher bucket in the UK from MB, which will be on display at the Hillhead exhibition in June. This 8 tonne crusher bucket attaches to a 50 tonne machine and will be a real spectacle at the forthcoming show.

To learn more about MB visit www.mbcruiser.com and to find out more about their sole UK dealer Worsley Plant, please visit www.worsleyplant.co.uk



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Sort it out:

Will robots replace manual waste sorters?

Traditional, manual industries, as we know them are in a period of radical change. Technology is advancing at an alarming rate and changing the scope of what is possible right in front of our eyes.

Many jobs have already been replaced by automation, including bank tellers, book-keepers, shop workers and teaching assistants.

The Bank of England's Chief Economist, Andy Haldane believes that over 15 million jobs could be at risk over the next two decades.

Although becoming more commonplace in manufacturing environments, robots are not a new concept. The first industrial robot, named Unimate, was introduced into General Motors in 1961 by Joseph F. Engleberger, Founder of Unimation.

More recently, robots have meandered into the waste industry and have started to replace manual workers and have proved to be a key driver in accelerating waste sorting operations across the globe.

Waste separation, a vital process in material recovery has extensive benefits, including landfill diversion, the reuse of profitable waste elements and materials.

The EU have set out targets that aim to have a recycle rate of 70% by the year 2020 and it is estimated that currently 700 million tonnes of waste is currently reused or recycled each year.

With such targets being a major concern to waste companies, finding solutions that are cost effective is a fundamental business strategy. Robots are one way to separate waste more efficiently and faster, with extreme precision and zero downtime.

One of the largest wood recyclers in Holland, Baetsen takes in 130,000 tonnes of waste annually. By using robots in their waste sorting process, they are now achieving recycling rates of up to 75%.



The Euro 1 Million ZenRobotics Recycler which they have introduced into their site is believed to be the first of its kind.

The robot is programmed and 'taught' over a set period of time and develops into a highly sophisticated and reliable piece of kit.

In its first two weeks, the Euro 1 Million has the ability to process around 40-50% of its intended targets. After this, when it has adjusted and any potential bugs are corrected, the process rate is 100%.

The Euro 1 million works by using a combination of photographic technology and sensory data. The waste is placed on the conveyor belt where cameras, lasers and sensors determine the type of waste on weight, components and density.

The 'sensory' data is then transmitted to the robots 'brain' stimulating the robot to work at a rate of milliseconds, quicker than possible by the human hand.

In an hour, the Euro 1 Million can lift, hoist and sort up to 2,000 items, weighing up to 20kg each and the sorting gripper can handle dimensions of 50mm to 500mm.

The system is multi-tasking, with each 'arm' being capable of high precision sorting, with a potential purity level of 98%. They also run for 24 hours a day.

It's no surprise that with technology this advanced, waste companies may look towards these solutions, rather than employing manual workers.

Timo Taalas, CEO of ZenRobotics says, "The ZenRobotics Recycler is a great example of next generation waste sorting. We want to introduce new thinking to the industry.

"The system was designed to lower the cost of recycling and improve the efficiency. Imagine 24/7 waste sorting - that's the benefit of automation."

Author: Kerry Voellner

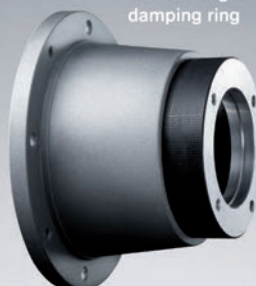
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IDEAL APPLICATIONS

- Separating long, thin ferrous metal, such as nails (a single-pole design will result in nails driving in the conveyor, damaging the belt)
- Maximum recovery of ferrous in refuse and MRF recycling operations.
- When further processing equipment, such as a crusher, needs protected.

For more information on the **Twin-Pole Design** of a Overband Magnet, please contact the Bunting Technical Sales Team



Tel: 01442 875081
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Free Kiverco Health Check

Even the most robust recycling plants need to be looked after

As part of our ongoing customer service strategy we are now offering – for a limited time only – all of our existing customers a free Health Check!

A Kiverco system engineer will come to see you and will check that your plant is working properly. This engineer has gained vast experience as they have worked for years building the equipment in our factory and then installing it on site.

Having a Health Check will give you peace of mind that your plant is in good condition. Our systems Engineer will be on hand to give you advice on how best to get the most efficient throughput from your plant.

The Health Check will take approximately two to three hours and will look at all areas of your plant.. This will include:

- Conveyors, including drums, rollers & bearings
- Picking Stations
- Feeders
- Trommels, including drive wheels, drive shafts, drive hubs
- Blower Fans
- Magnets
- Density Separators
- Ballistic Separators
- Eddy current separators
- Flip flow boxes
- Shredders
- Optical sorters

The Kiverco Health Check will result in a recommendation report which we will provide to you after our visit. This report will show you the current state of each module and will outline the improvements or replacements we would recommend to guarantee the best performance of your Kiverco plant.

We can also discuss with you modifications or upgrades if for example your input material has changed or if you want to improve or change your output material. We have gained

substantial experience designing recycling plants for all different types of customers and waste streams around the world and we want to help you with your future plans, ideas and ambitions for your business.

The Kiverco Health Check is part of our wider customer service strategy. The integral part of our customer service offering is Kivercare.

With Kivercare, our customers get peace of mind and total control of all aspects of care of their plant.

With regular inspections potential issues are identified before they become a problem minimising the financial impact of unplanned downtime and costly repairs.

Good housekeeping coupled with a Kivercare Inspection & Maintenance plan will not only ensure maximum up time for your plant but will also help to create a safe working environment for all of your employees.

Our Engineers are available to respond to mechanical or electrical breakdowns and to carry out routine servicing & maintenance work.

Health and Safety plays a large part in everything we do. All of our engineers are fully trained in all aspects of site work and hold all relevant licences and documentation.

Kivercare is designed to give you access to the very best in after sales care. This is what you will get:

- Kiverco trained engineers who know the Kiverco equipment inside out
- Properly scheduled planned full plant inspections
- Original equipment replacement parts and rapid delivery to your site
- Kiverco factory backed support by our skilled engineers
- A UK based Customer Support Manager to assist you with any local issues
- Regular inspections and written reports on plant condition, with advice on any upcoming issues to enable planned repair to reduce downtime
- Access to a network of approved third party specialists when required



www.hub-4.com/directory/15003

DUO Manufacturing supply a new C&D Processing Plant for Day Aggregates at their Crawley operation

Day Aggregates have recently opened their new C&D plant at Crawley in West Sussex. The new plant which will process C&D material has been designed, manufactured and supplied by DUO Manufacturing to a Day Aggregate specification and is the 4th plant that the bulk materials handling equipment specialist have supplied to Day Aggregates.

With three other C&D and waste recycling plants across South East and West London, planning approval was granted for a similar plant in the late nineties, but because of prevailing market conditions at that time and the level of competition in the local area, the company consequently elected to develop their Purley operation in advance of Crawley.

Nick Sadler – Operations Director – Day Aggregates, commented, "As Purley developed and became established in the market place after 2000 we realised that there were additional opportunities in Crawley as it was too far to transport the raw materials back to Purley. We therefore 'tested the water' and operated a mobile crusher on-site under the 28-day rule for several years. Then, realising the strength of our good location and a regular input of raw materials, coupled with a robust market, we decided to re-apply and duly received planning permission for this plant in 2012."

The plant concept:

Due to certain operational constraints it took some time for Days to develop the land at the southern end of the site initially and to decide upon the design of the plant.

The location of the site was potentially a highly sensitive area, with established housing over to the south and west, and also a proposed development of a significant area of additional housing around the site over the next five years.

So when Days designed the plant to achieve the planning approvals, the company had to consider the

potential environmental consequences of these significant future developments.

