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January 2017 | Issue 42



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A new year beckons...

Welcome to issue 41; the start of a new year and our first major exhibition preview of 2017. This edition gives an insight into the major UK/Ireland players who will be at the CONEXPO-CON/AGG show which will be held in Las Vegas from 7th to 11th March.

CONEXPO-CON/AGG and the co-located IFPE exhibitions will spotlight the latest technologies, products and best practices for the construction and construction materials and fluid power/power transmission/motion control industries.

One of the largest construction shows in the world, the CONEXPO team are hosting their biggest show ever in 2017. Combining seven different lots and halls (and the new Tech Experience) the show will be spread over 2,500,000 net square feet exhibit space (232,000 meters) with 2,500-plus exhibitors expected.

As media partner for this year the full HUB team will be present with the HUB issue 41 being available at the show from the media stand.

Back in the UK our team will also be attending the National Fluid Power Centre (NFPC UK) who will be hosting their annual 'Flagship' Industry Open Day event on Wednesday 15th February 2017. Held at the National Fluid Power Centre UK, in Workop, the event will see some 85+ prestigious companies exhibiting on the day with an expected overall footfall of 400 visitors.

It's shaping up to be a very busy year for the HUB team as we are Media Partners for several key shows - Plantworx, Waste'17, SteinExpo (Germany) and the RWM.

John Edwards
Editor



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On to a washing winner

Oliver Donnelly, Terex Washing Systems' new global business line director, on plans to realise huge washing market potential.



Oliver Donnelly with John Garrison Terex CEO & President

After a highly successful time as Powerscreen's product line manager, Oliver Donnelly has become Terex Washing Systems' new global business line director. He commented 'the growing worldwide market for advanced washing and recycling equipment solutions attracted me to his new senior role'

As a former lead engineer for Powerscreen and Terex Mobile branded heavy duty screens and, until seven months ago, as Powerscreen's global product line manager, Oliver Donnelly conveys succinctly and with great enthusiasm anything worthwhile a potential customer would want to know about the many crushing and screening machines he's been associated with during his time working for one of the quarrying equipment sector's global heavyweight corporations.

Having taken on a new role as business line director for Terex Washing Systems (TWS) in May 2016, Donnelly is just as passionate about his new brands' product ranges and, crucially, of their immense demand growth potential.

"I'd had a 12-year history with Powerscreen, with the last three years being a product management role, with a strong element of commercial responsibility, integrating sales with the technical side of the business," explains Donnelly. "Having been in the role three years, some of the challenge had gone out of it. I was always passionate about the Powerscreen brand, and still am, but the Terex Washing Systems position was a massive opportunity for me to further my career and to create a new challenge for myself in building the business."

"The TWS product range side of things was attractive as well. It's a different product range [from crushers and screens], and different from an application standpoint. I'm very interested in how the machines work, what they do, and how they bring value to customers."

"The Washing business has given me a new outlook – a new group of products to analyse and understand. I want to do what we did at Powerscreen to an extent in terms of maturing the business, and creating better sales tools to help customers understand the significant return on investment that our equipment can deliver."

"There's massive potential to grow the business. In the quarrying industry, whilst washing has been around a long time, I think in terms of its overall development, it's in its infancy. There's more and more things driving a requirement for washing, such as changes in legislation and regulations. For example, in Germany and Austria now there's a drive towards off-site recycling at dedicated recycling centres. Typically to get the recycled [aggregate] material to spec, you need to wash."

"One asset we have is one of the best network of distributors globally. Long-established companies that understand the materials processing segment very well. Terex is also very forward-looking in terms of investing in their businesses. They understand that washing is a growing area, making them happy to invest in our products. To me, that was part of the attraction of going into this role."

Donnelly believes parts of the Middle East, India and Africa offer excellent growth potential for TWS's product portfolio. "We need to be active in these markets," he stresses.

TWS staged two world premieres at the prestigious Hillhead 2016 exhibition at Tarmac's Hillhead quarry near Buxton, England: the unveiling of the new AggreScalp scalping unit and new FM UltraFines recovery system, both said to boost any quarry operation's bottom line.

Donnelly stresses that both the AggreScalp™ and FM UltraFines™ models are also designed to achieve optimum reliability and performance. "We want to make sure that all our machines delivered onto the market meet the high performance expectations that customers have," he adds.

"We want to eventually be able to offer a full solution to our customer base in terms of products from start to finish. We also want to grow our capabilities in terms of offering a turnkey solution to customers in terms of plant installations. This will be a key focus area over the next couple of years," explains Donnelly.

As part of its development of the TWS business, Terex has recently invested heavily in a new wear parts facility near its Materials Processing business segment HQ in Dungannon, Northern Ireland. The company has also made a further sizeable investment in the Dungannon HQ's TWS and Terex MPS manufacturing capability.

"We're able to hold a greater inventory of parts. We have more sophisticated systems for picking and packing, and shorter response times from when a wear parts order comes in and when it's dispatched out to the customer" says Donnelly. "There's also been a big investment in the people side of things. We're communicating more effectively with our distributors, so they know exactly what parts they need to be stocking to offer a very quick turnaround to the end user."

On the manufacturing facility investment, Donnelly continues: "We have a completely new high bay facility designed specifically around our



products which facilitates full build and test prior to despatch we also have a suite of new headquarter offices to accommodate TWS's very strong team. The team is fully invigorated by these investments in the business."

"With the investment in our manufacturing facility, we can operate with shorter customer lead times. It varies from model to model, but a 20-25% shorter lead time would be

reasonably indicative of how it should operate. We also have a better facility to fully build all our modular models, like the AggreSand 206, so that it can arrive at the customer site and everything fits together seamlessly."

In addition to his new senior global TWS role, Donnelly, who holds a First Class Master's Degree in Aeronautical Engineering from Queen's University, Belfast, has also become Terex Minerals Processing Systems (Terex MPS) business line director for Europe, Africa & Russia. "From the dry crushing and screening product side of things, I'm very familiar with what Terex MPS has from my Powerscreen days," says Donnelly.

"The route to market for Terex MPS and Terex Washing Systems is very similar. It's a project or application-based sell and quite a technical sell compared to tracked mobile [crushing and screening equipment]. Each intended customer application is looked at in its own right and we come up with an equipment solution for that. Because there's such similarity in their route to market,

there's a lot of synergies between these two business segments. If we can leverage those synergies and go to market in a more efficient manner, it will grow both businesses."

Terex MPS has a strong history in North America with, among others, its Cedarapids and Simplicity crushing and screening product ranges traditionally being manufactured and selling well in the United States.

"A lot of the Terex MPS products are developed in the US, so in my role I will be making sure I and colleagues in Europe, Russia and Africa feed into what's happening going forward. There's always differences to what an American customer will think is great for their application, and what a European, Russian or African customer wants," explains Donnelly.

With constant TWS and Terex MPS product and distributor network development in store, the ambitious, likeable and highly knowledgeable Donnelly has come to the brands at just the right time.



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Volvo Construction Equipment



Euro Auctions appointed to dispose of assets of HS Realisations Ltd (previously known as Hewden Stuart Ltd) in Administration

Euro Auctions, Europe's largest auctioneers of industrial plant, construction machinery and agricultural equipment, has been appointed by S.J. Woodward and C.P. Dempster of Ernst & Young LLP, the Joint Administrators, to dispose of the cranes and general construction equipment assets of the hire company previously known as Hewden Stuart Ltd that entered administration on 22nd November 2016.

Euro Auctions has been working closely with the Joint Administrators since the appointment to locate, catalogue and assess all assets of the business, tracking cranes and construction equipment and in many cases assisting in repatriating them to a secure depot.



Sam Woodward, Joint Administrator, comments: "We are delighted to be working with Euro Auctions on the disposal of the crane and construction machinery assets of Hewden. We look forward to working closely with the Euro Auctions team over the coming months and maximising returns for creditors."

"All the equipment going under the hammer has been exceptionally well maintained and we expect real interest as it's all being offered without reserve so buyers could pick up some real quality bargains," comments Euro Auctions' David Betts.

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The disposal will be conducted in two phases commencing in early January 2017 and is expected to be completed with the first four months of 2017.

Phase #1 - Cranes

Euro Auctions will start the disposal process of selling by tender approximately 127 mixed cranes and pieces of lifting equipment that are now securely stored at various depots of the Hewden business across the UK. The disposal sale will be conducted by tender and bidders expressing interest in participating in the sale can do so by contacting Euro Auctions on 0044 (0) 2882 898262. The full sale inventory will be posted on the Euro Auctions website in due course.

Phase #2 - Construction Equipment

Euro Auctions will conduct the disposal of thousands of items of general construction equipment at a series of unreserved auctions to be conducted over a four month period commencing in early January. The sales will be held at Hewden depots across the UK in early January with the disposal culminating in a final sale at the Euro Auctions 60 acre sale site in Leeds later in 2017. The location of the various sales still needs to be confirmed but will be announced in due course. The inventory will include excavators, dumpers, rollers, telehandlers and other popular machinery. Special interest is expected in a large consignment of 2015 and 2016 machines, many of which are still in warranty.

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Major milestones for JCB products



JCB Power Products marked two special anniversaries with a cake big enough to feed the whole workforce.

It is 10 years since JCB Power Products produced and sold the first JCB generator to coincide with the launch of the JCB engine. It is also a year since the acquisition of major UK producer of diesel generators Broadcrown Ltd was completed.

The milestones were celebrated at JCB Power Products' plant in Hixon near Stafford by the employees who assembled on the shop floor to enjoy a slice from a giant cake baked in the shape of a generator.

Mark Turner, Group Managing Director – Business Operations, said: "This has been an exciting 12 months. When I look around the world where we now have generator businesses, it's evident that JCB Power Products will be a big part of our future."

JCB Power Products MD Jonathan Garnham said: "It is 10 years since JCB went into power generation to coincide with the launch of the four cylinder diesel engine. We grew the business quickly and with the opportunity for us to come together a year ago with Broadcrown, we have really started to go from strength to strength now."

 www.hub-4.com/directory/458

Hills Quarry Products starts the New Year with a fresh focus on health and safety

For the second year in a row Hills Quarry Products delayed the opening of all its sites on the first day back to work in the New Year to allow employees to participate in a special health and safety training session as part of the company's ongoing 'Safer for All' campaign.

Peter Andrew, Group director Hills Quarry Products, said: "Last year we made significant strides to improve health and safety standards at all our sites, highlighted by the award of the prestigious Sir Frank Davis Trophy."

Peter Andrew continued: "This year we have reviewed our achievements and set new health and safety targets for 2017 based on the feedback received from employees and independent health and safety auditors. By starting the New Year with these training sessions we are reinforcing our philosophy that health and safety will always be a top priority and we will continue to deliver improvements in employee safety and wellbeing."

The training sessions, including emergency procedures, Near Miss reporting and a review of safe systems of work, were held across operational sites in Wiltshire, Oxfordshire,



Gloucestershire, Berkshire, and Dorset where Hills operate sand and gravel quarries and ready-mixed concrete production plants.

The 'Safer for All' campaign, introduced at the beginning of 2015 following a company-wide health and safety culture survey, is aimed at ensuring that attitudes toward promoting a healthier and safer workplace remain a top priority for employees. To date the campaign has delivered significant results; including a 62.5% per cent drop in Hills' RIDDOR (Reporting of Injuries, Diseases and Dangerous Occurrences Regulations) reportable accidents. The third issue of the company's new 'Safer for All' magazine can be found online at www.hills-group.co.uk/media-centre/publications

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Rail movement of aggregates on the increase

Despite an overall fall in the volume of freight moved by rail in recent years, the aggregates industry has increased the proportion of its total output transported to market this way. This is expected to increase as more depots have recently opened and others are planned, reports BDS Marketing Research. These are some of the findings of a new sector report, published for the first time, by BDS, entitled "Estimated outputs of aggregates moved through rail depots in Great Britain".

"Since the recession, aggregates companies have increased the share of output moved by rail by over 65%" said Andy Sales, author of the report. "We are expecting this to increase in the next few years following the recent activity in new facilities being opened and planned."

The BDS report estimates that over 16 million tonnes of aggregates were transported to a network of over 70 separate rail depots in 2015. Facilities in the south east were the main recipient of this material, predominantly in the form of crushed rock, of which it has limited reserves. The region accounts for around 70% of the total volume handled at rail depots.

The ability to transfer road movements to the rail network is attractive to both aggregates companies and the Government as they each continue their efforts to improve their sustainability credentials and reductions in carbon emissions.

The report estimates the volumes and market shares of all of the companies operating aggregates rail depots by county, region and nationally. It also includes information on newly opened and planned rail depots.

www.bdsmarketing.co.uk.



www.hub-4.com/directory/106



DUO achieve landmark processing on the Aberdeen by-pass

The materials processing division of DUO (Europe) plc have recently achieved a landmark in processing on the Aberdeen by-pass. Operating in six locations along the 58 kilometres of the by-pass, a fleet of TEREX® Powerscreen Crushing & Screening equipment has processed 4 million tonnes of granite since the operation commenced in June 2015.

Luke Talbot – MD of DUO (Europe) plc, commented, "Working as one with our client AWPR we specifically built in flexibility within the extensive programme which has allowed us to successfully manage any production changes that have occurred. We are very pleased to have achieved this landmark of processing with TEREX® Powerscreen equipment."

The Balmedie to Tippetty section is scheduled to open by Spring 2017 with the remainder for completion at the end of 2017. The new by-pass will link the A90 at Stonehaven and Charleston, south of Aberdeen and Blackdog to the north. When complete, the new road is expected to carry more than 43,000 vehicles each day through its busiest sections.

DUO (Europe) plc is a market leading company who provides the Aggregate, Recycling and Material Handling Industries with a comprehensive package of complete processing solutions, including specific industrial applications for the Quarrying, Recycling, Bulk Handling Industries and Transport Infrastructure.



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Simon Ayling and Adrian Coleman outside the Master Magnets manufacturing facility in Redditch, UK.

Bunting Magnetics Co expands global operations with acquisition of UK - based Master Magnets Ltd

Bunting® Magnetics Co., the leader in magnet and magnetic equipment design, manufacturing and distribution, today announced that it has signed an agreement to acquire Master Magnets Ltd, a UK-based manufacturer of magnetic separation equipment. Based in Redditch, United Kingdom, Master Magnets Ltd provides a complete line of magnetic separation, recycling and metal detection equipment to several industries worldwide through a worldwide network of distributors. The acquisition will build on and complement Bunting Magnetics Co.'s global foundation already in place through broadened customer reach, new manufacturing capabilities and the opportunity to sell into new markets.

"We're thrilled to add Master Magnets Ltd to our family of companies," commented Bob Bunting, President & CEO, Bunting Magnetics Co. "We value the longstanding success of Master Magnets Ltd and are committed to sharing engineering and manufacturing strengths while providing their employees the resources they need to build on this success."

"Plus, Master Magnets Ltd perfectly complements Bunting Magnetics in terms of innovation, quality, products and providing magnetic solutions through individual components and complete systems. Joining forces decisively extends Bunting's status as a leading global supplier of magnetic equipment and is a significant milestone in the company's history," he added.

Simon Ayling, Managing Director of Bunting Magnetics Europe, who will assume operations management responsibility of this new division, said, "Master Magnets Ltd has deep customer relationships in new markets for us such as mining, quarrying and aggregate. We are especially excited to now be able offer a large range of ATEX approved electromagnets and mineral separation equipment, as well as the company being a recognised, trusted brand in magnetic separation which has remarkable products created by remarkable people. It's exciting to combine our strengths and expertise. Together, we have nearly 100 years of experience in magnetic separation."

Master Magnets Ltd was founded in 1978 and currently has 26 employees. The company designs, manufactures and services a complete line of industrial magnetic separation equipment including Eddy Current Separators, Permanent and Electro Magnets, including Overband Magnets, Drum Magnets and Suspension Magnets. The company also supplies a full range of Mineral Separation Equipment for customers all around the world. The company will continue to operate out of its Redditch, UK headquarters.

Adrian Coleman, General Manager, Master Magnets Ltd, said, "This acquisition is excellent news for the Master Magnets team, who are joining a company with international standing and a shared vision for growth. We will continue to focus on ensuring our UK operations perform seamlessly for our customers who will also benefit from this new partnership. We're excited for this new future that awaits Master Magnets as part of the Bunting family."

Terms of the deal are not disclosed.



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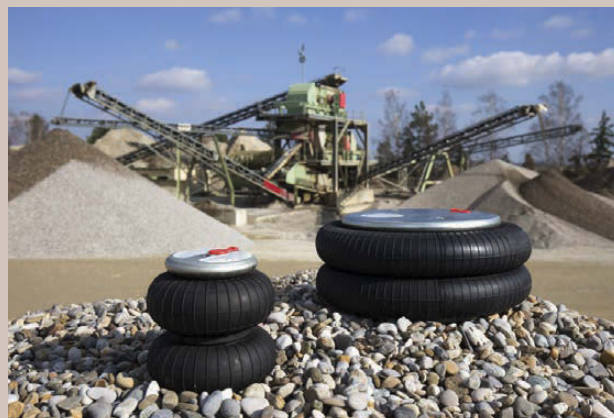
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Tema Machinery launch Air Suspension for Aggregate Screening Machines in the UK



Tema Machinery have launched the Steinhaus/LuCoTec air suspension System. The new suspension system for aggregate screening machines is user friendly and is easily retro-fitted.

Offering significantly reduced vibrations in the support structure the suspension system reduces noise level and provides

more throughput and better classification. The screen angle can be altered within certain parameters by changing the air pressure feed and discharge end.

Due to reduced energy consumption recovery of costs can be achieved in a short time.

Part of the Steinhaus/Siebtechnik group of companies, Tema Machinery are based in Woodford Halse, Northants and are a leading supplier of aggregate screens for the Quarrying Industry. Within their portfolio is a range of aggregate screens including the Liwell 'flip flow' screening machines, and the extremely efficient Delta screen.

www.hub-4.com/directory/12622

Tana Recycling Machinery (UK) Ltd have been appointed the position as sole dealer and distributor for all Tana products within the UK and Ireland

From 2017 Tana Recycling Machinery (UK) Ltd are now able to offer sales, hire, parts and service on the full range of Tana products with a focus on their friendly and knowledgeable team being able to offer suggestions, help and advice on material processed. Tana Recycling Machinery (UK) Ltd are based in Bentley, Doncaster and aim to provide a 'one-stop shop' for all clients' recycling machinery needs and provide a first class back up service to all new and existing machinery.

Their service team have spent the last 4 years working on the Tana machinery range and have gone through an extensive Tana training schedule, allowing them to offer a quick and effective solution to all service and warranty requirements across all machines. Tana Recycling

Machinery (UK) Ltd understands the importance and the value of having reliable working machinery onsite, and is committed to minimum client downtime.

To find out more about Tana Recycling Machinery (UK) Ltd please visit www.tanauk.com

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TEREX® Washing Systems marks special anniversary of key UK distributor - DUO Plc



L-R: Elaine Donaghy-Marketing Manager-TWS, Gemma McKay-Marketing Executive-TWS, Michella Jones-Group Finance Director-DUO, Alex Moss-CEO-DUO, John Bracken-Group Operations Director-DUO, Luke Talbot-Group MD-DUO.

One of TEREX® Washing Systems key distributors in the UK is celebrating a special anniversary, with 35 years in the aggregate processing industry.

Alex Moss - MD, of Coventry based DUO (Europe) Plc has a history that dates to 1981 when Powerscreen Washing Systems, an independent dealer in England and Wales for Powerscreen® aggregate washing equipment, was founded.

After establishing itself as a successful Powerscreen dealer, Powerscreen Washing Systems rebranded in 2005 as DUO (Europe) Plc and now comprises of three main business areas; equipment sales, contract processing, and manufacturing. Supporting equipment sales, DUO also offer pre-used equipment and a comprehensive parts & service package.

The manufacturing element of DUO was added through the acquisition of the LJH Group in 2004. Established in 1964, Somerset based LJH Group was originally a family-owned specialist engineering company which today offers a complete package; from initial design, manufacture, installation and full project support to the Bulk Handling Industries.

A comprehensive portfolio:

From its origins as a Powerscreen dealer, DUO has become a distributor for several market leading European and USA equipment manufacturers. This blend of experience and brand portfolio, together with the philosophy of DUO - 'the customer comes first' makes them an important player within the industries they serve.

Today, DUO (Europe) Plc is a market leading company that provides the Aggregate, Recycling and Material Handling Industries with a comprehensive package of complete processing solutions, including specific industrial applications for the Quarrying, Recycling, Bulk Handling Industries and Transport Infrastructure.

Overseas success:

In a recent discussion at Hillhead Alex looked back on his many years in the business and how the DUO brand has expanded beyond the shores of the UK into Trinidad and Tobago and most recently Africa.

Alex, commented, "When the world stopped turning back in 2009 we looked at other opportunities in countries such as Kenya and Ghana, which with our knowledge of equipment and applications soon landed us considerable business. This year marks our tenth year in Africa a region in which we have successfully sold significant numbers of equipment from our product portfolio."

The DUO business is built around three TEREX® brands – TEREX® Washing Systems, TEREX® Minerals Processing Systems and Powerscreen. The modular range has proved very successful in the UK market with numerous installations for blue chip companies such as CEMEX, Hanson, CRH and Lafarge.

Alex, continued, "The recycling market in the UK is also hugely important to us – we have numerous installations working very hard for N.R.S, Rob Collard, Walsh and numerous others. Our in-house contracting division - DMP (DUO Minerals Processing) provides equipment on a cost per ton/basis, which is appealing to companies in terms of cash flow, manpower and on-site industry expertise."

Recently this division achieved a landmark in processing on the Aberdeen by-pass. Operating in six locations along the 58 kilometres of the by-pass, a fleet of TEREX® Powerscreen Crushing & Screening equipment has processed 4 million tonnes of granite since the operation commenced in June 2015.

Motorsport sponsorship:

Away from the aggregates business Alex has another passion - Motorsport, where DUO sponsor several drivers.

DUO consistently figure prominently in the British Touring Car Championship and jointly sponsor a BMW WSR car with leading Hampshire recycling company - R. Collard and Motorbase Performance. This sponsored combination recently had sporting success with driver Mat Jackson finishing a commendable 3rd in a fiercely competitive British Touring Car Championship in 2016.



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The test of time pays dividends at North Lincs Aggregates

North Lincs Aggregates, a privately owned company operating out of the Isle of Axholme has purchased three new machines with a further two on order from Volvo Construction Equipment for the first time thanks to the performance and reliability of operating older Volvo shovels and dumptrucks the company has run since setting up at their Cove Farm facility near Doncaster eighteen months ago.

The trio of machines comprises of an L150H loading shovel complete with a 4.4m³ re-handling bucket, a 25 tonne EC250E crawler excavator and an A30G articulated hauler with a 27.5tonne carrying capacity. The new arrivals join older Volvo machines that have been operating at the Cove Farm quarry since the company commenced operations and were chosen primarily due to the good reliability and performance of the existing kit. "The older machines have certainly proved themselves but as we continue to increase our production both at Cove Farm and other facilities it became important that we took the step to invest in new state of the art equipment," comments Managing Director Richard Mills. "Purchasing new is the way forward to benefit from equipment offering better fuel efficiency, productivity along with other features such as telematics and machine monitoring systems and then benefit from the anticipated high residual values in 3 to 4 years-time," he continues.



The new EC250E has been put in charge of extracting silica sand loading the new A30G alongside two existing A30C trucks which then run the material to the processing plant.

Powered by an 8 litre Volvo Stage IV engine developing 216 nett hp the 25 tonne excavator has plenty of reach and dig depth to extract material from the benches.

Equipped with a 6m boom and 2.97m dipper arm the machine boasts a generous dig depth of just over 7m and a forward reach of 10.1m with excellent across carriage stability giving a lift capacity of 3.5 tonnes at maximum reach.

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



With a carrying capacity of 28 tonnes and heaped capacity of 17.5m³ the Volvo A30G also meets the requirements of Stage IV final emissions legislation being powered by an electronically controlled, six cylinder 264kW turbo charged Volvo V-ACT diesel engine. This features high torque at low engine speeds, resulting in good fuel efficiency and high performance. Purpose built by Volvo, the engine is designed to exactly match the Volvo drive train, ensuring the best use of power and torque, even in tough working conditions. The new 30 tonne articulated hauler has been supplied to North Lincs Aggregates complete with full cantilever tailgate to maximise the load carrying capacity of the truck.

The new L150H loading shovel has been put in charge of loading and blending stock piled material into the processing plant. It again benefits from Volvo designed and manufactured driveline components designed to offer considerable fuel savings each shift with a 13 litre 300hp Volvo stage IV engine. One of the key features is that a maximum torque of 1317Nm is achieved at just 1450rpm and the resultant fuel savings are further enhanced by the Volvo Eco pedal encouraging the operator to run the machine at its optimum rpm in the engine's torque curve.

All three machines are fitted with CareTrack as standard, which is Volvo's telematics system that enables remote monitoring of a wide range of machine functions (e.g. location, fuel consumption, service reminders etc.) thus optimizing customer operations.

Besides their main operating duties extracting and loading material at North Lincs Aggregates' facilities, the machines will also be utilised on external muck shifting and extraction contracts for private clients. A further order is in place for another L150H loading shovel and an A30G articulated hauler which are due for delivery in September. The company also runs a busy bulk haulage fleet enhancing the services it offers its customers.

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.



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SCS Polystep Modular System for Tarmac Burnley Wharf



Tarmac Burnley Wharf is located on the River Itchen in Southampton, processing sand marine dredged sand and gravel. The operation produces 40mm, 20mm, 10mm and grit sand for use in concrete products, supply of ready mixed concrete plants and direct sand and aggregate sales.

The current static plant was commissioned in 2002 to handle approximately 400 tph dependant on the variance in dredged material. This material is transported to site by ship of between 2500-5000 tonnes of product at a time, taking between 3 and 5 hours to discharge.

The dredgers self-discharge to a stockpile which is then fed via a loader to the static plant, where a single deck scalping screen makes the first separation. This screen separates the -40mm, +40 to -150mm and rejects the +150mm. The +40 to -150mm is fed to a crusher with the product being refed back to the scalping screen for reprocessing. The -40mm is fed to a dual stream screening circuit the first of which are a pair of double deck screens that produce the Grit Sand and 10mm final products, with the -40 to +10mm continuing on to a pair of single deck screens producing the 20mm and 40mm aggregates.

The decision was taken by Tarmac to replace the existing Niagara E12, 20' x 5' single deck scalping screen after a period of consideration Hewitt Robins were chosen to replace the screen along with feed and discharge chute work as a turnkey package. Under Tarmac's requirements the replacement 1.5m x 6m single deck screen was to be supplied with new screen media and as they were more than satisfied with their current Polystep modular system supplied by SCS as previously installed to the original Niagara screen.

The Polystep modular system is a simple robust arrangement, one of its biggest advantages being in it only has one size of module that can be supplied with different aperture sizes, and the benefits of this is that identification of the replacement modules is very easy and large stock holdings are not required.

The system is simple to install, steel profiles are fixed across the width of the screen at approximately 600mm intervals, these beaded metal profile allow the Polystep modules to be knocked down onto them and clip into place. Working down the screen the previous row of modules clamp in the next row by overlapping them which also introduces a step into the system, hence where the name of the system comes from. Once the modules are in place the side liners can be bolted to the side plates, these have slotted holes to allow for adjustment. To replace a worn modules it is simply levered up from under the discharge end of the module.

The Polystep modular system in this case has only five different parts, which includes three different modules, two are because there are two different products being produced through the screen and there are a few blank near the feed end where the material impacts on the screen media, the side liners and the beaded metal profiles. In this particular case, Tarmac requested that the profiles be bolted in position so that they could be easily replaced if worn. By not over complicating the design, it simplifies maintenance so there is less chance of making mistakes in the future causing issues with gradings.

The screen and chute work were supplied with various wear resistant linings. Both the screen cross beams and chute work were protected with bonded rubber linings, something that SCS specialise in, either for onsite installation or in its factory. The screen was also fitted with liners for the feed tray and discharge lips manufactured from steel backed rubber.

Currently SCS supplies Burnley Wharf with steel backed rubber chute liners which are manufactured from stocked 2m x 1m sheets, that are then cut to size and drilled and cored to suit, the standard sheets are available in three different thickness 15+3, 25+5 and 45+5mm.

SCS is solely based in the UK where it designs, manufactures and supplies its range of polyurethane and rubber screen media, lining products, scrapers and other ancillary products. SCS prides itself with customer service, technical backup and delivery times that are second to none. So if you want to know more please call us on 01788 55 33 00 or email us on sales@scsrugby.co.uk



www.hub-4.com/directory/763

Riddle Brothers invest in a Finlay J-1170 supplied by Ormonde Machinery



L to R Robert Riddle and Raymond Murphy

Nestled in the foothills of the Sperrins Mountains is the small market village of Donemana. Industry is long associated with the area, you only have to take a trip to the local Silverbrook Mill to revisit the restored corn, flax and saw mills that were once a thriving part of the local economy. Today another type of industry is flourishing, quarrying, contract crushing, plant hire and civil engineering as carried out by Riddle Brothers.

Established by Robert and David Riddles in 2001, the business originally began with a sand and gravel pit but soon evolved into contract crushing, plant hire and involvement in civil engineering projects in Northern & Southern Ireland. In 2006 the company opened its second sand and gravel pit and despite the challenging economic headwinds of the following years, the company are going from strength to strength with all aspects of their business.

Robert Riddles has a longstanding relationship with the Finlay brand, with an investment in a Finlay sand washing plant at the start up stage of the business. Additionally, the company has three mobile Finlay plants, with the most recent addition being a new Finlay J-1170 high-performance primary mobile jaw crusher purchased this year from Ormonde Machinery.

Commenting on their recent purchase from Ormonde Machinery, Robert Riddles says 'The Finlay J-1170 Jaw Crusher has proven to be an excellent investment for us, further bolstering our mobile plant hire & contracts division. We are very impressed by the overall build quality, serviceability and user friendliness of the machine. In particular, we find the T-Link Telematics remote monitoring system a very useful management tool allowing us to monitor performance of the J-1170 as and when required from any location. We looked at the various suppliers in the market for this size of jaw crusher but are pleased we opted for the FINLAY J-1170 from Ormonde Machinery. Their back up is second to none.'