However, apart from the environmental perspective, the final design had also to be very mindful of the fact that firstly employing, and then retaining people in the industry is difficult at times. Consequently, key elements in the design of the plant were carefully considered to ensure their personnel worked in an environment in which they would be comfortable in.

Originally, Days were going to opt for a more mobile construction type operation which would be installed into a building, but with experience of building processing plants with DUO based on their 'factory concept' design, it made perfect sense to continue this proven theme.

Nick, continued, "When the crushing of concrete and demolition material was in its infancy most people would process it through a mobile crusher, pick it up and then re-screen or secondary crush it, which resulted in so much double and triple handling it just wasn't cost effective to do it in large volumes. So we developed a 'factory concept design' with a single point of entry where the raw material feed is fed in using a hydraulic excavator and the material is conveyed around the processing plant until at such time the finished product discharges at the end. This completely eliminates double and triple handling the material. The new plant processes a range of material sizes, which once selected through the PLC, will pass through the primary crusher, under a magnet, then screened, and stockpiled. Alternatively, material can pass through the secondary process where it will go through a picking shed, a secondary impact crusher for size reduction and shaping accordingly and then re-join the product run for final de-metalling, sizing and stockpiling."

This concept was developed by Days over 20 years ago and prior to Crawley they had





Feed hopper



Re-circulatory conveyor



Re-circulatory conveyor, feed end onto primary conveyor



In-line Steinert electro overband magnet

three existing plants at Brentford (1998), Purley (2000) and Greenwich (2003) making Crawley the 4th. Over this period Days, working with DUO Manufacturing learnt from their experiences of bulk materials handling and subsequently designed a plant which incorporated all the latest technological advances, which has resulted in probably the most compact and efficient plant they have built together.

The Crawley plant has a very small footprint and the final design is quite innovative in terms of compactness and flexibility to produce a whole range of materials without the need to double and triple-handle.

The build:

The contracted period for the whole plant build was approximately 20 weeks which was more or less achieved through what was considered the wettest winter on record!

Acting as Client, Principle Contractor and Principle Designer, Day Aggregates engaged several companies to work alongside DUO Manufacturing which included Vision Groundworks (Civils), Martin O'Brien & Associates (Consulting Engineer), Metso (Equipment Specialists), Delta Air (H-Vac), Wright Rain (Dust Suppression) and DUO's preferred electrical supplier – Axon.

Building philosophy:

The building itself features some fairly innovative designs when considering the potential for both noise and dust; developed to consider not only their own personnel but also an industrial plant constructed in an environmentally sensitive area.

The plant structure itself incorporates a 'sandwich' design acoustic cladding which statistically has a weighted reduction of 25Db compared to a traditional single sheet cladded building – this is very significant in terms of reducing the potential for noise pollution.

Similarly, for the operating personnel Days developed two very sophisticated integral HVAC systems supplied by Delta Air, which are fitted in each of the control rooms where the operators actually work when material is being crushed. These H-vac systems combine heating, ventilation and air conditioning, providing a 'one fits all' solution. Therefore, the system provides thermostatically controlled heating, ventilation, positive pressure and also clean air, all of which have to be managed through a series of filters which have to be maintained. Filter maintenance is a straight forward process with an automated traffic light system advising the current state of the filters, all of which can be accessed directly from a safe walkway rather than in the air on top of the cabins.

It's a very simple system which is activated at the start of the day by the touch of a button, with the thermostat dependant on the ambient temperature outside.

For example; in the picking shed where air is brought in from the outside; freezing air would be brought into the building in the winter which then passes over a 9Kw heating coil, heating the air as it comes in with the overall temperature dictated by the settings in the control room. Similarly, in the summer, hot air enters which passes over a cooling density coil which actually lowers the temperature of the air as it blows into the central compartments. All of this results in a consistent ambient temperature whatever time of the year.

Dust suppression:

Dust suppression in the plant was supplied by Wright Rain which although fully automated can be overridden by the plant operator who can boost, or reduce the water, or turn off completely if wet material is being processed. Wright Rain also introduced some smart systems which can actually receive outputs from the belt weighers, ensuring that dust



View of the control cabin



HVAC systems



View towards the magnet



Nordberg NP1110 secondary impactor

suppression is only activated when they see material; turning off as soon as it drops off to a certain tonnage.

Dust suppression is also utilised externally with a series of zones within the main processing yard itself outside the plant, which allows dust suppression of processed material that is in stock. The system also dust suppresses the haul roads and also raw material that is waiting to be processed in the hot summer months, when lorries tipping can cause dust. These zones can be controlled centrally or from remote secondary controls.

Access and maintenance

Nick, further commented, "We also looked very closely at safe access and egress for our personnel, in and around the building, not just to ensure they could get to their place of work but also to make on-going maintenance on the plant easier and provide safe access without having to work off ladders at height."

"Most work on this plant can be mainly performed straight off a permanent platform or a specifically designed walkway which will allow access to particular equipment. We looked very carefully at access and egress for the replacement of wear parts and designed the plant with a series of large 4-5 metre roller shutter doors in each of the plant faces. This allows us not only daily access, for regular tasks, but will also allow us to replace large items of equipment in the future. All of which can be easily done without having to dismantle the building."

"We have a responsibility under CDM regulations to consider not only the design of the plant pre-construction, but the ongoing maintenance of the facility both in the short and long term. This includes giving due consideration to its dismantling in the future. That is what the CDM regulations apply to – it is not just about building plants safely, but running, maintaining and eventually decommissioning safely too."

The design also incorporates a series of heavy duty lifting beams around the plant which eliminates all manual handling when performing wear part and equipment changes. All can be lifted up from the floor and into position, something which was designed by DUO Manufacturing to the company's specification.

Plant capabilities:

All the incoming C&D material originates from the local demolition market and is dictated by the level of demolition in Sussex and the surrounding areas.

Nick, commented, "One of the reasons for developing Crawley was its proximity to Gatwick airport and

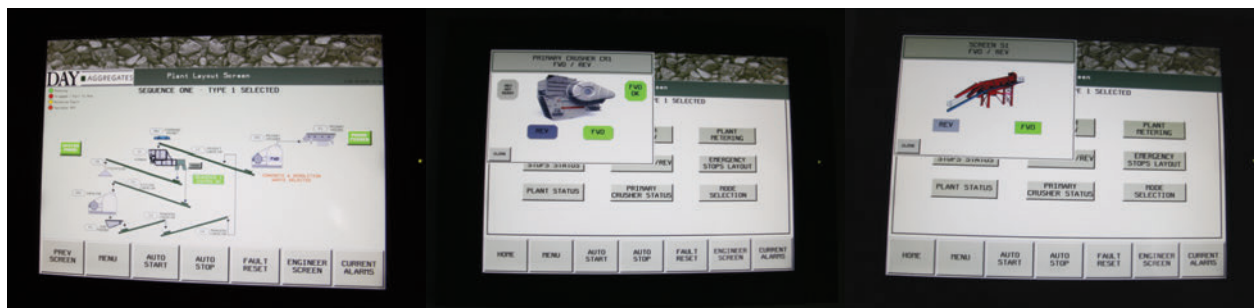
secondly the local area has been subject to a lot of redevelopment in the last few years, and therefore this is a good market for us. It is a cyclical market with demolition activity dictating levels of incoming materials, but we have the ability to hold 6-7,000 tonnes which we can process on demand. The beauty about it being so close to Purley, is in busy/quiet times we can move our raw material around dependant on where the finished product is required. So for example if Purley has a lot of raw material for example we can divert some of our 'break-out' jobs from Purley to Crawley and vice versa depending on the prevailing market."

The plant can produce a range of fully compliant, high quality recycled aggregates to satisfy both small builder and multi-national construction companies alike. The size of material, ranging from 50-125mm is dictated by the 3 production settings on the programmable logic computer. For two out of three of these sequences the whole plant is used; for the third one when larger material is produced the programme of the PLC will shut down elements of the plant not required to process it, making the facility very efficient in terms of energy consumption. The plant will normally process 200tph but dependant on feed such as raw asphalt it will process double! However, if the plant has a lot of breakout to process then it will produce in excess of 1000 tonnes/day quite comfortably – the Day philosophy of extra in-built capacity to facilitate planned downtime for very essential maintenance, is one wholeheartedly supported by DUO Manufacturing.

Nick, further commented, "This plant, as with each plant we construct is without doubt an improvement in design compared to the last, although it's more evolution than revolution, learning as we go, building on our previous experience – technology changes, the equipment market changes, the products change, so it's imperative to evolve and take full advantage of any technological advances. Having worked very successfully with DUO Manufacturing for over ten years they have helped us design, build and improve upon plants similar to this and always to our specification as a minimum. Although we started with quite a prescriptive scope of works, we did encourage DUO Manufacturing to offer what they considered to be right, and to enhance our design still further, based on their many years of plant manufacturing experience."

Dudley Lloyd – Director DUO Manufacturing, commented, "We suggested looking at three crusher manufacturers at the outset and after a

3 views of the monitors in the control cabin



Nordberg CVB102-P double-deck vibrating screen



Picking belt



Picking cabin

factory visit to Finland, it made sense to opt for Metso and the state-of-the-art features that came with that manufacturer. Days were interested in some of the technology that Metso had over the operation of the plant in terms of making it very user friendly and taking away the old legacy of manual handling and setting of the crushers, so the main plant crusher and the secondary plant impactor and screen was sourced from them with the vibrating feed tray from Macon in France."

Duo Manufacturing designed, manufactured and supplied a C&D Processing plant, CE marked to execution class 2, with all supporting structures, walkways and stairs. Both crushers, screen deck, vibrating feeder tray and overband magnet were sourced separately by Days from the manufacturers.

The process:

Material is fed into a skid mounted grizzly feeder and hopper which feeds the Nordberg C106 primary jaw crusher through a Nordberg TK11-22 vibrating pan feeder. Primary crushed material is then fed onto an inclined screen conveyor from which the material passes under an in-line Steinert electro overband magnet and any ferrous material is picked up and discharged to a bay outside the building via a specially lined chute.

The Nordberg CVB102-P double-deck vibrating screen features a top deck; aperture to suit 100mm passing, and a bottom deck which is fitted with heavy-duty mesh; aperture to suit 50mm passing. A rollaway chute with a manually operated flap diverts the +100mm, to either the main product stockpile conveyor or the secondary impactor via the picking shed. An identically equipped rejects under-chute also diverts the -100mm, +50mm to identical destinations. A -50mm through fines under-chute delivers to the main product stockpile conveyor.

All material destined for the impactor is then fed onto the inclined crusher feed conveyor which passes through a picking station where 'picked material' is discharged to a bay containing waste skips directly underneath. The

remaining clean oversized material is then fed into the Nordberg NP1110 secondary impactor and discharged onto the recirculating conveyor via a Nordberg TK12-26 vibrating pan feeder. All crushed material is then fed onto the transfer conveyor which subsequently delivers the crushed material onto the transfer conveyor which subsequently delivers it into a heavy-duty transfer hopper, feeding onto the primary conveyor for further screening prior to stockpiling as finished product.

Driven by a PLC:

The plant operates from a PLC situated within the control room which features a dual interfaced control panel for the primary crusher interfacing in turn with the main control panel. The HMI panel controls everything on the plant except the primary crusher and the new Metso technology – the Metso IC1000 software operates the primary crusher and feed tray. The crusher settings and speeds and reversible action can be adjusted at the touch of a button.

The beauty of the main HMI allows you to observe through a single monitor a complete schematic of the plant, showing you exactly what part is operational, utilising a traffic light system and illustrates the status of all the safety and electrical devices that are wired into the HMI. Therefore, when a conveyor stops, these schematics allow easy location of any conveyor, pull wire, or safety device that has been activated. Incorporating visual diagnostics, it can provide the current plant status and also that of 'start-up' and 'shut-down' showing where you are within the sequence. It also allows you to make all your settings for the HMI at the press of a button totally eliminating any manual handling.

Commissioned in December 2015, the new plant went into full production in early January 2016.



DAY ■ AGGREGATES

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WASTE HANDLERS



Terex Environmental Equipment at IFAT 2016 – machines for every application

Terex Environmental Equipment (TEE) a global leader in the design and manufacture of wood processing, biomass and recycling equipment will be showcasing its diverse product range at this year's IFAT, in Munich. An impressive stand within hall C2, number 526, will have a patented TWT 500 Windrow Turner on display and will be the focal point for customers and TEE representatives to meet and have discussions. Both compact and powerful the TWT 500 is the ideal solution when processing windrows in confined spaces. Operators can easily increase production volumes by up to 30% compared to traditional Windrow Turners due to the machine's ability to process over lapping windrows.

Positioned between halls C2 and C3 will be the new TTS 620, this highly versatile wheeled trommel, with a 2m diameter drum and advanced hydraulic control will be sure to capture the attention of visitors to IFAT. With an easy change drum system and swing out engine cradle the TTS 620 is one of the most user friendly trommels on the market today.

Within the VDMA working area TEE will be demonstrating the revolutionary TDS V20 medium speed shredder and the unique TTS 520-3 three fraction trommel. The TDS V20 is testament to TEE's drive to shape the waste processing industry for years to come and is the result of a hugely successful partnership between Terex and leading German Shredder manufacturer Vecoplan. The industry first mobile medium speed shredder combining replaceable sizing screens, an intelligent tramp protection system and a highly accurate cutting action allow the machine to generate a controlled product size with the added benefit of minimal fines creation. The waste wood application which the machine will be operating in will demonstrate its ability to create a biomass product in a single pass with the added confidence that tramp material protection is in place. The TTS 520-3 trommel will be displaying the unique disc screen system which removes oversize product from the feed material before it enters the trommel drum for separation. Compared to competitor machines, which have a star deck fitted over the feed hopper, the TTS 520-3's patented design offers operators the benefit of a full hopper for loader feeding, the ability to convert the machine to a two fraction setup without removing the star deck and an intelligent folding design allowing the three



fraction machine to be transported within the same envelope as a standard trommel.

TEE's sister company CBI will be running the enormously productive 6400 grinder. CBI machines are always a crowd pleaser processing vast quantities of material while offering some of the lowest cost per tonne figures within the industry.

With the ever increasing demand for waste processing equipment, SRF and RDF production and biomass products, Terex Environmental Equipment's vast product range combined with the power of the CBI equipment are set to make a big impact at IFAT 2016.

For more information on the complete TEE and CBI range please visit our websites: www.terex.com/environmental-equipment and www.cbi-inc.com



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CARS 2016 will take place at Donington Park Circuit, Derby, United Kingdom

Henshaws strengthen their fleet as they take delivery of a new Liebherr LH24 M Industry Litronic material handler

From their 16 acre waste transfer station in Macclesfield, Cheshire, they provide clients with a range of waste services including skip hire, commercial waste disposal, scrap metal recycling and tipping facilities.

We went along to meet James Henshaw, transport manager, to talk about the new machine acquisition. "The site employs over 50 people and this is where all of our processing is done. The main input stream is skip waste, along with council waste, scrap metal and cardboard. The site includes a 50 tonne weigh bridge, separate segregation bays, aggregates centre and 200ft picking line, which operates with up to 50 picking staff allowing us to recycle all waste efficiently and effectively."

"We have invested a substantial amount in new site material handling equipment over the past few months and have also had a brand new fleet of ten wagons to compliment the operation. We decided on the new Liebherr LH24 as we have always been very happy with Liebherr, and having had their machines since 2001, this is our third one now. It's a cracking piece of kit and we are extremely happy with it."