Given the range of projects and applications that Riddles Brothers are involved with, the Finlay J-1170 Jaw Crusher is proving to be an excellent asset to the company's ongoing operations. The user friendly features on the J-1170 mean that customer demands for varying product types can be met quickly and efficiently with good rates of production being achieved. Whether it be a contract to produce 60,000 tonnes of 4" down or crush demolition waste to make recycled fill material, the J-1170 is set up to respond to the application demands.

Riddles Bros. are well established in the contract crushing business in Ireland and continue to invest in new equipment

to meet the growing demand for aggregates as the construction sector improves across the island.

The 49 tonne transport weight and compact dimensions of the Finlay J-1170 mean savings for the company with lower transport costs between crushing sites. Set-up and fold down times are also speedier with the hydraulically folding sides and a hydraulic self-locking mechanism on the 9.6m³ hopper.

Safety continues to be a key consideration for operators, and the J-1170 has a robust and intelligent chassis design, with good clearance on both ends, which enables easy loading onto all transport trailers.

When it came to making a decision about what machine to buy, a key factor was the long running relationship with Raymond Murphy from Ormonde Machinery, with his extensive knowledge and experience in the industry. Riddles as well as having a long standing trust in the robust quality of Finlay machines, were very much influenced by the commitment to innovation that the company has demonstrated, particularly in the areas of telematics. T-Link is a remote monitoring and fleet management system that combines inbuilt Canbus control systems with satellite positioning and telematics software. T-Link can help remotely monitor and manage your fleet and thereby assist with growing your business.



Terex Finlay J1170



Riddle Brothers Truck



company were keen to work a partner that understand their needs and has the resources and know how to provide the solutions. With over 50 years' combined working experience in the construction, mining, quarrying and recycling industries, Ormonde Machinery has established a strong name and market presence.

"We have developed a very strong working relationship with Ormonde Machinery, we know that if our machine needs parts or servicing the technical and sales team will be on hand quickly and efficiently to deal with our needs. With locations and personnel both in Northern & Southern Ireland the company is well placed to meet our demands wherever we are in the country."

T-Link enables you to stay connected and keep track of your equipment, monitor work progress, manage logistics, access critical machine information, analyse and optimise machine performance and perform remote operator support.

"With rising fuel costs and continual output targets, T-Link is a huge asset in being able to monitor those elements, it allows us to see at a glance just how profitable our machine really is. We can monitor how much fuel is being used on a daily basis and the total tonnage output." Robert Riddles.

The J1170 is complimented by the Finlay 683 and 693 inclined screens. Renowned for their quality, performance and productivity the Terex Finlay 683 combines scalping, screening and stockpiling into one self-contained unit. Complimenting this is the double deck Terex Finlay 693 which has been designed and developed with the demands of today's high production producer in mind.

For Riddles brothers, like so many other contract crushing screening operations the need to capture and process as many different grades of material as possible requires use of the 683 and 693.

"The FINLAY 683 and 693 inclined screens are designed for maximum utilisation of the two decks to provide ultra-efficient screening capacities even at small aggregate sizes. These machines allow us to screen more in spec material for customer requirements" Robert Riddles.

For Riddles brothers versatility and innovation in their machines is a priority but so too is avoiding downtime. The



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New Superior Tooth Jaw Plates adding value where it counts for G.F. Job

Scottish Highlands based company G.F. Job Ltd have been one of the first companies to trial the new Superior tooth jaw plates, designed and manufactured by Sandvik. They have doubled the lifetime of their jaw plates, whilst also experiencing a number of other key benefits.



Graeme Watt,
Plant Manager

G.F. Job Limited based in Nairn, Inverness offers a comprehensive range of services ranging from earthmoving, civil engineering, heavy haulage and recycling to contract crushing, owning five quarries of their own and supplying aggregates to leading suppliers in the Scottish Highlands.

Formed in 1990 the business has grown extensively and successfully over the years, currently employing 90 people and owns a wide range of Sandvik mobile crushing and screening equipment, including 4 tracked jaw crushers.

Predominantly the materials they crush in their quarries are granite and glacial cobbles, which is hard, abrasive material. One of the jaw crushers, a Sandvik QJ341 is employed in the same granite quarry for the majority of the year and this produces 500,000 tonnes of 5" crusher run to feed an aggregate processing plant.

With a keen interest in business efficiency and running the operation cost-effectively, G.F. Job has previously used a variety of different jaws to test the durability and performance. On this application both the heavy duty 20% style square tooth jaws and the conventional 14% corrugated jaws have been used and a history of tonnages produced from each jaw has been recorded to give a true account of performance in relation to costs. For this reason they decided to trial the new Superior tooth jaw plates on this machine.

Innovative design for improved performance

From talking and listening to customers Sandvik has developed a new profile of jaw plate, designed not only to increase durability and productivity, but also aimed at decreasing operating costs and service time.

The new Superior tooth jaw plates have been designed around adding material where it matters most. The new profile allows for a higher percentage of the jaw to be worn which results in longer wear life and less manganese waste. The improved tooth profile also allows for better breakage and improved material flow. This results in a more cubical product and a higher quality product shape.

Longer wear life

Following the trial at G.F. Job, the initial test data has been extremely encouraging. The average output increased from 200 to 250 tonnes per hour and wear rates increased upwards of 30%.

Graeme Watt, Plant Manager for G.F. Job who is delighted with the outcome, comments "In this particular granite application previous jaw plates have been ranging between 20,000-30,000 tonnes of crushed material and that's the life of the jaws. Since we went onto this new jaw we're up 50,000-55,000 tonnes for the life of the jaw. If you go into a limestone quarry, you'll get double but this is a hard abrasive material."

Better fuel economy

In addition to the increased wear performance, G.F. Job have also seen benefits in relation to fuel economy and an improved product shape, due to the new profile design of the Superior tooth.

"The new jaw plates are creating a better shape of product, but it's also crushing far more economically for us as well. It's reducing the load on the crusher, therefore you're creating better fuel economy whilst also reducing the physical hardship on that machine" says Graeme.

The unique design also makes the plates easier to turn over or replace, saving you time and money.

Reliability all round

G.F. Job has an excellent mutual working relationship with Sandvik. They know that they can rely on the support they receive to keep their machines running at all times. "The backup for us is fantastic" adds Graeme, "the machines are very reliable but the backup we receive from Sandvik is exceptional, it's what sells their machines".

Since the introduction of the Superior jaw plates, G.F. Job haven't looked back and have no hesitations in recommending these. "They benefit us all round: we are crushing far more, getting better fuel economy, producing a better product and they are lasting an awful lot longer. We will be looking to order additional sets for our other jaw crushers" concludes Graeme.



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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

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



Having worked for major crushing manufacturers previously, the Garwood brothers created Crusher Spares Ltd in 2009. This family business was set up to support the many Kue Ken Brown Lenox crushers still working worldwide after the factory had closed in 2000. Eight years later the business model is very much the same with extensive stock holding to suit most major brands across the globe with repeat business key and a testament to the products supplied, being highly competitively and proven to last.

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

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

Crusher Spares Ltd attended Hillhead 2016 and the show was a huge success for them with one major quarry operator placing an order on the stand for a substantial number of brand new grizzly feeders. They will also attend the Conexpo-Con/Agg show in Las Vegas, USA in March 2017 and would welcome a chance to meet up and discuss any customers heavy duty jaw plate requirements, whilst in Las Vegas.

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



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CMB prove their versatility at CEMEX Angerstein Wharf

Owned and operated by CEMEX UK the operation at Angerstein Wharf is a one of the largest operations within the company, supplying London with over a million tonnes of aggregates per annum.

It is a very intensive operation and works on a two shift, 24/7 operation with truck loading around the clock, therefore it is imperative that the production is continuous. With a small 5-acre footprint stockpiles are around 5000 tonnes with daily production the same. With a 24/7 two shift system, this facilitates the despatch of up to 5000 tonnes into London daily.

Recently whilst on-site installing a new screen for the processing line at the Unit Manager – Dave Whitby asked CMB if they could also manufacture a new water tank to replace the existing one, which was severely worn with some cracks appearing.

Illustrating their design and manufacturing capabilities CMB quickly supplied a brand-new structure. With the structure around 5m² and nearly 3m high the new water tank was fabricated in two halves, for ease of transport to the Wharf.

Within the new installation CMB had to ensure that existing pipe work and manifolds would line up with the new water tank, and had to ensure the structure was manufactured strong enough to handle the huge capacity of water.

Dave Whitby – Unit Manager, commented, "CMB have done a lot of good work for us in the past and as the water tank was literally falling apart it made sense to ask if they could supply a replacement. The water tank holds my mains supply and recycled water so it's a very important part of the processing operation; They made a very good job of it and the installation was very smooth."

S.P Services working on behalf of CMB carried out the removal of the existing tank and the installation of the new tank.

Martin Brough – Director of CMB, commented, "We were delighted to help out on this occasion, we do offer a bespoke fabrication service, and have extensive experience in repairing or replacing damaged or worn structures."



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Parnaby's experience and confidence is clearly seen at their new full size client trial wash plant

Parnaby Cyclones recently invited the HUB-4 team to take a detailed look at their new client testing facility in County Durham. Parnaby Cyclones have designed, delivered and commissioned over 160 washing plants across the globe, and recently have designed, manufactured and built a full-size trial wash plant for the demonstration and trial running of various materials. This wash plant facility has been built specifically so that clients can process their own material through the plant, and see for themselves how effective Parnaby's technology is - a unique one of its kind in the UK, try before you buy facility.

Parnaby Cyclones have used their separation technology to improve and increase efficiency for their customers' many diverse applications and deliver significant benefits over existing dry processing methods. As well as glass washing, sand washing, soil washing, the Parnaby trial wash plant can also be used for separation in other waste and recycling industries such as recycled aggregates, C&D waste, stone, rock, IBA, shredder light fraction, automotive shredder residue, precious metals, WEEE fines and plastics.

We caught up with Ian Parnaby to learn more about the business, plant and the technology used "We are very much a family business and very proud of that. My Grandfather, Derek Parnaby founded the business back in 1973, and now my father Adrian is Managing Director, with both myself and my brother Ben working to help drive the business forward. The initial technology was developed within the coal industry, separating the rock from the coal by the use of natural medium density separation techniques. This further developed into dense medium separation with the use of magnetite to create a suspension, allowing for much more accurate separation. Over the years' we have perfected the technologies of separation and now within the recycling industry, we are using our vast expertise of natural medium separation to provide a highly effective 'closed-loop' process for our clients."

"Now we have the trial plant, clients can really have confidence with wet separation techniques knowing that they can successfully process their own material. We invite them to bring as much material as they wish to our site for trial processing, and we always ask them to bring their worst material, so that they can see for themselves what will happen - seeing is believing and today is no exception, as we have invited a potential new client to join us."

We took a look at the trial wash plant with Ian, and met Graham Lambert, Managing Director of Prestige Aggregates who had brought along his worst-case scenario MRF glass material to be processed. Ian explained "Normally the biggest problem within MRF glass is the organic content, the plastic, cork, paper and fibre. As we ultimately want the glass product

to go back into re-melt, it's critical to remove this type of contaminated material, and the majority of clients don't know the exact make-up of their raw material, so it's down to our expertise to make sure the separation process works effectively. With Graham's raw material today, I am confident that we can produce a good clean re-melt specification glass product through one pass of the wash plant. After that, on our clients' own sites, it would go through an optical sorting process and then back into the foundry for re-melt."

"It's a two-fold benefit to our customers here for testing, not only can they bring their worst-case scenario material to us to run through the plant, but we can analyse it to see what's in it, weigh it, and conduct a complete LOI (loss on ignition) test for them prior to, and after processing."

Most MRF glass is 50mm down to around 15 micron, the thickness of a human hair, and the Parnaby process can recover product down to 100 micron (10th of a mm), meaning that they can reliably recover around 98% of glass above 100 microns through this process.

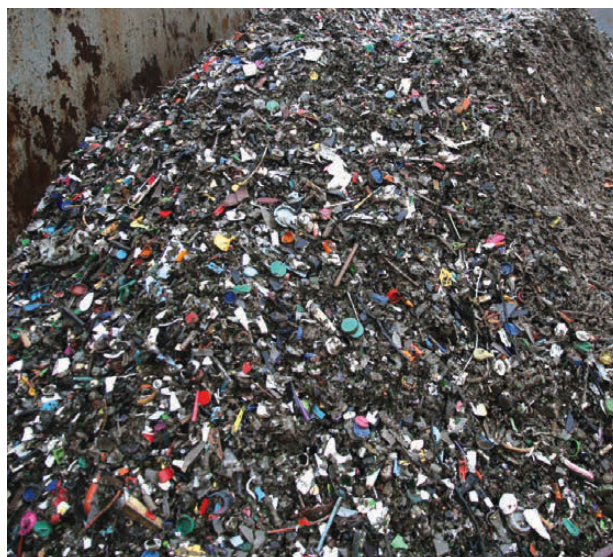


The Process

The Parnaby washing plant is best visualised as two smaller circuits working together to form the overall system. The primary system is the washing/separation section of the plant, which is running continuously. The secondary system is the water treatment section of the plant, which is also running continuously. Dirty water leaves the washing/separation circuit to be processed by the water treatment circuit. 'Clarified' or recycled, cleaned water then is re-introduced back to the washing/separation circuit. From first turning on the washing plant, this continuous full closed loop system is cleaning its water automatically at a rate of approx. 120m³/hr.

Washing & Separation

The waste material is loaded into a hopper, taken up a conveyor which has an over-band magnet to take the heavier ferrous metals out, and then into the barrel where it is mixed with water. The inclined rotating barrel is designed to separate out the lighter material which floats down the barrel to a trommel screen where it is de-watered and expelled. The heavier material (in this case glass) sinks down within the barrel and is caught by the integral spiral, and is driven up to



Incoming raw MRF feed

the top of the barrel where it exits. An attrition exists within the barrel and this helps scrub and liberate any paper that may be glued to the surface of the glass. The whole barrel spins and a bath of water is run at 1 inch above the height of the spiral, meaning that the lights float over and the heavies sink. The length of the barrel is for efficiency and the width of the barrel is for capacity. >

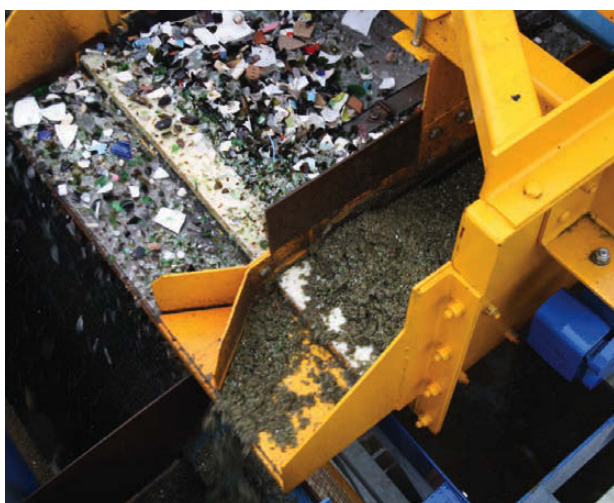




Course washed product



Fines glass stockpile



Heavies high frequency dewatering screen.
Left (course glass product) right (fine glass product)

As the floating material exits the barrel's trommel screen, it goes onto further de-watering via an inclined vibratory screen. This screen is inclined to increase residency time for aided de-watering. Again Parnaby use stainless steel wedge wire panels of 1mm aperture. The liquid collection tank below or 'balance tank', recirculates this liquid back up to the barrel feed launder as a continuous process to receive and flush in new material. The effluent bleed point is also located on this tank, constantly with a controlled overflow to send the dirty wash water to the effluent treatment section of the plant.

At the top end of the barrel, all heavy, dense material such as the glass and ceramics have sunk and been scrolled up by the internal welded scroll within the barrel. This material is then discharged onto the glass washing and rinsing screen. The material is rinsed with a series of spray bars to wet screen through the various product size fractions required. This rinsing also helps liberate any final organics or contamination, this fine glass is then pumped into the horizontal cyclone tangentially and swirls around creating a vortex in which the lighter particles are drawn to the middle and out through the vortex tube to a dewatering screen. The heavier particles are thrown by centrifugal force to the wall of the cyclone and are discharged at the opposite pointed end. More cyclones can be used in the process to create the desired combination to produce the required quality of final product.

The dynamic effect of the Parnaby Barrel Separator, plus the natural difference in density, efficiently cleans and removes the contamination. Any paper and plastic recovered by the cyclones is consolidated with the paper and plastic initially removed by the barrel separator to produce a common discharge point of these materials from the plant. The different final fractions are then fed to a conveyor and stock-piled, all this in just one pass of the plant.

Water Treatment

The first part of the water treatment section of the system is the Parnaby Water Cleaning Cyclones. As the diagram shows the coarse paper particles $<100\mu\text{m} - 1\text{mm}$ are recovered and extracted prior to further treatment of the cyclone overflow in the DAF (Dissolved air floatation) system. The Parnaby Water Cleaning Cyclones again use dynamic effect to separate material this time on size not density. The solids are removed from the water to help take solids loading away from the rest of the water treatment equipment. The Parnaby DAF system is a combination of both mechanical and chemical processes, where the chemical (flocculent) is used to pull together solids (+ charge) to the chemical which is negatively charged. This means very small particles of paper fibre are consolidated into larger solids. As the solids collect they float to the surface for removal. To aid in the floating of organics, the vessel is introduced with a curtain of micro-bubbles. These solids are then removed with a mechanical skimmer located on the top of the DAF, sending the solids to the buffer tank before final pressing through the Parnaby Belt Press.

Solids from both the top and bottom of the Thickener/DAF system are delivered to the buffer tank. Here the buffer tank stirrer is used to ensure a homogenised state of the sludge before filter pressing. As with all processes a more consistent feed material ensures more consistent operation and de-watering capability of the filter belt press. The sludge is pumped from the buffer tank to the reception hopper positioned over top of the filter belt press. Here a paddle within the reception hopper distributes the sludge evenly over

the width of the belt. Additional flocculent chemical can be added at this stage to aid in the de-watering of the sludge. As the material initially travels over the top of the filter belt press a lot of the moisture is drained through the belt membrane. The remaining solids are then squeezed between the two belts over and under a series of compression rollers to push out the remaining moisture.

The filter cake is removed at the opposite end of the machine, with a scraper to clean the belt. Additional cleaning of both top and bottom belts is facilitated with two self-cleaning spray bar systems, one dedicated to top belt cleaning, the second dedicated to the cleaning of the bottom belt. Belt cleaning is a continuous process when the machine is running, so the belt is always cleaned before receiving the next load of sludge. Moisture from the belt press is collected in a steel collection tank and is pumped back to the thickener DAF system, and therefore kept in circuit, cleaned and re-used as spray water back on the washing plant section of the process, and for the belt membrane cleaning.

Trommel Fines

Ian Parnaby added an important point "The process that we have developed is also a great way to deal with Trommel fines within the MRF glass recycling industry. This heavily contaminated Trommel fines material can be fed through our system in one pass, and we can produce a very clean glass based aggregate. This saves money for our clients who don't have to then pay for any unnecessary landfill. Also, as the industry standards and requirements change we have the added expertise with enhanced dense medium technology to reach the desired product specification."

What did the client think?

We asked Graham Lambert, Managing Director of Prestige Aggregates what he thought of the process "The material is wonderfully clean, its going through at a good rate which is important to us for getting volume through, and we now know that the optical separators can easily take care of the final stage of separation. I've seen the material at the start and the comparison with the end product is unbelievable. Just getting it to this stage gives me a lot of faith that we can reclaim even more glass for re-melt."

To learn more about Parnaby please visit www.parnaby.co.uk or call +44 (0)1388 720849

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Left to right Ian Parnaby, Graham Lambert, Adrian Parnaby.



DUO Equipment install a new Aggregate Washing Plant & Water & Silt Management System for N.R.S Aggregates

Owned and operated by N.R.S Aggregates, Saredon Hill Quarry is located at Shareshill near Wolverhampton. Following a period of six months when the site was reinstated into working order sand processing quickly followed and has been in operation for the past 3.1/2 years. With current planning permissions in place until 2032 there are also further options for extensions in the future.

Processing was originally handled by a washing plant which at the time was sufficient to cope with the sales, but with rising demand from a major customer to supply sharp sand for 3 concrete plants, with a further two coming on-line in 2017 a decision was made to upgrade the production capabilities. After researching the market industry leading, specialist washing equipment supplier DUO Equipment were duly awarded the order for a new Washing Plant and a Water and Silt Management System.

Stephen Graham – Operations Manager, commented, “The new plant has given us the scope to increase production and improve efficiency and production of high value products to match demand. At this point we are operating at about 58% capacity and are processing 10,000 tonnes per week and selling 8,000 tonnes per week across the weighbridge.”

Stephen, continued, “With a mixed feed from three sources the material is mixed like a cake and blended in metre layers until 5 metres in height is achieved, this is then levelled off with a dozer with another layer added which provides a better mixture, eliminating any gaps in the grading.”

The Sand & Gravel Plant:

Capable of processing over 250tph the plant is fed by wheeled loader into a 50-ton hopper (with tipping grid) via access up a wide ramp. The width of this ramp also allows the plant to be fed by a dumper if there any problems with the loader.

Material is then fed via a 42m long inclined conveyor onto the 3-deck, 20x6 aggregate rinsing screen of the TEREX® AggreSand™ 206 modular wash plant. This is a three-deck version which utilizes individually controlled spray bars on each deck. The two-bearing screen is fitted with polyurethane modular media on all three decks with the top deck rejecting any +20mm material. This oversize material is fed via a chute onto the 32m long crusher feed conveyor which feeds a 25m³ surge bin. Material is then delivered onto a vibratory feeder which automatically choke feeds the TC1000 cone crusher; crushed material is then returned back onto the screen feed conveyor for further processing.

Stephen, further commented, “This closed-circuit arrangement has worked very well and has proved to be a very good investment; we do have a rotary crusher at our other site but I prefer the cone as its very efficient.”

The screen decks then split the required products of 10mm and 20mm which is then stockpiled via conveyors. The bottom deck is split and provides a 0-2mm which is delivered to a

Finesmaster™ 120C; a static sand recovery unit on one chassis complete with centrifugal slurry pump, hydrocyclone, collection tank and a 12x5 dewatering screen. This produces a soft sand which is then stockpiled by radial conveyor.



The 0-4mm off the bottom deck is fed to the AggreSand™ 206 sand plant to produce a sharp sand. Chute-work on the AggreSand™ 206 employs the now well tested dead-box system which results in rock on rock set-up which is proving to give excellent wear properties.

The AggreSand™ 206 sand plant at Saredon consists of a high energy 14x6 dewatering screen which is capable of dewatering up to 200tph. Two 45Kw 200/150 pumps, one G4-660mm and one 500mm cyclones complete the specification to produce a clean in-specification sharp sand.





Luke Talbot - MD at DUO, commented, "The Terex® AggreSand system is delivered pre-wired and pre-plumbed and combines aggregate washing and screening with sand processing on an easily installed modular chassis which was the ideal solution for N.R.S. It brings together tried and trusted Terex Washing Systems components in an innovative design that is very appealing in terms of access, serviceability and modularity. Quite simply it sets itself apart from other washing systems in the marketplace."

Water and silt management system:

The Water Treatment Plant at Saredon receives dirty water, from the washing plant and has two purposes. The first is to clarify and recycle the water and the second is to concentrate the sludge. This is achieved by the addition of a polymer which attracts the silt particles, forming larger, heavier ones which congeal and sink to allow both targets to be achieved. These heavier particles are known as flocculants. Delivered as a white powder the process involves two stages: mixing with a low speed agitator, and secondly by maturation that takes place in a second tank where it is dosed by a pump with a frequency variator.

The dirty water coming from the cyclone overflow is mixed with the flocculent solution prepared by the Dosafloc. An additional and final dilution of the flocculent solution through cyclonic spreaders then optimises this mixing solution in the flocculation box (fitted with baffle plates). Once prepared, the water is directed by gravity into the central feed shaft.

At this point the flocculation controller takes a sample of flocculated water from the central shaft and the settling speed is measured by the Controflow (a glass tube fitted with

optical cells). This information is then transferred to the PLC which automatically adjusts the flow from the flocculant dosing pump (according to the settings entered during the commissioning stage) in order to optimise the flocculation efficiency and consumption. After each measure, the glass tube is automatically rinsed. Samples taken with a vacuum system avoid the use of a pump which would distort the measure by breaking the flocculants. The optic cells also determine the turbidity of the recycled water and therefore adjust the coagulant dosing accordingly.

Sludge Concentration and Evacuation:

The sludge settles quickly at the bottom of the thickener where it is concentrated and gathered into the pumping cone due to the slow movement of the scraper. The sludge is then drawn by a pump which is located alongside the 14m diameter thickener tank which is sized to handle up to 40tph of silt. The sludge pumping cycles are controlled according to the measure of the resisting torque applied on the scraper which is interpreted by the PLC. This gives reliable information about the quantity and consistency of the sludge at the bottom of the thickener, and also offers a safety in case of a 'build up' inside the thickener. If an overload is detected by the inverter, the scraper is automatically fully lifted to its upper position and then progressively lowered down to dilute the sludge.

The transfer and pumping of recycled waters is achieved with the overflowing waters being discharged into the 10m diameter clarified storage tank, where the plant feed water pump delivers it back to the washing plant.

The technical room and static bridge:

The whole plant is controlled from the technical room (sited on the static bridge) by the PLC; via a touch screen which displays the synoptic and allows access to the settings. The main switch and control panel are also located inside the technical room which contains the flocculent preparation, dosing unit and controller, the main switch, control panel, scraper driving unit and the fresh water box.

Commissioned in mid-summer of 2016 the plant has performed efficiently providing N.R.S with much more control and flexibility over their production enabling them to satisfy the increased demand.



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Dernaseer's highly effective washing solution for Smith Construction

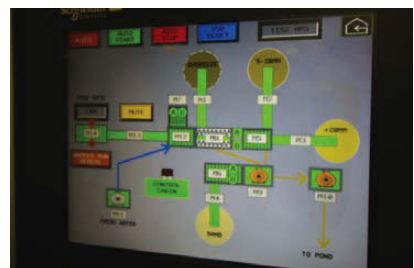
The HUB-4 crew took a trip to Newport Pagnell to look at a new Dernaseer wash plant installed at Smith's Willen Road Quarry. The key considerations when purchasing the plant were value for money, cost per tonne of material produced, ease of operation and ease of access for service and maintenance. Dernaseer were chosen as the supplier after Smith's looked at several different options across the industry.

We caught up with Ian Smith, Managing Director of Smith Construction "We've had this site now for 12mths and we have around 350,000 tonne total of mineral to process here, and to date we've processed 75,000 tonne. We wanted a wash plant that we could work on easily ourselves and have good access to everything. Dernaseer came up with a design that was practical, heavy duty and would 'do exactly what it said on the tin', giving us incredibly good access and control over everything. They installed high quality galvanised walkways around the whole wash plant so we can access the entire plant on foot."

"The 120TPH plant was built on-time and on-budget by Dernaseer and has really impressed us. I've been extremely happy with the service and the whole experience from their family lead team has been great. Even when the plant arrived, the second truck was driven by Declan McKenna, Managing Director of Dernaseer, who then got totally hands-on with the installation process – what more can you ask for."

The washing process contains a range of equipment from the Dernaseer product portfolio including a 20m³ belt feed hopper with remote control tipping and reject grid; DIS6162 washing screen, DLW502 log-washer, DSP120 cyclone sand plant, DIS5123 rinsing screen and 24m powered radial sand conveyor. The pit-dug sand and gravel material is fed into the belt feed hopper where the +100mm stones are rejected, while the 0-100mm material is fed up to the DIS6162 washing screen.

The DIWS6162 is fitted with a modular polyurethane screen system for increased wear and reduced noise. The -5mm material is washed through the bottom deck and transferred to the DSP120 sand plant where the -63µm particles are separated and rejected, while the +63µm-5mm concrete sand travels along the dewatering screen to remove excess water, and is stockpiled on the high capacity 24m powered radial stockpiling conveyor. The +60mm is rejected off the top-deck and is stockpiled for future crushing on-site.



The +5-60mm aggregates are fed into the DLW502 twin-shaft log-washer and are subject to a high level of aggressive attrition. This scrubbing further liberates more 0-5mm and in addition any lightweight contamination is floated off the rear of the log-washer. The contaminants are fed over a dewatering screen and discharged into a skip while the dirty water is fed into the DSP120 to maximise the recovery of saleable sand.

From the log-washer the scrubbed gravel is discharged onto the DIRS5122 rinsing screen which is also fitted with a modular polyurethane screen system. This gives the gravel a final rinse and separates them into the required sizes - concrete sand, 5-20mm, 20-40mm, and + 40mm which is stockpiled for crushing.

For more information on Dernaseer please visit www.dernaseer.com or call +44 (0) 28 8776 7646, or contact Martin Conway on +44 (0)78 098 64869.

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CONEXPO-CON/AGG 2017

CONEXPO-CON/AGG and the co-located IFPE exhibitions will be held March 7- 11, 2017 at the Las Vegas Convention Center in Las Vegas, Nevada, USA, spotlighting the latest technologies, products and best practices for the construction and construction materials and fluid power/power transmission/motion control industries.

In addition to exhibits, CONEXPO-CON/AGG and IFPE 2017 will offer in-depth industry education with a record number of sessions, and flexible education ticket options to fit attendee needs and schedules.

The shows feature new registration Badge-Packs for added value and convenience, and access to the new Tech Experience.

The Tech Experience extends the technology shown on the show floor and is dedicated to presenting emerging construction innovations that are driving change and process improvements across the industry. A highlight is the unveiling of the world's first fully-functional steel 3D printed excavator.



A show mobile app enhanced by beacon technology will continuously synch to the shows' online planner.

Attendees can stay connected with show updates to maximize their time and stay organized with a personalized schedule of exhibitor and education details plus interactive 3D maps. To download, search CONEXPO-CON/AGG or IFPE in your mobile app store.

A more efficient show layout will better connect attendees with exhibitors, plus feature additional food outlets and comfort zones (seating areas and charging stations).

Registration Details – New Badge-Pack

The show Badge-Pack includes a free multi-day Las Vegas monorail pass and deluxe coach bus transportation between most official hotel partners and the shows, as well as discounts at Las Vegas bars and restaurants. The shows are the first to partner with the Las Vegas Monorail Co. to offer the pass.

The Badge-Pack covers admission to both exhibitions, with a combined seven different lots and halls (and the new Tech Experience) already spanning a record more than 2,500,000 net square feet exhibit space (232,000 meters) with 2,500-plus exhibitors expected.