The LH 24 M Litronic impresses with its robust and compact design. Accordingly, this type of machine is particularly suitable for use in the field of recycling. Utilising state-of-the-art engine and hydraulic technology developed by Liebherr, the main focus is on fuel efficiency whilst concurrently



James Henshaw with the Liebherr LH24

increasing the handling capacity. This achievement is moreover heightened by the wide choice of attachment combinations, which have been optimally coordinated for the respective applications.

For more information please visit www.liebherr.co.uk



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Keenan Recycling Ltd invest in their 4th Neuenhauser Star Screen

Keenan Recycling Ltd have recently invested in their 4th Neuenhauser Star Screen. The machine supplied by sole UK dealer Riverside Machinery Ltd is being put to work at their New Deer facility, north of Aberdeen. The Neuenhauser Star Screen will be used to screen both shredded green waste and food waste.

When screening the shredded green waste the material will eventually be sold as chemical free compost for farming and gardening use.

In addition the machine will be used to screen the food waste after the aeration process where the material will eventually be used as a soil improver.

The latest Neuenhauser Star Screen purchased by Keenan Recycling is fitted with a 6.9m x 1.25m screendeck to produce from 0-15mm up to 0-30mm. In addition power is provided by a JCB 4 cylinder turbo engine.

John O'Neill comments "we are delighted to deliver yet another high quality unit to Grant and the team at Keenan Recycling. We have enjoyed a superb relationship with them since 2008 and look forward to continuing this great relationship. Keenan Recycling have proven yet again that the Neuenhauser Star Screen is the machine to have for screening organic waste. Nothing will come close in terms of throughput, cost per tonne and reliability"



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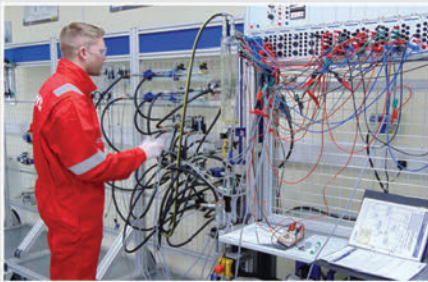


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GDC Group chooses CASE

The GDC Group, part of global heating products manufacturer Glendimplex, has recently purchased a CASE 521F XT waste configuration wheeled loader.

Supplied by CASE dealer Warwick Ward from the company's Redditch branch, the CASE 521 FXT will be used in GDC Group's recycling process at their brickworks manufacturing plant in Brierley Hill, West Midlands.

The only plant of its type in the UK, it produces 2 million bricks per year for use in the Glendimplex range of electric storage heaters. During production any bricks that are cosmetically damaged, which equates to approximately 3% of production, are then recycled at the site and used in the production of new ones.

The main task of the 521F XT is to load the bricks into the plant's crushers and move the iron ore from the storage area into the plant, so a robust, fuel efficient machine was required.

Part of CASE's renowned F Series range, the 521F XT wheeled loader is ideally suited for material handling duties in this type of challenging environment. Using a powerful-and-efficient 4.5-litre Stage IIIB engine it delivers maximum power for different work modes. It also benefits from SCR (Selective Catalytic Reduction). This allows the engine to run at peak performance, which provides faster throttle response while also maintaining lower temperatures and delivering up to 20% better fuel efficiency over other solutions.

Economy is optimised even further with auto-idle and auto-shutdown features. Plus, SCR is simple. No Diesel Particulate Filter regeneration or replacement. No extra downtime and no extreme temperature spikes.

Previously the company had always leased machines for this task at Brierley Hill, but when their current lease was up, they decided to look into purchasing a machine. As part of this process they approached CASE dealer Warwick Ward as well as other well-known construction equipment manufacturers, and after careful evaluation and testing, decided to purchase an F Series 521 FXT wheeled loader.

"After looking at and comparing various machines from several manufacturers we thought the CASE wheeled loader offered the best value for money against similar machines in this class," said Paul Taylor, operations manager. "We also really liked Warwick Ward and CASE's proposition, to let us trial the machine on-site before we purchased.

"We originally went to several of the other leading manufactures and CASE was the only one prepared to let us have the machine on trial. This was a major factor for us, as we had not used CASE machines before. One manufacturer would only let us trial their machine if we agreed to purchase it!



The company was also impressed by the aftersales service and maintenance package offered by Warwick Ward, as well as the extra advice they got regarding buckets and teeth.

"Warwick Ward also advised us to take a Hardox hardened bucket as we are working with and moving such abrasive material – broken bricks and iron ore, so we have decided to go with that option." adds Paul Taylor.

The 10 tonne class CASE 521F XT is available with XR (Extended Reach) linkage for a greater dump height and versatility and a XT (Tool Carrier/Parallel Linkage) for maximum utility, excellent visibility and parallel lift.

Operator comfort is also catered for with the CASE 521 FXT - offering one of the industry's quietest and most spacious cabs with class-leading visibility thanks to floor-to-ceiling windows, a low rear hood and an optional rear-view camera. The ergonomic, state-of-the-art joystick steering helps reduce operator fatigue while an ISO-mount cab design, dual air filtration system and optional heated air-ride seat help provide daylong comfort.

 www.hub-4.com/directory/156



The Magnificent 7 for CRS

CRS NI Ltd design, manufacture and install premium waste solutions for the recycling industry from stand-alone Mobile Fines Recovery to Complete Turn Key Waste Solutions.

CRS have just installed their 7th Complete Waste Solution to GBN Services this month which included their award winning, patented and new "Double Drum Air Separation Unit with Flip Flow Screen," the best Fines Recovery System on the market according to many customers worldwide.

This unique Double Drum Air Separation Unit with Flip Flow Screen is the only system of its kind on the market and enhances CRS's already patented and high performing direct drive flip flow system driving both decks ensuring maximum agitation.

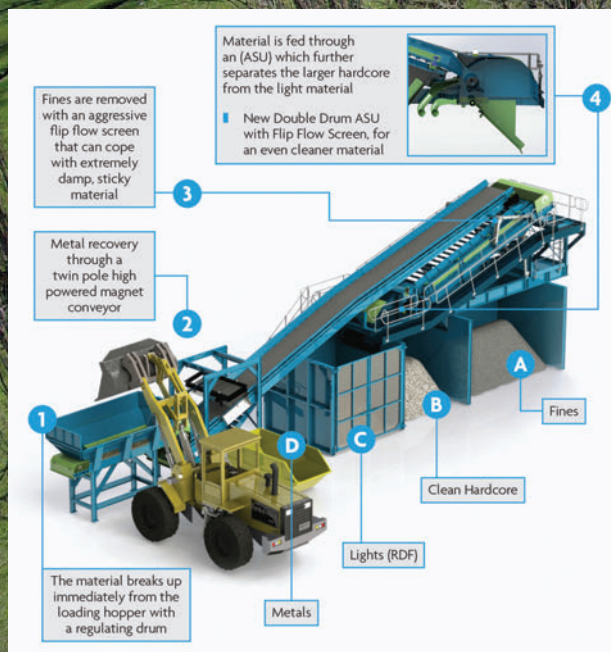
It is a unique design using two high powered fans directed through two separate adjustable air nozzles working in conjunction with the double drums to produce an even cleaner material and a more effective separation.

GBN Services had purchased the New System displayed at Scot Plant to add to their extensive range of CRS equipment throughout their various sites in the UK. GBN Services is the leading skip hire, recycling and waste company for construction, commercial and household customers across London and the South East.

GBN Services have 210 vehicles and 6 Depots including; Leyton, Rochford, Harlow, Southgate, Uxbridge & Basildon to cover the London Area. These centres include Waste Recycling, Metal Recycling, Wood Recycling & RDF Processing Plants.