New, for added convenience, pre-registered attendees can pick up their Badge-Packs at several Las Vegas hotels and the Las Vegas McCarran International Airport as well as onsite. And the shows have added a third full-service registration area onsite for speed and convenience (registration areas at Las Vegas Convention Center Gold Lot and Bronze Lot and Westgate Hotel adjacent to North Hall).

Easier to Get Around, Find New Products Faster

CONEXPO-CON/AGG 2017 will feature a streamlined show layout to help attendees more easily comparison shop for the products and services they need for their businesses.

The reconfigured CONEXPO-CON/AGG layout is designed to create better synergy between outdoor and indoor space product areas and make it easier for attendees to navigate the show.

As part of the new layout:

- The Gold Lot includes an expanded Gold Hall and now extends to Las Vegas Boulevard, using the site of the demolished Riviera Hotel
- A new Bronze lot (with Bronze Hall) has been added south of South Hall, extending the length of the building
- Both lots will feature Registration areas as well as registration in the Westgate Convention Center (formerly Las Vegas Hilton) adjacent to North Hall

Show management cited increased demand for exhibit space as a major factor in the show floor redesign to make optimum use of available space.

The Tech Experience - See the Future Now

The new 75,000-plus square foot (6,900 square meters) Tech Experience will showcase the ideas and technologies that will transform the future of construction to enhance safety,

productivity and profitability.

The Tech Experience is designed as an engaging experience that will bring to life the trends and solutions that are developing now and emerging in the next several years for the jobsite, workforce and infrastructure. Also featured will be a Tech Talks educational forum and the Infrastructure Vision 2050 initiative of the Association of Equipment Manufacturers (AEM).

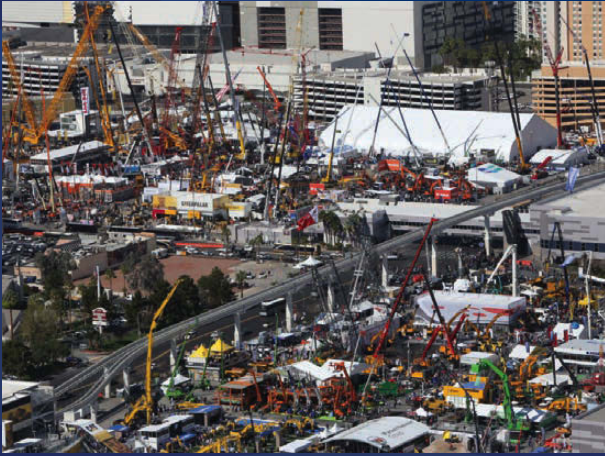
As part of the Tech Experience, CONEXPO-CON/AGG and IPPE 2017 are teaming up to unveil the world's first fully-functional 3D printed construction excavator and the first large-scale use of steel in 3D printing, known as additive manufacturing. The excavator, which will be on display at the joint trade shows in March 2017, will bring to life how technology is transforming the construction industry in line with the CONEXPO-CON/AGG 2017 theme, "Imagine What's Next." In addition to the pre-printed excavator, show attendees will be able to view a demonstration of the 3D printing technology.

Known affectionately as Project AME (Additive Manufactured Excavator), the excavator is being 3D printed using various machines at the Oak Ridge National Laboratory's Manufacturing Demonstration Facility (MDF) to create and assemble three components: the cab, the boom, and a heat exchanger. The excavator's boom will be fabricated using newly developed free-form additive manufacturing technique to print large-scale metal components.

A student engineering team from the University of Illinois at Urbana-Champaign won a design competition for the cab.

The excavator is a joint collaboration between the Association of Equipment Manufacturers (AEM), National Fluid Power Association (NFPA), Center for Compact and Efficient Fluid Power (CCEFP), Oak Ridge National Laboratory (ORNL) and the National Science Foundation (NSF).





Education to Succeed

CONEXPO-CON/AGG 2017 will offer a record number of 150-plus education sessions, including a new Technology track, to provide attendees with the latest industry knowledge and best practices to improve their professional skills and company productivity.

The new CONEXPO-CON/AGG 2017 Technology track focuses on industry innovations and future growth opportunities in the technology field, including drones, autonomous machines, 3D imaging, smart apps, gamification, big data and IoT.

The technology track complements the new Tech Experience showcasing the ideas and technologies that will transform construction in the future.

CONEXPO-CON/AGG 2017 education tracks will also offer the latest trends and best practices focused on: aggregates; asphalt; concrete; cranes, rigging & aerial lifts; earthmoving & site development; equipment management & maintenance; management: business best practices; management: workforce development skills; and safety & regulations.

IFPE 2017 will host the fluid power industry's prestigious Energy Efficient Hydraulics and Pneumatics Conference (EEHPC) in addition to offering hands-on "college course" education on the effective use of hydraulics in mobile equipment.

The Energy Efficient Hydraulics and Pneumatics Conference (EEHPC) focuses on concepts and techniques to keep fluid power (hydraulics and pneumatics) systems operating at peak efficiency to reap significant energy savings.

The conference traditionally includes a "future of fluid power" program, which at IFPE 2017 will explore robotics challenges and opportunities.

The EEHPC is sponsored by the National Fluid Power Association (NFPA - IFPE co-owner), the FPDA Motion & Control Network, and the International Fluid Power Society.

Four half-day IFPE "college-level courses" will emphasize hands-on technical knowledge on the effective use of hydraulics in mobile equipment: (1) fundamentals of hydraulic systems; (2) hydraulic fluid properties, efficiency and contamination control; (3) hydraulic system design strategies for mobile applications; and (4) electro hydraulic, systems design and control.

IFPE focuses on the latest innovations, product advances and expert insights to fully equip engineers and others involved in the design and manufacturing process to increase efficiency, contain costs and improve the performance of their hydraulic and pneumatic systems and applications.

Charity Give Back Initiatives

The shows recently announced that the Call of Duty™ Endowment is the official charitable partner for the 2017 events.

The Endowment is a nonprofit organization founded by Bobby Kotick, CEO of Activision Blizzard, in 2009 to help veterans secure high-quality jobs after their military service and to raise awareness of the value vets bring to the workplace. Every single dollar donated goes towards this important work, and just \$600 helps a veteran find a high quality job.

The first major donation is from Terex Corporation: a benefit concert featuring multi-platinum rock band, FOREIGNER, for Wednesday, March 8 (and hosted by Brooklyn Bowl in Las Vegas). Show attendees will be allowed to make a donation to the Endowment for entrance to the concert.

Additional fundraising events planned for the Endowment include on-line silent and live auctions with 100 percent of auction proceeds aimed at helping military veterans find jobs.

International Visitor Assistance

CONEXPO-CON/AGG 2017 has been named to the U.S. government's 'International Buyer Program' (IBP) in recognition of the show's global scope and reputation as a leading worldwide event.

The IBP works to increase international attendance at U.S.-based exhibitions and create global business opportunities for show exhibitors. A select number of U.S. trade shows each year receive the IBP designation from the U.S. Department of Commerce after a rigorous selection process.

CONEXPO-CON/AGG show management encourages all international show participants who need visas to initiate the application process well in advance of the show to assure they will be able to attend.

Show Management also partners with industry groups and other organizations to bring delegations of industry professionals together from around the world to CONEXPO-CON/AGG.

The show offers a variety of services to make it easier for international industry professionals to plan their visit and conduct business onsite, including an International Trade Center onsite and an official Export Opportunities Guide.

The International Trade Center (ITC) will also host a series of market-information updates during the show for key countries and world regions.

Attendees will find the latest updates and can register online at www.conexpoconagg.com and www.ifpe.com



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Bruce Materials Processing Solutions continue to successfully provide custom built aggregate and sand washing systems

Through a constant focus on product development and innovation we are able to respond to the ever-evolving requirements of our existing and new clients. This adaptability and focus has led to BRUCE offering a catalogue of machinery tailored to suit client specific sites and material. The containerised "BRUCE WASHPOD - BWPOD100" and the "SANDPOD" with their minimal footprint and manoeuvrability, offer a solution to clients with restricted area on site, or to clients who have multiple sites and want to wash at each site as and when required. Our modular Sand Plants including the "New Generation" Bucketwheel and Cyclone Sand Plants BWSRB 120/200 and BWS 60/120/200 offer many new and improved features including: flexibility – easily adaptable to different plant set-ups including static and mobile installations with a quick change-over time from single product to twin product; production – increased tonnages and proven success at producing in-spec products whilst removing unwanted contaminants such as silt/slurry and organics. Furthermore, we are able to offer a complete closed loop washing system whereby clean recycled water is fed back to the plant using BRUCE specialist water treatment machinery.



Through our extensive experience, the flexibility of our machines and our willingness to work closely with our customers, we have been able to service customers with varying material requirements including the sand and gravel industry, the recycling industry – glass/C & D and the extraction industries.

Building on the success of 2016 where we opened new markets in the USA and Europe including Turkey, Denmark and Norway to name a few, we are continually striving through constant communication with our distribution partners worldwide and their customers, to provide solutions that cater for washing requirements large and small. Our attendance at key trade events in 2016 including Bauma and the Hillhead Show enabled us to further develop the BRUCE brand. We will augment this by our attendance in 2017 at ConExpo and CQMS and we look forward to meeting our valued existing clients and potential new clients.



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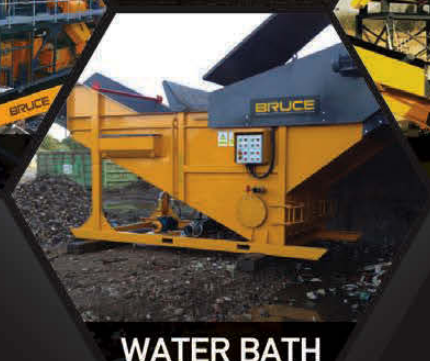
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Breaking New Ground



Smiley Monroe will be breaking new ground in more ways than one at ConExpo-Con/Agg in Las Vegas. On top of exhibiting independently for the first time at the Western Hemisphere's largest construction show, the family-run company is also embracing the latest technology on their outdoor booth, to give visitors a truly immersive product experience.

Following success in 2016 at bauma Germany and the UK's Hillhead Show, Smiley Monroe will showcase their 'endless' conveyor belts and custom rubber parts – their core product offering for the North America market, where the company has continued to grow its exports to OEM customers in the mobile 'portable' equipment sector.

Investing in the Future

Vaughan Monroe, Managing Director and co-founder of Smiley Monroe explained:

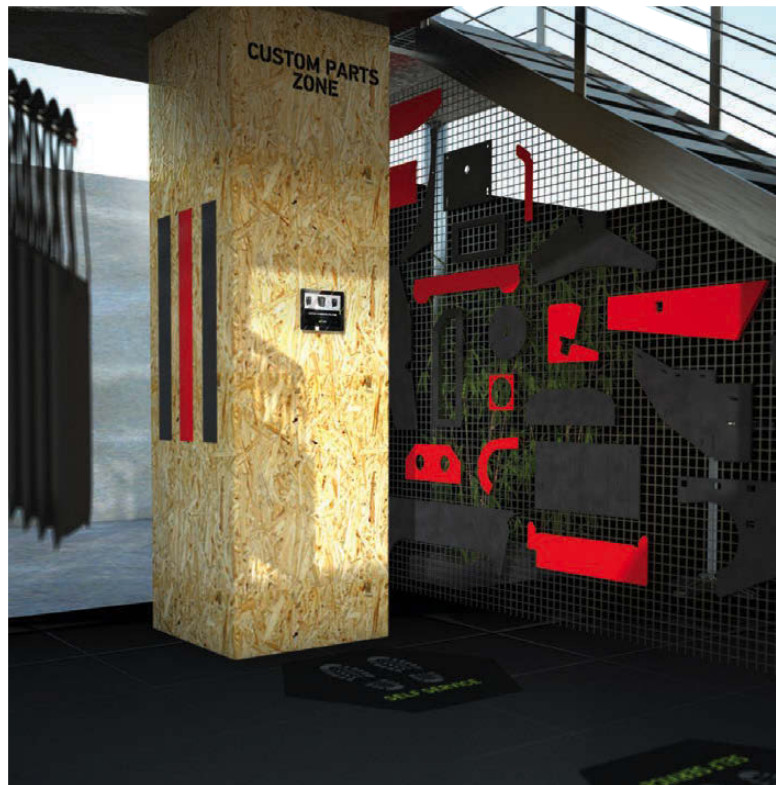
"Despite all the uncertainty out there, we're investing heavily for continued growth and we're anticipating an exciting year ahead. I'm particularly looking forward to having conversations with our customers at ConExpo about how the USA's planned infrastructure investment will positively impact all our businesses - and with the strength of the dollar against sterling, Smiley Monroe represents even better value today to its North America customer base. At ConExpo 2014, we began to explore the feasibility of a US hub and with guidance from Invest Northern Ireland Americas, I'm happy to say that we'll be unveiling our plans in the coming months."

Explore Your Own Way

Tim Monroe, Smiley Monroe's Marketing Director told us: "Our applications experts and experienced problem-solving engineers will be well equipped to communicate the benefits of Smiley Monroe's product offering for the North America market, using not only physical, but virtual displays, comprising 3D demonstration videos, interactive product animations and a virtual reality (VR) pod. So, in the spirit of this year's theme - 'Imagine What's Next' - we're breaking new ground in our own use of technology."

"On our booth we're offering visitors a more personal and immersive product experience, and for the first time, a self-service option, which means you can choose how to interact with us. Hopefully visitors will find it hard to miss our large scale graphic banners, proudly displaying our 2016 production numbers: 250 miles of 'endless' conveyor belts, the equivalent of 900 Empire State Buildings placed end to end, or enough to cover 3,667 football fields."

Tim added: "We appreciate that not everyone has time to stop and talk or slip on a VR headset, and others just want to be able to explore a bit more by themselves, so on entering our booth, an iPad in each of four zones allows visitors to quickly browse our products and automatically email information to themselves and share it with their colleagues."



**On the Road**

Chris Monroe, Smiley Monroe's Global Sales Director told us: "At ConExpo our team will be focused on conveying to the market the unique selling points of our tried and tested core product - 'endless' conveyor belts. We'll be surrounded not only by our world class manufacturing customers, who rely on our conveyor belts and custom rubber parts' quality and forecasting; but by their customers too, whose crushing, screening, washing and recycling machines rely on our products to do a real 'job of work' and keep the show on the road every day."

Chris continued: "A lot of our customers are in Northern Ireland, where County Tyrone has a highly successful cluster of quarrying equipment manufacturers accounting for a remarkably high proportion, 40%, of the worldwide marketplace. That means names like Terex, McCloskey International, Sandvik, Telestack, Edge, Maximus, Anaconda, Portafil, Tesab and CDE Global. Beyond Tyrone and Northern Ireland, Smiley Monroe exports to European and North American OEM brands such as Keestrack, Metso, Kleemann and Astec Industries."

New Sectors, New Products

In addition to producing conveyor belts and custom rubber parts for its customers, Smiley Monroe has also started supplying the environmental and road construction sectors with 'Special' belts – launched at bauma 2016 in Munich - having invested in new equipment and processes to customise



'endless' belts by adding features such as hot moulded rubber cleats, side rails and side walls to the belt's carrying surface, to suit a customer's specific application.

And new high pressure presses allow Smiley Monroe to manufacture heavy duty rubber wear liners for hoppers, which they say are exceeding customer expectations.

Are We Running? It's Competition Time

As part of their 'Giants of Belting' theme at ConExpo, inspired by Northern Ireland's Causeway, Smiley Monroe will be running a 'Giant selfie' competition on their booth to win an all-new Apple Watch Nike+. (There'll also be a pre-show competition to name the giant on social media). Having posed with the Giant of Belting, busy visitors can relax upstairs at a charging zone with their hungry smartphone or tablet and literally recharge their batteries, while they take a break from the demands of the show to catch up with the Smiley Monroe team and their 'legendary' hospitality.

Northern Ireland and India based Smiley Monroe is the global leader in the production of 'endless' conveyor belts and custom rubber parts for global materials processing equipment manufacturers (OEMs) in the crushing, screening, recycling, washing, road construction and environmental sectors.

With almost 40 years under their belts and a passion for 'Lean Manufacturing' methods based on reducing waste across the entire business spectrum, Smiley Monroe's reach is now global, with a new logistics hub in Lisburn for faster loading of exports to more than 40 countries worldwide – from the West of Ireland to the Midwestern United States.



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CONEXPO-CON/AGG 2017

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Rapid will exhibit for the 8th time at Con Expo 2017

Rapid International Ltd is delighted to be exhibiting its Rapidmix 400CW mobile continuous mixing plant at Con Expo 2017. This will mark the company's 8th appearance at the international exhibition which takes place once every three years at the Las Vegas Convention Centre. Con Expo is an international gathering of professionals in the construction, aggregates and ready mixed concrete industries. The exhibition takes place on 7-11 March 2017 and Rapid will exhibit at stand number B7203 (Bronze Lot).



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

On display at the exhibition will be the Rapidmix 400CW continuous mixing plant, popular with both civil engineering and road contractors alike. Rapidmix is the most mobile mixing plant available on the market, offering fast mobilisation via a fully self-contained and hydraulically self-erecting system. Rapidmix offers the highest outputs available for a machine of its type, up to 600 tonnes per hour. Rapidmix is ideal for semi dry mixing applications such as RCC (Roller Compacted Concrete), CTB (Cement Treated Base), soil stabilisation, soil cement, Betonite and many more.

Rapidmix is just one of a range of innovative mixing technology solutions offered by Rapid. Rapid's continuous mixing range also includes the recently developed Trakmix, a compact, track mounted continuous mixing plant. Rapid also offers a complete mobile batching plant range, including Rapidbatch, a totally mobile batching plant with fast set up and massive outputs up to 120m³ per hour and Transbatch, a compact single load, mobile batching plant offering outputs up to 100m³ per hour.



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

Visit Rapid International Ltd at stand B7203 (Bronze Lot) at Con Expo on 7-11 March 2017.



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New division, new products, larger presence at **CONEXPO** **2017**

See what's next for McCloskey International - New division, equipment and features to be highlighted...

Screening and crushing industry leader McCloskey International will clearly demonstrate its continued growth with a significant increase in its presence at CONEXPO/CON-AGG 2017 in Las Vegas, Nevada.

Located in the Silver Lot at Stands S5014 and S5115, the 20,000+ sq.ft. (1858m²) space will showcase the newest products from McCloskey International, as well as serve as a launch point for the new division – McCloskey Washing Systems.

The 3200 sq.ft. hospitality and information pavilion will provide a venue for customers to meet and mingle with dealers from around the world.

A 50% increase in floor space over 2014 will allow McCloskey to showcase new products alongside the new wash plant, including stackers, screeners and crushers.



Plant, Sandstorm™. This modular chassis-mounted scalping unit brings operators a well-proven cost-effective and durable machine in a modular all-electric format, ideal for C&D recycling applications.

"The new product launches are evidence to our ongoing commitment to providing reliable high quality and highly productive equipment that allows customers to meet today's stringent specifications for cleaner material," said Sean Loughran, Director, McCloskey Washing Systems.

"We are thrilled about unveiling our modular wash plant range at CONEXPO. Our engineers have been working on finalising design and specification of Sandstorm and it's ready to be launched onto the world stage."

There's a storm brewing:

CONEXPO will see the unveiling of the first Sandstorm washplant. The new MWS products on display at Silver Lot S5115 will represent McCloskey's growing diverse range of materials and mineral washing products. The new product line-up features the much anticipated Modular Wash

Plant, Sandstorm™. This modular chassis-mounted scalping unit brings operators a well-proven cost-effective and durable machine in a modular all-electric format, ideal for C&D recycling applications.

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"We are thrilled about unveiling our modular wash plant range at CONEXPO. Our engineers have been working on finalising design and specification of Sandstorm and it's ready to be launched onto the world stage."



McCloskey Washing Systems will have a team of technical engineers on-site during the show.

New SDX-130 Telescoping Stacker - stacking up well:

Also on display will be the new SDX-130 telescoping stacker. The SDX-130 desegregates and maximizes stockpile capacity using a robust, fully automated and highly flexible CAN based control system to providing optimal control of material quality. It is capable of 700TPH in applications like aggregates.

New R155 feature - extended hopper:

McCloskey International will introduce a new R155 model to its lineup of industry leading screening equipment, aiming to provide maximum load flexibility and capacity to its customers. Designed to accommodate a larger variety of loaders, the R155 is able to work in a variety of sites around the world. The R155 will be displayed feeding into the popular J50V2 jaw crusher.

The Green Team - you are ready:

McCloskey International will also be actively recruiting at CONEXPO/CON-AGG 2017 to meet the demands of its rapid expansion worldwide. Positions available will range from technical to sales, engineering to production. A campaign supporting the drive for talented and experienced candidates wishing to establish their own business "You Are Ready" will also be featured at the show.

McCloskey International leads the screening and crushing industry with a complete line of equipment including crushers, screeners, stackers, and washing systems. 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.



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Anaconda® to launch latest equipment @ Conexpo 2017

Anaconda Equipment International® manufactures and exports machinery for use primarily in the mining, quarrying and waste recycling industries. Anaconda's current range of equipment includes conventional screening units, scalpers, trommel screens and mobile conveyors.

Since entering the U.S. market eight years ago, Anaconda USA has been exceeding customer expectations with reliable, durable and high performing products.

Anaconda USA® will be exhibiting at booth #B8015 in the Bronze Lot at the Las Vegas Convention Centre from March 7th - 11th, 2017, and will exhibit two machines: the new 'TD620 Tracked Trommel' and the ever popular 'DF410 Tracked Screener'.

TD620

The TD620 model has been newly introduced following demand from customers who require a machine to handle larger volumes and feed size than those offered by the highly successful TD516. Reflecting their expertise in trommel design/manufacture, Anaconda® has launched the TD620 trommel screen specifically for processing materials such as waste, compost, woodchip, soil, and related products.

A modern control panel allows operators to easily configure the machine to suit required applications. The control system features; a drum load sensing system, forward and reverse 4 wheel drum drive with variable speed control and variable speed control on all conveyors to optimize throughput requirements. The load-sensing material feed enables an optimum utilization of the large screening surface.

The TD620 trommel is extremely robust with a high capacity drum suitable for efficiently processing the most difficult applications from construction & demolition waste to fine soil screening. With numerous screens and drum types available,

the TD620 provides exceptional solutions across a range of sectors.

DF410

The DF410 is a compact work horse screening and stockpiling up to 250TPH. This entry level screener is ideal for those restricted by working in urban areas. The DF410 is a robust and versatile tracked screener offering 3-way screening and stockpiling of a wide range of materials including demolition waste, crushed rock, sand & gravel, topsoil, compost, woodchip and coal.

Features of the machine include a heavy duty feeder complete with impact bed, heavy duty belt (or Steel Apron Feeder), drop down end plate for direct feed from crushers, and variable speed belt control. The screenbox offers a range of screening media including woven mesh, punch plate, bofor decks or finger screen option. The 3 integral conveyors come with hydraulic fold and variable speed control as standard.

The screener is very well priced and is easily transported/set up - it also ships in a standard 40ft container without any breakdown/removal of parts.

Anaconda continues to surge forward, with the recent launch of more new products, the range now extends to more than 20 products. Our dealer network extends across the globe and overall presence in this sector is becoming more dominant. Participation at the Conexpo show in Las Vegas is further testament to our intention of becoming one of the leading suppliers of mobile screening equipment worldwide.

The Conexpo show is the ideal global launch pad opportunity for these new Anaconda machines to the global market. We look forward to meeting with customers and discussing the features and benefits of our extensive product portfolio. For further information on the products manufactured by Anaconda please visit them on stand or email sales@anacondausa.com. We hope to see you there!



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AGGREGATE

CMS Cepcor™ will exhibit at CONEXPO for the first time

CMS Cepcor who are Europe's leading aftermarket manufacturer and supplier of premium replacement crusher spare parts, manganese crusher liners and crusher service supplying worldwide to the mining and associated crushing industries will be exhibiting at the CONEXPO - CON/AGG show for the first time in March 2017.

Based in Coalville, Leicestershire, UK, and holding a stock inventory of \$15 million USD our approved and certified UK manufacturing facilities include CNC, milling, turning, boring, slotting, grinding, drilling, welding, FARO co-ordinate measuring and Spectro material testing.

CMS Cepcor™ are the OEM of Goodwin Barsby™ Series 5 jaw crushers and vibrating grizzly feeders, all of which are UK manufactured which have evolved by improving on the tried and tested design without compromising build quality for cost savings. Special show offers will be available on the Goodwin Barsby range for stock machines.

CMS Cepcor™ are also an authorised service facility for FLSmidth™ for the local market and can 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.

In addition, we are the authorised UK and export distributors for Korrobond 65 crusher backing and release agent products, our extensive stock holding in the UK allows us to despatch even the largest order promptly worldwide.



Exporting to 100+ countries, CMS Cepcor™ were recently awarded The Queen's Award for Enterprise: International Trade 2012 for outstanding export sales.

Our premium manganese steel and alloy crusher liners are independently proven in mining and aggregate production to achieve and often exceed the performance of the equivalent Original Equipment Manufacturers castings.

All of CMS Cepcor™ replacement crusher parts have full traceability within Lloyds Register ISO9001:2008 quality system. All our parts are designed and manufactured in consideration of the original equipment manufacturer's specifications, producing high performance and offering cost-effective savings.

Held in Las Vegas every major construction industry is represented amongst 2,500+ exhibitors over 2,500,000 square feet.

Visit the CMS Cepcor™ team on stand number C22805.



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Liebherr exhibits a wide range of equipment at Conexpo

During Conexpo Con/Agg 2017, Liebherr will present an extensive selection of its Earthmoving, Material Handling and Construction Equipment product range. The Liebherr outdoor booth will be located at the Las Vegas Convention Center, Gold lot G4637.

From March 7-11 2017, more than 25 pieces of Liebherr equipment will be presented at Conexpo Con/Agg. Liebherr's outdoor booth covers 50,000 ft² and will provide room for hydraulic excavators, wheel loaders, crawler loaders and dozers, deep foundation equipment, material handlers, tower cranes, mobile and crawler cranes as well as a concrete pump. Liebherr's product range of components for the mechanical, hydraulic and electric drive systems will also be on display in the south hall of the Las Vegas Convention Center, Booth# S84230. Of interest to HUB readers are the XPower® wheel loaders and LH40M and LH22 handlers.

Liebherr rolls out XPower® wheel loaders with an innovative power-split driveline concept

XPower® is an integrated, innovative machine concept for the large series of wheel loaders with operating weight from 39,020 lbs. – 71,870 lbs. (L550-L586). The new concept sets new standards in terms of fuel efficiency, performance, robust design and comfort. The core of the XPower® is the Tier 4 Final/Euro Stage IV power-split driveline installed as standard. It combines hydrostatic drive, which is ideal for short loading cycles and mechanical drive for long distances and when driving on slopes. The combination of these two drive types in a single wheel loader ensures maximum efficiency and outstanding fuel savings in multiple applications. Liebherr XPower® wheel loaders deliver standard power-split transmission and 30 percent fuel savings.



Liebherr presents the LH40M and LH22 handlers - Top performers in the material handling industry

The LH 40 M features an Energy Recovery Cylinder (ERC) that reduces fuel consumption by up to 30%. It promotes faster cycles and greater handling capacity. The LH40 is powered by a Tier 4 Final/Stage IV engine developed and manufactured by Liebherr with an output of 208 HP (155 kW) at 1,800 rpm (SAE J1349). Multiple options and configurations are available to provide the best solution for every application; from undercarriages to cab options to attachments. Also on display will be the LH 22 M Handler. This machine is powered by a 4-cylinder Liebherr engine with 134 HP (100kW) at 1800 rpm and has an operating weight of 50,500 lbs. Both handlers come equipped with LiDAT; Liebherr's own comprehensive machine management system for the secure, reliable transmission and analysis of machine data. Based on an ultra-modern communication technology, LiDAT supplies the information needed for machine location and operation, and thus permits efficient remote control of management, task planning and fleet monitoring.



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Powerscreen prepares for Conexpo 2017

Powerscreen, one of the world's leading providers of mobile crushing and screening equipment, will attend CONEXPO-CON/AGG 2017. Powerscreen will be exhibiting on the Terex booth # G3382 in the outdoor Gold Lot at the Las Vegas Convention Centre from March 7th - 11th, 2017. Three machines will be on display: Powerscreen® Premiertrak 600 jaw crusher, Powerscreen® Warrior 600 screen and Powerscreen® Warrior 2400 screen.

Commenting on the forthcoming line up at Conexpo, Colin Clements, Powerscreen Global Product Line Director, said, "Conexpo is the perfect platform for Powerscreen to showcase our innovative products to the market and our strong display of machines do just that. Powerscreen staff and distributors are looking forward to meeting with customers to discuss the features and benefits of our extensive product portfolio."

With over 50 years powering the industry, Powerscreen has developed and maintained an aggressive position in the mobile crushing and screening industry. They will fully demonstrate the versatility of their portfolio with the three machines at Conexpo which illustrate compact design with the Warrior 600, the daddy of all mobile screens – the Warrior 2400 and their branch into diesel-electric machines with the Premiertrak 600.

Warrior 600 screen

The Warrior 600 is the most compact heavy duty mobile screen and makes the Warrior range the widest in the market with seven machines of varying size to meet a variety of customer requirements. Ease of transport is only one of many exciting features on this model. The Warrior 600 screen is

highly versatile with its ground-breaking simple conversion from 3-Way Split mode to 2-Way Split mode which can be completed in minutes. It has been specifically designed for operators for whom versatility, manoeuvrability and transportation are of key importance. The Warrior 600 also features a highly aggressive 2.4m x 1.2m screenbox capable of 6g of acceleration. The high-strength, high amplitude, two-bearing screenbox promotes easy handling and separation of large items from material fines in recycling tasks, such as soils from tree stumps and logs, fines and rock from overburden and blasted rock. User benefits include a rapid set-up time and ease of operation aided by hydraulic folding side conveyors, rigid feed hopper sides and two speed tracks.