The relationship began between CRS and GBN Services back in 2013 when they were considering a complete waste solution for their new site in Harlow. Their request was to process a very high tonnage approx. 500 tonnes per day with a mixture of products so it was essential that the plant was extremely robust and could withstand the most abrasive materials at high throughput.

The 7th CRS Recycling System at GBN Services, Basildon Waste Transfer & Treatment Station



They also wanted to work with a company who designed and manufactured everything in-house so they could really design a plant to suit the job rather than sell a standard of the shelf system. GBN Services decided to work with CRS and Garry Hobson explains why

"We chose to work with CRS as they are renowned for their high performing flip flow screen and also manufacture all their products in-house. They spent the time onsite getting to know us and our products, then designed a plant to suit. We installed the first CRS plant in Harlow in 2013 and were very happy with its performance and as a result we have since installed 7 more complete turnkey systems consisting of Hoppers, Conveyors, Trommels, Picking Stations, Air Separation Units & Fines Recovery Systems.

Garry Hobson, GBN Services

3 years later and the 7th Installation including the CRS New "Double Drum Air Separation Unit with Flip Flow Screen is to further refine their recyclable process and ensures GBN 100% diversion from landfill.

Sean Conlon, Managing Director of CRS NI Ltd commented "We have expanded our business through a high percentage of repeat business and GBN Services are an example of this.

The CRS team were delighted to get the opportunity to first work with GBN Services in 2013 and since have built a great relationship to understand their specific requirements to provide them with waste systems over the last few years and we are delighted to now install our 7th waste recovery solution"

GBN Services, Harlow - CRS Complete Waste Solution



GBN Services, Harlow - CRS Complete Waste Solution



To view the Uxbridge plant running and for a full video testimonial from site manager view our website www.crsni.com. For further information please contact marketing@crsni.com or Tel:028 807 60496



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Not ONE but TWO great reasons to get to Donington Park

- the Complete Auto Recycling & Secondary Materials Trade Show and the Metals Recycling Event

There is only one place to be on the 13-14 July 2016 and that's Donington Park Race Circuit, for the Complete Auto Recycling and Secondary Materials (CARS) trade show and the inaugural Metals Recycling Event (MRE).

The CARS trade show is Europe's premier event for auto recyclers and its hands on approach with live demonstrations and interactive Skills Lab is somewhat unique in the industry. Held biennially, the show is the only one of its kind in Europe, requested by the industry, covering all aspects of the sector. With over 1300 attendees in 2014 and tickets now FREE in 2016, CARS is the one stop shop for those involved in the process of turning end of life vehicles back into products or materials.

MRE, in partnership with the British Metals Recycling Association, is a brand new event tailored towards improving the metals recycling sector. The show will provide opportunities to network with key influencers and suppliers in the industry – something the sector has been missing and is in particular need of in these times of low metal prices. One FREE of charge ticket will gain visitors access to both shows and their exciting features which include the indoor exhibition showcasing the latest machinery and services, live outdoor demonstrations and a line-up of key influential speakers.

There is so much to do and see at both events that visitors will need to plan their time carefully to ensure they don't miss out on anything. The conference theatre which is sponsored by Duesmann & Hensel, offers a broad and hard hitting two-day agenda designed to help business owners stay abreast of key issues affecting the industry, provide information on how to protect their business and facilitate growth going forward.



Topics being addressed include:

- Policy and legislation: shredder residue
- Recovering useful materials from shredder residue
- Forecasting and market trends, market direction and future technologies
- Metals exports
- The circular economy
- New production vehicles: laptops on wheels
- REALCAR: collaboration of a closed loop value chain
- The Impact of Market Forces
- New Salvage Code of Practice, its issues, possibilities, capabilities and consequences

Visitors to the event will hear presentations from key industry players; ABP Club, Anbakam Metals, Ashvin Metals, Aviva UK, Axion Recycling, Black Country Metals, Blue Group, British Vehicle Salvage Federation, CarTakeBack, DEFRA, DH Systems, Dismantling Solutions, EGARA, Environment Agency, EuRIC, Jaguar Land Rover, Novelis, RecoAuto, REDWAVE, Steel First, Thatcham and UK Steel.

Cubby Construction turn muck into gold with a Portafill

Cubby Construction Ltd of Carlisle have recently installed a Portafill wash plant from UK dealer Riverside Machinery Ltd.

The plant consists of a Portafill 3000 Tracked Rinsing Plant, Portafill DW80 Dewaterer and Portafill fresh water pump. The water treatment equipment has been provided by Siltbuster.

The plant is processing a mixture of materials which includes utility waste, track ballast and material from road maintenance programs.

The purpose of the plant is to produce a washed 10mm aggregate, 20mm aggregate and sand. The silt content is sent to the Siltbuster plant where the water is removed via lamella plates and plate press thereby allowing clean water to feed the wash plant.

John O'Neill of Riverside Machinery Ltd comments: "this is an extremely compact setup and for a relatively small investment we are providing a working plant which is producing excellent materials from a difficult feedstock"



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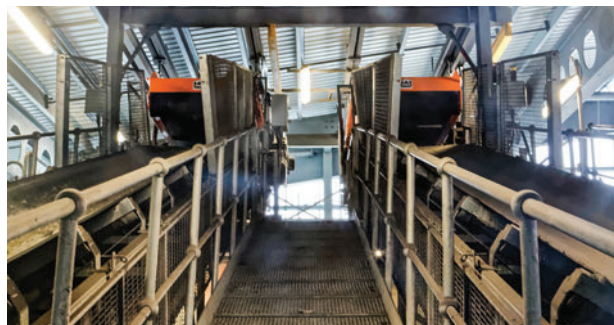
THINK GREEN Go Blue

Viridor install new Eriez multi-pole suspended magnets

The recovery of valuable metals that have incorrectly been disposed of into the non-recyclable waste system, is a widespread problem throughout the Energy from Waste process. However, Eriez Magnetics Europe are able to provide the perfect solution.

Viridor has recently installed two of Eriez' impressive Multi Pole (MP) suspended magnets at their new £223m Energy Recovery Facility in Cardiff, South Wales. The magnets installed at the site feature Eriez' Multi Pole (MP) magnet assembly which allow Viridor to recover ferrous metals from up to 350,000 tonnes of waste per year.

To achieve the highest recovery levels of ferrous metals using Eriez' suspended magnets, Viridor installed the magnets on a robust framework in-line with the belt mounted above the head pulley which often allows for more successful separation. Both magnets supplied by Eriez' were designed and manufactured to suit Viridor's 1000mm conveyor belt yet importantly, feature a 1800mm long magnet assembly which allows for a more intense carry-over distance of ferrous material than would be achieved by an extension magnet. Eriez' innovatively designed multi pole magnet helps to ensure that all ferrous is discharged reliably to the correct depository.



In addition to the revolutionary development of Eriez' Multi Pole (MP) suspended magnets, Eriez now proudly hold a comprehensive range of its Centre Pole (CP) suspended magnets in stock. This allows customers to obtain immediate access to a range of permanent suspended magnets suitable for a range of belt widths and suspension heights.

Gareth Meese, Sales Director at Eriez Europe commented, "The development of our Multi Pole suspended magnet further emphasises Eriez' dedication to supplying a diverse, innovative range of magnetic separation solutions to the industry. Holding a large selection of our suspended magnets demonstrates Eriez' dedication to its customers and enables rapid supply of popular models."

Eriez continue to supply a high volume of robust, competitively-priced suspended magnets every month to customers throughout Europe who have a need to successfully remove tramp iron and achieve maximum protection of downstream machinery – all manufactured at their European headquarters in South Wales, UK.