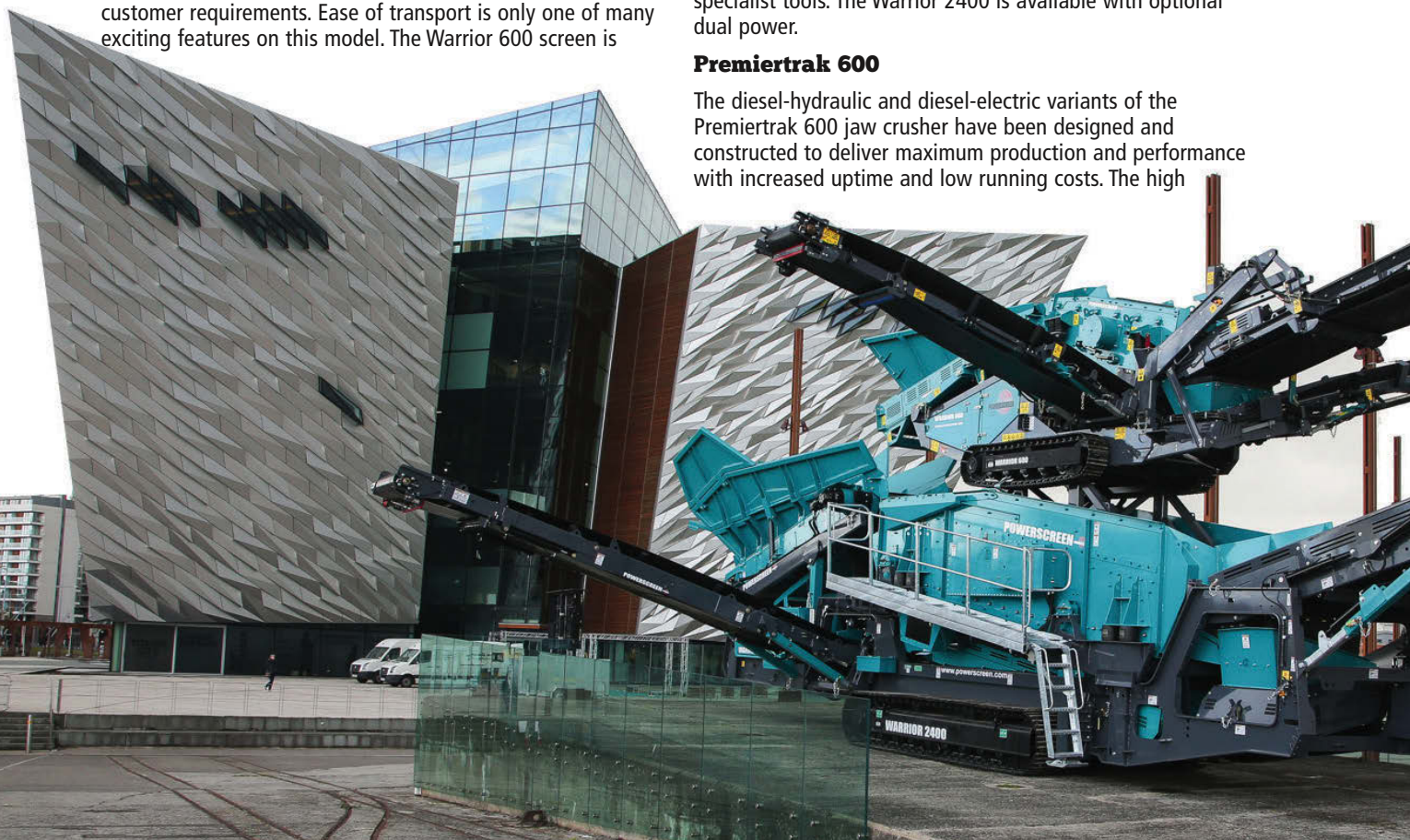
Warrior 2400

Specially designed for large scale operators in the quarrying and mining sectors, the Warrior 2400 screen is capable of handling larger feed sizes and throughputs, whilst remaining convenient to move and transport. It features a heavy duty incline screen with a high amplitude triple shaft drive mechanism, lending it to screening, scalping, 2 or 3 way splitting and stockpiling materials like aggregates, topsoil, coal, construction, demolition waste and iron ore. The screen will accept a wide variety of media making it suitable for many applications.

Set-up time and ease of operation are aided by hydraulic folding tail and side conveyors, 2-speed tracks, a slide-out tail conveyor facility to aid media access and load sensing collection conveyor circuit to avoid blockages. It's simple-to-use electrical control system allows operators to monitor and diagnose the machine on site via an LCD display without specialist tools. The Warrior 2400 is available with optional dual power.

Premiertrak 600

The diesel-hydraulic and diesel-electric variants of the Premiertrak 600 jaw crusher have been designed and constructed to deliver maximum production and performance with increased uptime and low running costs. The high





capacity jaw is fed by a vibrating grizzly feeder with variable speed control and a large grizzly area to maximise removal of fine material to extend the wear life of jaw plates within the crusher chamber. The bypass chute is also fitted with wear-resistant liners as standard, and incorporates an adjustable five-position deflector plate to divert material to either the product or side conveyors.

The machine control system incorporates a state of the art, modern interface with intuitive graphics and high resolution display for ease of operation. This is further enhanced with the automatic start/stop functionality, excellent diagnostic capability and straightforward machine adjustments. The speed of jaw crusher on the Premiertrak 600 can be varied to suit the application and therefore optimize performance. In addition to this, the hydraulic system has been designed and configured to increase uptime and fuel efficiency.

The Premiertrak 600E electric variant is equipped with an over-size genset sufficient to run another plant (it successfully powers the large Powerscreen® Warrior™ 1400XE heavy duty scalping screen) and additionally can be powered from a mains source which substantially decreases the running costs and environmental impact.

With convenience and safety in mind, the Premiertrak 600 can be fully set up from ground level thanks to its hydraulic folding and locking hopper system. It can be adjusted to maximise productivity in any application and can be configured with an independent live pre-screen for the efficient removal of scalped materials either into a waste or a sized sub-base product.

For more information on Powerscreen® crushing and screening products or Customer Support please contact your local distributor. Details can be found at the informative new website www.powerscreen.com.



www.hub-4.com/directory/679

Con Mech Engineers exhibiting for the first time at Con Expo in Las Vegas



Con Mech Engineers, based in Co. Durham, are exhibiting for the first time at Con Expo in Las Vegas from 5th-11th March. Con Mech Engineers are the UK's leading manufacturer of ground engaging tools in the form of cutting edges and wear parts for the mining and construction industry.

Con Mech manufacture for several leading OEM's and for our own branded "Blademaster" range, which are available in a choice of both standard and heavy duty versions to match the demands of the customers working environment.

We manufacture everything in our UK facility: supplied by British Steel, who manufactures ultra clean steel, to produce a chemistry which after heat treating in our world class facilities, gives us the ideal microstructure leading to our superior wear performance characteristics. Con Mech have a long history of innovation and product development. David Waine, Global Business Development Manager stated "We optimise every step of the production process to ensure that the product we supply provides the best value for money through increased productivity and machine availability. For Con Expo we are particularly excited about our Blademaster Extreme – Sub Zero product which is designed for Arctic mining conditions and has superb properties even at -50oC operating temperatures. In recent trials they proved to last longer than the usual OEM product."

Established in 1949, the family owned business export to over 45 different countries and are looking to expand their dealership network in the Americas.



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Terex Finlay to showcase I-140 impact crusher at Conexpo, 2017

Terex® Finlay I-140 impact crusher.

The Terex® Finlay I-140 direct drive $\phi 1270\text{mm} \times 1240\text{mm}$ ($\phi 50'' \times 48''$) horizontal impact crusher with variable speed gives operators unprecedented levels of production in both recycling, mining and quarrying applications. The robust and proven Terex® CR032 chamber gives excellent reduction ratios and high consistency of product shape.

A significant engineering approach being introduced in this model is the material flow through the plant. The flow of material has been significantly improved by increasing the width of components as the material moves through the machine.

The machine features an advanced electronic control system that monitors and controls the speed of the rotor and regulates the heavy duty vibrating feeder (VGF) with integrated pre-screen to maintain a consistent feed of material into the impact chamber for optimal crushing conditions. Material from the integrated pre-screen can be diverted to a stock pile via the optional by-pass conveyor, or it may join the crushed product on the main belt. The standard hopper capacity of 6m^3 (7.5yd^3) places the machine at the forefront in this competitive market sector.

"The introduction of the Terex® Finlay I-140 represents a significant step change in our family of impact crushers. Our field test results of extensive testing have recorded significant productivity increases depending on the application, over the model that it replaces. The enhanced material flow process of the plant represents a significant step change to our engineering ethos and in due course will be extended to encompass our range of impact crushers" said Alan Witherow, Product Manager.

Key Features:

- The ease of material flow through the machine has greatly improved with each component of the machine increasing in width as the material moves through the machine.
- Fully hydraulic apron setting assist provides convenient and efficient adjustment of the aprons.
- Heavy duty vibrating feeder (VGF) with integrated prescreen removes dirt fines and sizes bypass material for reprocessing.
- Optional under crusher vibratory plate feeder with wear resistant liners aids material discharge flow.



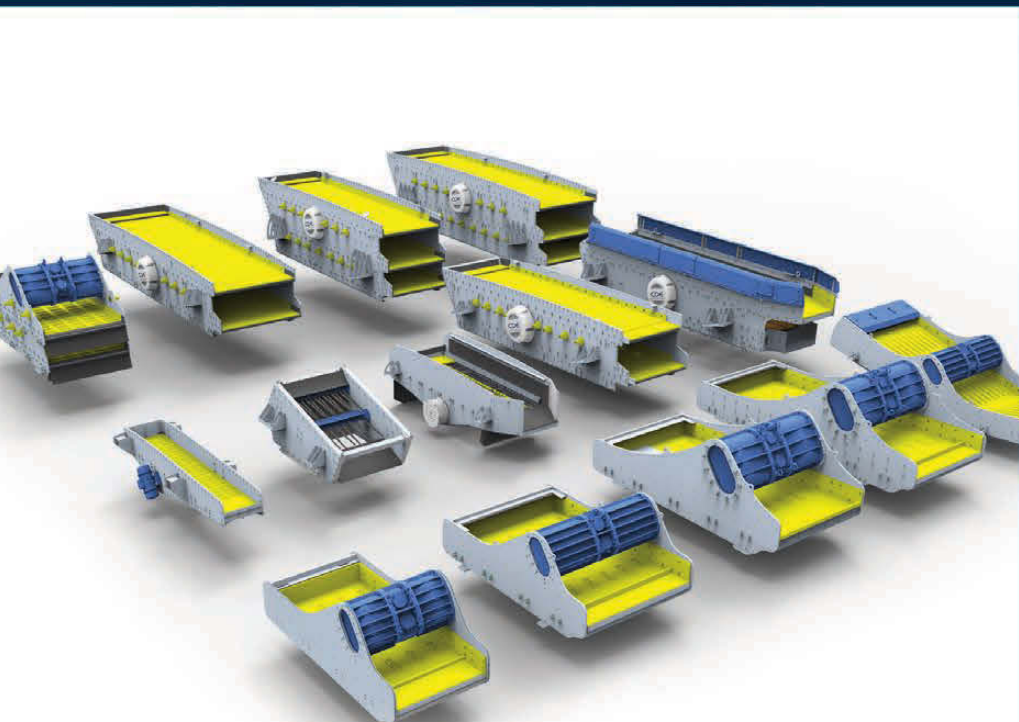
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- Weld free construction.
- High power to weight ratio.
- Cast U-Span cross members.
- Unique VibroSync & VibroCentric drive systems.

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550 tons per hour of washed materials from a single machine: CDE to unveil new sand washing plant at CONEXPO-CON/AGG



Global wet processing industry leader CDE will once again participate in CONEXPO-CON/AGG (on 7-11 March 2017) where the company will unveil its latest innovation, the CDE M5500 wash plant that can produce up to 550 tons per hour of washed materials on a single chassis. A selection of Infinity screens, the company's new development in screening technology, will also be launched on the North American market along with other technological surprises.

Kevin Vallyelly, Head of Product Development at CDE, said: "In 2017, CDE is upping the stakes by unveiling its latest powerful high-tech sand washing plant. CONEXPO 2017 is the ideal launching pad for an innovative washing solution that will answer materials washing operators' needs for more efficient, user-friendly, economical and powerful equipment."

"This latest addition to the M-Series combines feeding, screening, washing and stockpiling onto one chassis, and packs an extra punch with unique features. These include a higher capacity of 550 tons per hour, a five-product capability and triple pass cyclone sand washing."

"The M5500 is suited to organise who are seeking to achieve high production levels with a focus on quality and cost-efficiency."

Adapted to applications in both dry and wet screening situations across a wide range of materials, the new CDE Infinity technology will also be of particular interest to operators looking for sturdier and more economical vibrating screens. Neil Mullan, Design Engineer at CDE, explains: "CONEXPO 2017 offers an ideal platform to launch our new Infinity screen range. We sell over 200 screens every year to the global market, either as part of the modular equipment that we have become well known or as stand-alone."

"The new weld-free Infinity screens can generate the same acceleration as conventional screens with less weight, resulting in a reduction in power consumption and in operational costs, which presents significant benefits to our clients' operations."



According to CDE, its materials washing equipment allows for more accurate material classification than traditional sand washing methods, higher quality washed sand, reduced costs of pond excavation, and reduced risks on site. The final product exits the plant ready for use, having been dewatered to 15% moisture.

Tony Convery, CDE Chairperson, said: "I very much look forward to introducing the M5500 and the Infinity screens range at CONEXPO 2017, which has a global reputation for innovation."

"Year after year, CDE keeps adapting to the evolving market demand for even more high-tech, cost-saving, user and environmentally-friendly materials washing solutions for operators in the construction, mining, industrial sands and recycling sectors."

"The company's sustained investment in research and development seems to have paid off and the production and quality standards that the new M5500 sets bring an exciting alternative to existing equipment on the market."

The company will welcome visitors at its 1,134m² stand in the Silver lot 1 – S5438. The Business Development team, engineers, project managers, after-sales representatives, senior management and members of the Board of Directors will be present to assist customers with their queries.



www.hub-4.com/directory/163

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

Sandvik Mining and Rock Technology will showcase a number of innovative solutions at CONEXPO-CON/AGG, which takes place in Las Vegas, USA, 7-11 March 2017. The focus is, as always, on helping customers to improve their safety and productivity even further, with an emphasis on total cost of ownership, availability of service and parts and inherent product safety.

CONEXPO-CON/AGG gives Sandvik the opportunity to interact with customers from the global construction industry and introduce to them the very latest developments in technology and services, together with the value those solutions can deliver to a customer's operations through the support of its global sales, service and distributor organization. Some of the cornerstones of the extensive Sandvik offering of equipment and services will be on display, demonstrating why it is a supplier of choice in application areas including rock drilling, rock cutting, crushing and screening, loading and hauling, tunneling, quarrying and breaking and demolition.

These include:

Introduction of the Sandvik CS550 cone crusher - the second-stage super producer

Optimizing the secondary step in the crushing process means more money for Sandvik customers. The latest, smartest, high-precision cone crusher for second stage crushing from Sandvik is more than the next generation of crushers. It is an intelligent, uncompromising piece of power built to produce more.

Sandvik QJ341+ mobile jaw crusher

Sandvik QJ341+ is a new addition to the proven Sandvik QJ341 jaw crusher range. This model comes with the added benefit of a double deck pre-screen as standard. The pre-screen enables the removal of fines to increase throughput, resulting in greater efficiency, less wear on the crusher and ultimately higher productivity. This will be particularly effective in quarrying applications with a high proportion of fines in the feed material.