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ZenRobotics lead the way in the evolution of efficient robotic waste sorting



Timo Taalas,
CEO of Zen
Robotics

In 2007, ZenRobotics was born. Its aim to create a new range of artificial intelligence (AI) controlled robotic systems that could handle extremely intricate waste sorting solutions. The synergy of the neurorobotics research group at Aalto University in Helsinki and sheer brilliance of

Tuomas Lukka, a junior fellow at Harvard and Finland's youngest ever doctor, lead to the creation of ZenRobotics, now one of the leading forces behind robotic sorting systems globally.

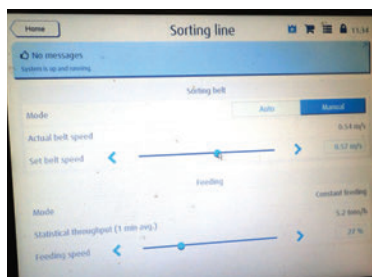
The HUB magazine, along with other leading industry publications, were recently invited to Helsinki, Finland by the Blue Group, ZenRobotics' sole UK dealer, to get a special close up look at the new wave of robotics from ZenRobotics. The day began with a meeting at ZenRobotics' head office and research centre in the centre of Helsinki. Tuomas Lukka explained a little more about the company and what they do "When I started this company we had a very forward thinking business plan and wanted to do something cool with robots. We realized that industrial robots were very good at making such things as automobiles, but these robots had reached a ceiling in terms of applications and no-one had been able to breach this and go beyond. We wanted to develop a new level of adaptability to the environment that no one else in robotics was doing commercially, so we decided to spend two years visiting various Finnish companies deliberately looking for problems and trouble-shooting them to try and come up with solutions. We visited many different types of businesses from bakeries and manufacturing companies, right through to waste sorting facilities."



Incoming waste at SUEZ Environnement, Helsinki



The robot identifies a piece of wood and grasps it



The easy user interface

"After a while it started to become apparent that there was one underlying key issue in robotics, the ability for a robot to grasp objects that are not always the same size and shape or texture and colour. This is when we realized that recycling was a really good area for this type of difficult application to be developed. A robot achieving a 99% success rate at these tasks was ideal, as the problem here is so much more complex than the manufacturing industry. At that point we decided to make a robot that sorts waste for recycling!"

fields of research and software development. We believe that the new 3rd generation 'trainable' ZenRobotics Recycler (ZRR) is a revolutionary product that is transforming the recycling industry. It is not just a product that you install to do something that was already been done, it is a product that you install to create new functions and bring more flexibility to your operation. With a relatively small unit and a modular system, this maintains lower operating costs than conventional plants. A smaller footprint allows for installation on smaller plots of land or existing facilities with smaller structures. It also gives you the option to build profitable smaller plants, processing anywhere from 30,000 tonnes of waste per year, in comparison to traditional larger plants processing much more."

"The system comprises a main sorting conveyor feeding the input material, a sensor unit containing multiple advanced sensors, and most importantly, the unique ZenRobotics Brain Control Software which understands what is happening on the conveyor belt and in-turn, accurately controls the robots. Each ZRR unit features one robot arm, incorporating a smart gripper which is capable of up to 2,000 picks/h. Within each ZRR arm there are four chutes where the robot drops the material. A typical installation comes with two robots sorting the waste. Being a modular system, more robots can be added if required. The robots are designed to be extremely durable and to survive in the harsh environment of a waste sorting station, and the parts that do wear can be easily changed without major disruption to the line."

The new third generation of robots:

"Timo Taalas, CEO explained a little more about the new product, "We began to develop this new recycling system in 2009, and now have over 30 employees dedicated in the





The picked wood is dropped into a specific chute and sorted



Dr. Mac Borkowski, ZenRobotic Sales Director



The picked wood is dropped into a specific chute and sorted

"The different kinds of advanced sensors within the system provide the data through which the ZenRobotics brain control software communicates to our robots what is on the belt, right down to the type of material and colour of each object. These sensors include NIR, visual spectrum, RGB, metal detection, and 3D laser."

"The other very important issue is to teach the robot how to grasp the object, and this is achieved by training the robot, as you would a very young child. A child when picking new objects up would learn by trial and error on how best to grasp the object, and would remember the techniques that worked best with each type of object. This is exactly the same way in which our robots learn, and we have a training phase for the robots in each new environment, so that the AI has a clear understanding of what it is picking and how to do so successfully."

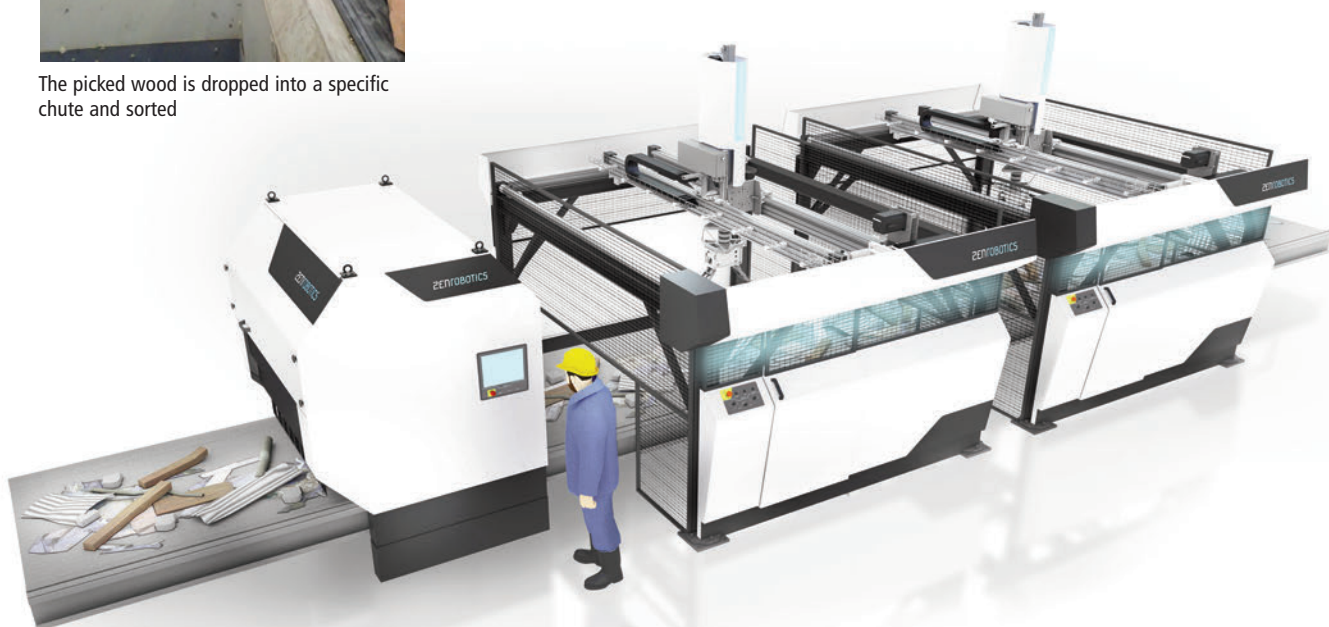
"The other critical part of this process is the gripper, which has to be extremely flexible in what it handles, from very light objects through to very heavy items with lots of different sizes and shapes in between. The gripper that we have developed can cope with very small objects right through to objects that are up to 1.5m long and 50cm wide, and with a weight of up to 20kg. The robots also approach each object slightly differently using the AI, dependant on what the data has provided, so for example, the robot would pick up a heavy object a little slower so that it doesn't slip out of its grip."

"Feeding the robots in the correct way also has a dramatic effect, so we advise on the process around this, using different sensors on the line and varying the speed of the line. A typical plant will initially have a screening and separation process, using a ballistic screen or alternative, and screening out the fines below 100mm. The 2D lightweight material is also screened out prior to picking, leaving the 3D material which is then fed to the robot. Before it is fed, with some plants it also makes sense to have a buffer area where the material can be stored before being fed to the robots. Using this system, different parts of the plant can be operated at different times of the day or night, and the robots typically perform at around 85db so could potentially operate 24hrs."

"Presentation of the material is really important. Material presented to the robots passes over a vibrating table to evenly present the 3D material making sorting more accurate and quicker."

The benefits:

"A huge benefit of the system is that the robots can sort multiple fractions in the same spot, allowing for multitasking, and very efficient waste sorting. Each robot unit has four chutes, so each robot can sort four different fractions. More chutes can be added if required. The system will sort construction and demolition (C&D) waste very effectively, but can also be used for commercial and industrial (C&I), mixed inert, scrap metals, mixed rigid plastics, A-wood, B-wood, pipes and tubes and plastic bags by colour. The system will also cope with multiple input streams, so the same plant could process C&D waste on one day followed by another different stream on the next day, by simply changing the settings in the user interface (UI)."





Incoming waste at SUEZ Environnement, Helsinki



The whole system can be controlled via tablet



SUEZ Environnement facility in Helsinki

"We have also added the ability for the user to train the robots themselves, by feeding them samples of new materials, allowing them full control over their system and their input streams. Also, as we continue to develop our ZenRobotics Brain Control Software and AI, all our clients will get the benefit by having their software monitored and updated remotely under our software plan. The whole system can also be monitored and controlled via a tablet or smartphone by our clients, allowing for key statistics to be delivered directly in real-time. Our clients include SUEZ Environnement in Finland, Baetsen Recycling in the Netherlands, Eberhard in Switzerland, the Shitara Group in Japan, Veolia in France and ML Environmental in the USA."

The on-site visit:

We were then treated to an on-site visit to the nearby SUEZ Environnement facility in Helsinki, where we were able to see the system and robots working in a real-time environment. The waste facility included two ZRR units, with three robots handling 5tph which included the C&D fractions of metal, wood, stone and plastic. The results were very impressive, with the robots recovering over 80% of material on the line.

Mac Borkowski, Sales Director gave us an insight into how they plan to help new clients in the UK, "We are now working strategically with the Blue Group in the UK who are our chosen dealer for ZenRobotics, they have been tasked to provide a total solution to design new waste MRF plants which will recover up to 90% of material. Material feed to the robots is extremely important in how it is presented, so the overall plant design is key."

"Blue Group and their recycling division BlueMac have developed various technologies that work seamlessly with our robots to provide an effective process. Blue and BlueMac can work with you to integrate the ZenRobotics systems into your existing plant, or they can develop a new plant for you from the ground up. A typical plant could include key machines and processes such as material handlers, ballistic separation, vibrating screens, conveyor systems, shredders, trommels, star-screens, hoppers, bunkers, feeders, balers and vibrating tables, all of which Blue and BlueMac can supply or manufacture through their breadth of range."

"Assembled in a bespoke package, Blue and BlueMac can provide a full turn-key solution which includes our ZenRobotics Recycler working in perfect synergy with the rest of the site and the material flow."

For more information on ZenRobotics please visit www.zenrobotics.com and to learn more about how Blue Group and BlueMac can help you with a bespoke solution in the UK, please visit www.blue-group.com or call 0345 217 8755.



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RUD Chains Ltd is one of the world's largest manufacturers of round steel chains, producing top quality chain components and systems for a wide variety of markets and applications. They supply the bulk materials industry with a range of: complete bucket elevators and spare parts, complete conveyor systems and drive systems for bulk materials handling.

RUD BULKOS complete bucket elevators are typically suited for vertical conveying applications for powdery, granular, lumpy and high temperature bulk materials. They are used across a range of industries for the vertical transportation of goods such as: fertiliser, potash and salt, cement, sand and gravel, among other materials.

The bucket elevator range consists of BULKOS round steel chain type bucket elevators, high performance central chain bucket elevators and belt type bucket elevators. Due to RUD's wealth of experience transporting cement, lime, gypsum, salt and fertiliser, all

their bucket elevator components are perfectly coordinated to provide a reliable, long-lasting system.

BULKOS round steel chain bucket elevators enables handling of materials under the toughest of conditions, such as high temperatures or bulk flow rates. The elevator offers multiple link bucket attachments which are extremely robust and ensures a high level of safety during the transportation of goods.

High performance central chain bucket elevators are used to provide maximum conveying capabilities in extreme conditions, and to meet high speed conveying requirements.

BULKOS belt type bucket elevators are reinforced with textile or steel inlays. They ensure easy transportation of materials, even at the highest of conveying heights.

The transportation of bulk materials is a major challenge, system availability and reliability are often overlooked and quick solutions are used which only secures limited success. RUD are a valued supplier and experienced manufacturer supplying a selection of conveyor and conveying systems for the bulk materials industry.



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Integration is the key to success for the National Fluid Power Centre

The National Fluid Power Centre (NFPC) prides itself on its reputation as a global training provider for those involved in the maintenance and management of fluid power systems and control and is recognised as the leader in industry training and development for integrated systems engineering.

The NFPC is fully approved by a number of international companies including such names as Bosch Rexroth, Hydac Technologies, Parker Hannifin, Eaton, Husco International, Danfoss, Moog, MP Filtri, Sun Hydraulics, Pall Filtration, Webtec Products, Shell Lubricants, Kawasaki Precision Machinery & Witham Group and the Centre has an advisory board with a membership of over 60 companies, making it the ultimate centre for knowledge, education and future industry development bringing together hydraulics, pneumatics, electronics and control.

The HUB went along to take a detailed tour of the centre and caught up with John R Savage, Director of the NFPC. "The business here is all about integrated systems engineering, bringing together hydraulics and pneumatics with electronics and control to give our customers a complete training package that guarantees that the workforce are able to manage things at a systems level."

"Industry is no longer looking for people with a single skill, it is looking for people with an integrated systems approach, as the systems may well involve hydraulics, pneumatics, electronics and some form of control. Bringing together these different elements seamlessly is what the NFPC is all about, we are dedicated to professional training that enables people to be totally capable, able and competent around the whole system, whether that be a 30 tonne excavator, wheeled loader or recycling plant."

"The facility here was opened in 2001 by the President of CETOP Signor Amadio Bolzani, Paul Cook the President of The British Fluid Power Association (BFPA) and the Managing Director of Bosch Rexroth (UK). The cost of the initial building was in the region of £2m, and we now have over £3m of the latest technology within it, possibly the best practical training facilities in Europe."

Technical centre 3





John R Savage, Director, Sue Smith, Business Development Manager and Adrian Hudson, Control Systems Manager for The National Fluid Power Centre

"This is all made possible by our dedicated Advisory Board, with many companies supplying the latest products to us so that we are completely up to date with technology. The facility has a very 'hands-on' approach and we encourage learning on the real thing, replicating things here that engineers and technicians can effectively do in their workplace, so that when they return to work they apply their maintenance techniques better than ever before whilst following safe working procedures. Since opening, around 28,000 engineers and technicians have attended the NFPC."

"Recently we have set-up satellite centres around the UK, based on the sites of our advisory members. These 23 centres have become a very effective feed into the NFPC for the more advanced work and training. Bespoke training is also something that we offer placing our training engineers onsite to specifically investigate customers training needs around their own equipment, then developing a training course around those needs and finally delivering that training. An example of this is Komatsu UK, where we have provided bespoke training for nearly 20yrs."

"We are very keen on competence levels, and we best describe this as a combination of skills and knowledge to carry out a particular task in a given amount of time, meeting a set of standards, whilst following safe working procedures, and with repeatability."

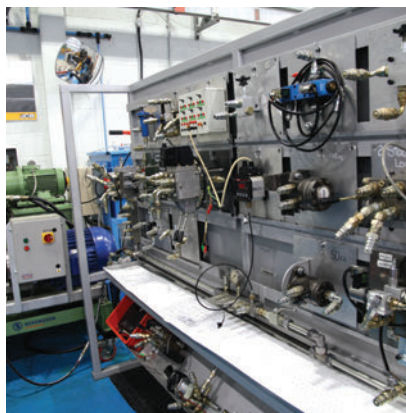
"Our goal is to educate, train and develop key skills, but also assess their competence. Here at the NFPC we are currently building more and more competence based assessments into our standard training programmes, making us unique in the marketplace. We are also committed to continued professional development and in September 2016 we will be launching individual candidate CPD record booklets, allowing for complete monitoring of competence and skills, as the different steps are taken within the programme, giving candidates an NFPC stamp for each stage successfully achieved. This will be extremely valuable for employees and ultimately help employers with their own quality systems in monitoring staff development."

The NFPC is a BFA Certified CETOP Education Centre and delivers a range of competence based training programmes following CETOP Recommendations.

At present a candidate passes through several stages to gain a Level 3 CETOP qualification, and this includes stage 1 and 2 hydraulics. It usually takes around 3 years to gain a level 3 CETOP qualification, the highest qualification currently awarded by CETOP.

CETOP is the umbrella organisation throughout Europe for all Fluid Power Trade Associations and within the UK, The British Fluid Power Association is the CETOP member, promoting CETOP Education Recommendations CETOP stands for 'commission European transmission oil and pneumatics'.

John further commented "As an organisation we are now looking at supporting apprenticeship programmes, and will be launching a new range of courses under the banner of "Foundation in Integrated Systems Engineering". We believe that where apprentices are transitioning between an engineering programme and new place of work, it is an ideal time to train them by means of the new 'National Fluid Power Centre integrated fluid power systems foundation programme' which consists of hydraulics, pneumatics, electronics and control, giving them a good foundation in integrated systems engineering." >



We asked John about the growing mobile marketplace "We are doing more and more business within the mobile sector. Once again companies want their staff to be trained at a systems level with a knowledge of the machine hydraulic system, on-board controls, engine management system and microprocessor controls. This is where integrated control systems have become key in the development of new machines. We must therefore ensure that today's Engineers are able to match this technology with their knowledge and skills. This is where the NFPC plays a vital role both present and in the future in matching human skills and knowledge to changes in technology."

The Facility

We were given a complete guided tour of the facility. The building is extremely well organised and is split into several different training areas. The first thing to note is that all the team at the NFPC have come from UK industry and so have lots of experience and expertise, and the ability to transfer skills and knowledge effectively. The centre is very flexible in the timing of courses, working with companies to tailor dates that work with their availability, and are quite happy to run courses at weekends and run courses with small numbers if required.

Technical centre 1 is a very flexible space which can be turned into various layouts to suit the training. It includes bespoke hydraulic training rigs supplied by Bosch Rexroth allowing candidates to move straight from classroom to lab within seconds to get 'hands-on' with the training.

After graduating Technical centre 1, candidates move to Technical centre 2 which has been developed to cover the maintenance and management of fluid power systems, including fault diagnosis and prevention. This space contains a special 'mobile equipment' specific training area featuring a fully operational CAT engine transmission system from a 906 shovel loader which can be interfaced with a Danfoss or Parker micro-processor to give a real-time learning environment for candidates. A fully operational small JCB excavator is also available with contamination monitoring equipment and potentiometers. There is an area specifically for oil analysis to make sure contamination control and prevention is fully covered, including microscopes and automatic particle counters.

Moving upstairs we were presented with Technical centre 3, an exciting world of integrated fluid power systems and control. Here candidates get hands-on with electronic control interfaces, where electro hydraulics and electro pneumatics are covered in great depth. Companies who support and are

involved within this area include SICK UK, SMC Pneumatics, ifm electronics, Emerson Industrial Automation, Deep Sea Electronics, Star, Hydrastore, Balluff, Rexroth, Siemens, MOOG, Hydac, Danfoss, Eaton, Parker, Rockwell Automation, ABB and Mitsubishi.

Five Year Plan

The exciting, potential five year plan for the NFPC is to develop a brand new state of the art engineering based training facility which will integrate seamlessly with the current building, allowing for massive increased capacity and extra parking. This new building will be designed to add more of the electronics element to the training facility as the centre continues to grow and lead the way in integrated systems engineering.

John ended the tour by summing their success up "We are proud that we have successfully managed to get major international companies, who are competitors, under one roof, working together, supporting The National Fluid Power Centre, and placing thousands of pounds worth of high tech equipment within it to benefit the whole industry. Our whole Advisory Board are also passionate about education and training and working with us to make this a very unique operation indeed."

Industry Open Day 2017

We also talked with Sue Smith, Business Development Manager about the centres upcoming open day in 2017.

"Attracting more than 70 UK and international companies, the NFPC open day is a showcase for the centre, a platform for business networking and an educational event with four key speakers from industry delivering professional technical lectures. We had over 300 visitors in 2016 and reports from our exhibitors confirmed to us that business was actually initiated at the event, in fact quite a few exhibitors made the comment that for the minimal investment involved, the return was far better than some larger exhibitions that they had attended. The event in 2017 is on the 15th February and we will have a 66m marquee in front of the building for all of our exhibitors. We look forward to another very successful event."

For more information on The National Fluid Power Centre please call Sue Smith on 01909 504722 or visit us online at www.nfpc.co.uk

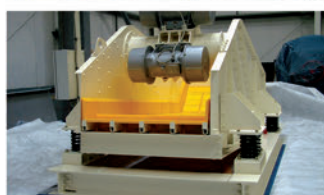




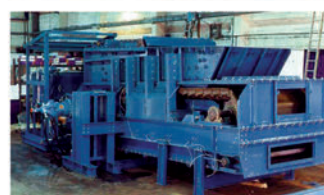
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July 16

RWM 2016 Show Preview

QUARRYING - Mobile and static crushing and screening equipment. Crusher spare and wear parts. Screens and screen media.

RECYCLING - Shredders, Grinders & associated technology. Recycling of plastics.

BULK HANDLING - IBCs and FIBCs - technology for weighing, filling and processing screw, pipe and pneumatic Conveyors, silos, blowers, valves and discharge systems.

Editorial copy deadline 5th July 2016

Advert copy deadline 15th July 2016

September 16

QUARRYING - Construction and quarrying machine control systems, survey & positioning equipment and associated technologies. Pumps & associated technology. Dust Suppression and Control.

RECYCLING - MRF's and associated equipment in the waste process line, including trommels, magnets, air and ballistic separation technology. Recycled secondary aggregates.

BULK HANDLING - Port equipment, logistics, railways & associated technologies in the movement of bulk materials.

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November 16

**IRISH Special -
Spotlight on Ireland**

POLLUTEC 2016 Show Preview

QUARRYING - Asphalt & Concrete plant + associated equipment. Concrete retaining walls & storage solutions.

RECYCLING - Compaction, baling and wrapping equipment - waste compactors, cardboard balers, waste balers, vertical balers, horizontal balers, baling twine, balers, mill balers, baling equipment.

BULK HANDLING - Biomass industry equipment and technology. Processing of Energy from Waste.

Editorial copy deadline 5th November 2016

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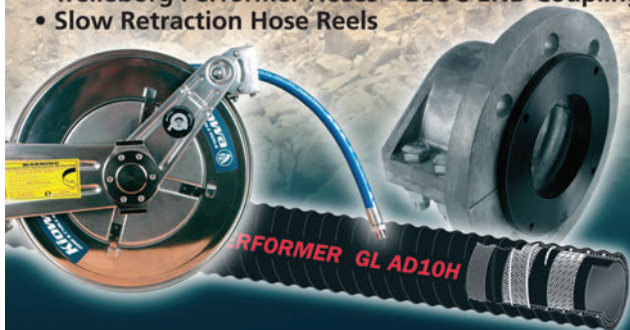
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