Sandvik UI310+ wheeled impact crusher

Sandvik UI310+ is an electrically driven wheeled crushing unit which offers a versatile and highly efficient primary crushing solution. With the all new patented and highly modularized Sandvik CI512 Prisec™ crusher it offers the flexibility to configure one base crusher into either a primary or a secondary configuration. Purpose designed for the aggregates industry and targeted at the US market in particular, it features a pre-screen to maximize efficiency and is built with many features for ease of operation and low operating costs.

Sandvik QE441 Free Flow mobile scalper

Sandvik QE441 Free Flow is a new variant of our heavy duty QE441 scalper with a two deck 18'x 6' / 5.4 x 1.75m Free Flow screen. This features a rigid scalping top deck and a dual motion lower screen deck for processing high specification &



Sandvik DT91

or difficult to screen materials. This is an ideal solution for screening material such as; soils, aggregates, ores, waste, biomass and other waste derived fuels and products with high moisture contents.

Surface drill rigs - Pantera DP1100i

The Pantera DPi series drill rigs feature a redesigned control system, with updated user interface and touch screen. Featuring the latest user interface style from Sandvik, support for new drill rig options and enhanced troubleshooting functions, the new control system enables easier and even more accurate operations. The Pantera DPi drill rig family consists of two models: Pantera DP1100i for hole sizes of 89 – 140 mm (3 1/2" – 5 1/2"), and Pantera DP1500i for hole sizes of 102 – 152 mm (4" – 6").



Underground drill rigs - Sandvik DT912D

Sandvik DT912D – a self-contained, air-mist flushing, diesel-hydraulic high reach jumbo – delivers high quality drilling in its most advanced form. Designed for fast and accurate drifting and production drilling of 12 to 125 m² (130 to 1,345 ft²) cross sections, the 24-ton single-boom jumbo combines innovative Sandvik technology, creativity and expertise with the vast experience the supplier has gained over decades in the business. Being completely self-contained, Sandvik DT912D is an optimal machine for multifaceted operations, designed to take excavation efficiency to another level.

"We're driving innovation throughout our entire portfolio, from new equipment to ever smarter customer services," says Jeff Heinemann, Vice President, Sales Area USA, Sandvik Mining and Rock Technology. "We are focusing on the numbers that matter, by conveying customer value and lower total cost of ownership of the total Sandvik package. At CONEXPO-CON/AGG, we will showcase a compelling offering of products and services, all designed to benefit our customers' bottom line in terms of increased safety and productivity. Sandvik is at the forefront when it comes to equipment for the construction applications in which we're present, whether it be crushing or breaking, drill rigs or drill bits. What ties it all together are our dedicated people and our offering of genuine parts and services."



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Sandvik QJ341



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EvoQuip launch at CONEXPO-CON/AGG



Terex Materials Processing will launch a new brand - EvoQuip at CONEXPO-CON/AGG 2017. EvoQuip will be exhibiting the Bison 120 Jaw Crusher on the Terex booth #G3382 in the outdoor Gold Lot at the Las Vegas Convention Centre from March 7th -11th, 2017.

EvoQuip offers a comprehensive portfolio of products to address the needs of the compact crushing and screening markets in five key industries: building and construction; quarries; plant hire; farming and agriculture; landscaping and gardening; and asphalt and concrete crushing.

Terex identified an opportunity to bring value to customers in these industries by providing intuitive equipment that is simple to operate and maintain, fuel efficient and easy to transport. User friendliness is at the heart of the brand and as new products are developed the focus will be on simplicity and entry level customers. "We want to reinvigorate the focus on the basics of crushing and screening" said Matt Dickson, Global Product Line Director of EvoQuip.

EvoQuip products will be manufactured in existing MP Centers of Excellence in Northern Ireland with additional support and service from facilities in North America and India to bring customers the high levels of service you expect from Terex. "We look forward to adding more products to the portfolio in 2017 and serving our new customers to a very high standard" concluded Dickson.

Bison 120 Jaw Crusher

EvoQuip will display the Bison 120 which has been specifically designed for operators for whom versatility, maneuverability and transportability are of key importance. It is small enough to fit inside a container for transport but strong enough to withstand the toughest of applications. The Bison 120 features a '680mm x 400mm' single toggle Jaw Crusher that can be adjusted hydraulically using the remote control which comes



as standard with the machine. The Jaw is driven hydraulically allowing the customer the ability to reverse the crusher to clear a blockage as well as being able to run in reverse permanently for sticky applications such as asphalt. The ability to adjust the jaw setting and operate the plant fully from the remote control allows

for a fast and simple set up for the customer. With its intuitive operation, quick set-up times, compact size and ease of transport, the Bison 120 is the ideal solution for all small to medium sized operators.

EvoQuip staff and distributors look forward to meeting you at CONEXPO-CON/AGG 2017. For more information on EvoQuip™ crushing and screening products or Customer Support please visit Terex.com/EvoQuip.com



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HUB Features 2017

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

The HUB magazine is posted out to 6,000+ individually named recipients, and it is delivered to place of work, not their home address. This means that we get to end users and sites, and our 'pass-on' rate is currently at around 3 meaning that our estimated readership is 18,000 each quarter. Plus, our reader-ship don't have to pay any subscription to receive the Magazine.



March 17

QUARRYING - Mobile and static crushing and screening equipment. Crusher spare and wear parts. Screens and screen media.

RECYCLING - Waste sorting and separating equipment and solutions for the waste industry.

BULK HANDLING - Weighing technology, weighbridges, and on-board weighing.

Editorial copy deadline 5th March 2017

Advert copy deadline 15th March 2017

May 17



PLANTWORX Exhibition Preview

WASTE Exhibition Preview

QUARRYING - Dump trucks, excavators & wheeled loaders. Tyres and tyre chains, wheel washing equipment.

RECYCLING - Aggregate recycling.

BULK HANDLING - Conveyors and elevators, feeders, chutes, hoppers and silos.

Editorial copy deadline 5th May 2017

Advert copy deadline 15th May 2017

July 17



STEINEXPO Exhibition Preview

RWM Exhibition Preview

QUARRYING - Track mounted conveyors, stockpiling conveyors, mobile radial stockpilers, tracked feeder stackers. Dust Suppression and Control.

RECYCLING - MRF's / Recycling Plants including feeders, trommels, shredders, picking stations, robotic separation, air-separation, ballistic separation, magnets, flip-flow screens, balers, and fines clean-up.

BULK HANDLING - Gantry cranes, lifting and lashing, chains, storage solutions.

Editorial copy deadline 5th July 2017

Advert copy deadline 15th July 2017

September 17



BULKEX Exhibition Preview

QUARRYING - Turnkey bespoke static crushing and screening plant. Wear parts and wear protection.

RECYCLING - Material handlers, shredders and associated processes.

BULK HANDLING - Storage & handling, level measurement & control.

Editorial copy deadline 5th September 2017

Advert copy deadline 15th September 2017

November 17

QUARRYING - Bitumen, asphalt production plant, burners and other equipment. Concrete technology.

RECYCLING - Mobile equipment for the recycling industry.

BULK HANDLING - Turnkey bulk materials handling systems and associated products.

Editorial copy deadline 5th November 2017

Advert copy deadline 15th November 2017



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TEREX® MPS launch new product and the Simplicity brand at Conexpo 2017

One of the world leaders of material processing technology for modular, portable and static crushing and screening equipment is pleased announce that they will be exhibiting at the upcoming ConExpo Exhibition in Las Vegas, NV, USA.

David Quail, Regional Director for Terex MPS Americas said "ConExpo has always been a great show for us. We not only have US customers visiting the booth but many international visitors as well. We are always pleased to return to ConExpo to show the breadth of our product portfolio. In addition, we have a good story to tell regarding new products, innovations and technology.

We are also excited to be promoting the global re-launch of the Simplicity Brand with its new livery"

Simplicity Brand is re-launched - It's Simple - Evolution

Terex MPS is pleased to announce the re-launch of the Simplicity® A Terex Brand. Simplicity will continue to operate under the Terex MPS umbrella, but Terex MPS believe there is considerable benefit to be gained by relaunching the Simplicity Brand as part of the evolution of their business organization. Simplicity has a strong legacy brand name and this move will strengthen the market position and better leverage its reputation for providing highly customized solutions for customers demanding vibrating equipment requirements.

As part of this relaunch, Russ Burns has been announced as Sales Manager. Russ has a wealth of experience with the product portfolio and has built strong relationships with many of its customers and distribution partners over the years. His dedication, product knowledge and loyalty to the product have positioned him well to play an influential role in the growth and success of this business.

David Quail, MPS Regional Director, Americas said: "We are excited to make this next step in the evolution of the Simplicity brand. We've made significant improvements in many aspects of our business over the previous year and with more improvements planned for 2017. We believe that with all these efforts it will strengthen our position in the market place."



CRC1150S Portable Closed Circuit Plant

The CRC1150S features the tried and tested TC1150 300 HP Terex Cone Crusher and the TSV6203 6' x 20' 3 deck screen. The CRC1150S offers big capacities in a highly portable plant. Other key features include:-

- TSV6203 triple shaft high g-force screen
- TSH6203 triple oversized surge buffering cone shaft high g-force 3-deck screen
- Compact low maintenance "walk-over" flex shaft screen drive
- Quick release, hopper with integrated overflow chute system
- Tri-axle suspension with 57.5" axle spacing
- 42" 20hp main feed conveyor, impact rollers in feed hopper, rubber discharge hood
- Metal detector on main feed conveyor
- 36" 10hp under crusher conveyor with diverging hopper
- 54" 10hp under screen fines conveyor
- Simple transfer and mid-plant product chutes
- Maintenance friendly chute liners; bolted side liners and keyed bottom liners
- 4-section, blending system, to mix 2nd and bottom decks products
- All motors including 300hp crusher motor

MPS 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 equipment. Visit us at booth, G3882, and let us introduce you to our team. For more information on Terex MPS visit: www.terexmps.com



www.hub-4.com/directory/8597

Edge Innovate... Imagine what's next...

EDGE Innovate, one of the world's leading material handling and recycling equipment manufacturers will be attending Con-Expo; the largest construction exhibition in North America. Con-Expo is the international gathering place every three years for the construction industries. Con Expo has become internationally recognized and supported by construction industries from around the world to experience the latest equipment trends, technology and product breakthroughs. The 2017 show is due to attract enormous crowds, with the previous 2014 show winning the top ranking for its record show space of more than 2.35 million net square feet, which attracted over 130,000 attendees over the five day show! The exhibition has already over 2,500 exhibitors due to exhibit at the 2017 show!

EDGE Innovate will participate in the event for the third time running. Exhibiting at booth S5454 and showcasing a range of their material handling and recycling equipment at the event. The event will take place from 7th-11th March 2017 in the Las Vegas Convention Center. The Edge team will be showcasing the latest additions to the Edge Recycling Range; the MC1400 Material Classifier and the FreeFlow 186. As well as these, the huge TRT622 Trommel and TS65 track stacker will be on display at booth S5454!

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 magnet head pulley 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.

The EDGE FreeFlow Screen allows for two screening operations in one unit. Customers can now processed un-screened material via the FreeFlow's robust scalping screen top deck whilst providing a fine screening function of difficult to screen material via the flip flow bottom deck. The EDGE FreeFlow Screen range provides a highly efficient screening solution for sticky, moist materials with a high percentage of fines and is ideal for the processing of compost, wood, skip waste, trommel fines, construction and demolition waste and incinerator ash. The screen has been designed to eliminate the blinding or blockage of the screen media that often occurs with traditional screens when screening wet or sticky material. The flip flow incorporates a heavy duty screen structure which generates a huge throw that propels material upwards and outwards so that the material can get time to untangle and separate. With increased throughput, high efficiency, adjustable speed and throw and quality end products; the EDGE FreeFlow Screen range is the ideal separation solution for difficult to screen materials.





Designed for maximum productivity; the EDGE TRT622 is a highly flexible, multi-purpose screening plant that is ideal for applications such as soil, recycling, composting and C&D waste. Incorporating impressive design features such as a 180° radial fines conveyor, unique load sensing hydraulic drive system and eco-power saving functionality coupled with a user friendly HMI control panel enables for the TRT622 to easily adjusted to suit various applications. A quick barrel exchange is facilitated via the hydraulic sliding feeder, enabling operators to simply lift out the existing barrel to be replaced with the various barrel types available.

The EDGE Sales team & Marketing representatives will be on hand throughout the five day show in Las Vegas to discuss possible solutions and product offerings EDGE has to offer the material handling and waste recycling industries. To arrange a meeting with the EDGE team at booth S5454, please visit our microsite - www.edge-event.com or email info@edgeinnovate.com.

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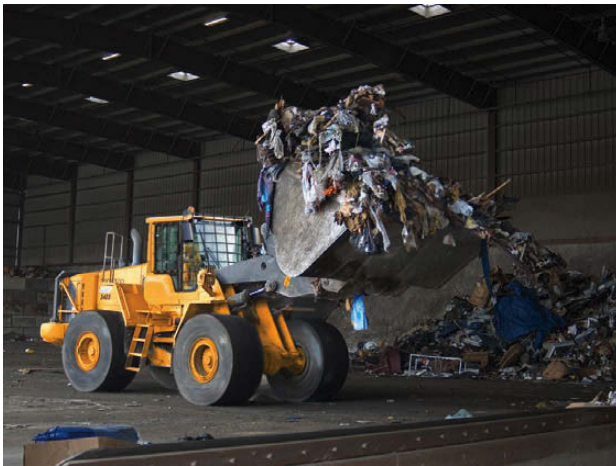
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Confirm your operator's credentials and competence



Recent cases have highlighted the vital need for employers to continue to thoroughly check and assess new employees' operator training and competency before they get behind the wheel of any workplace equipment.

Unfortunately, fraudulent operator licenses do exist, and sadly, in some instances managers do not realise that they have a rogue operator on-site until an accident or even a fatality has occurred. Consequently, it then becomes clear neither had sufficient training or qualifications to ensure the equipment was being operated safely on-site.



Serious financial penalties

Following the emotional devastation, comes the financial penalties, which under UK law can be unlimited. Understanding what the law requires of you, as an employer, is essential. When you employ a plant operator you are responsible for ensuring that your recruit has all the skills and training necessary to safely operate the varying types of equipment, whether that be a crane, forklift, access platform or a piece of mobile plant.

Under UK law, the Provision and Use of Work Equipment Regulations 1998 (PUWER 98) state: "Every employer shall ensure that all persons who use work equipment have received adequate training."

If your new plant operator is involved in an accident, you, as the employer, can be held responsible. It's therefore crucial – for you as an individual and for your business – that you check their credentials.

So how can you know your employee's skills for sure, and how can you protect your business if something does go wrong?

1. Request copies of training documentation

It is good practice to request copies of all training certificates and operator license's, review them and then keep on file. This allows you to determine whether the training they've received is adequate for the tasks required of them.

Bearing in mind that not all training certificates have holograms or watermarks. You should if you doubt whether a certificate or operator card is genuine, forward it to the training provider or awarding body to confirm authenticity.

2. Check accreditation

We advise that if a UK training certificate is awarded by an accrediting body such as IPAF, PASMA, NPORS, MPQC, AITT or ALLMI. You can be confident that training has been delivered to a high set of standards that are in line with all relevant and current legislation.

Many of these accrediting bodies hold a database of all operator training delivered under their accreditation, so, as an employer, you can simply contact them to confirm completed training.

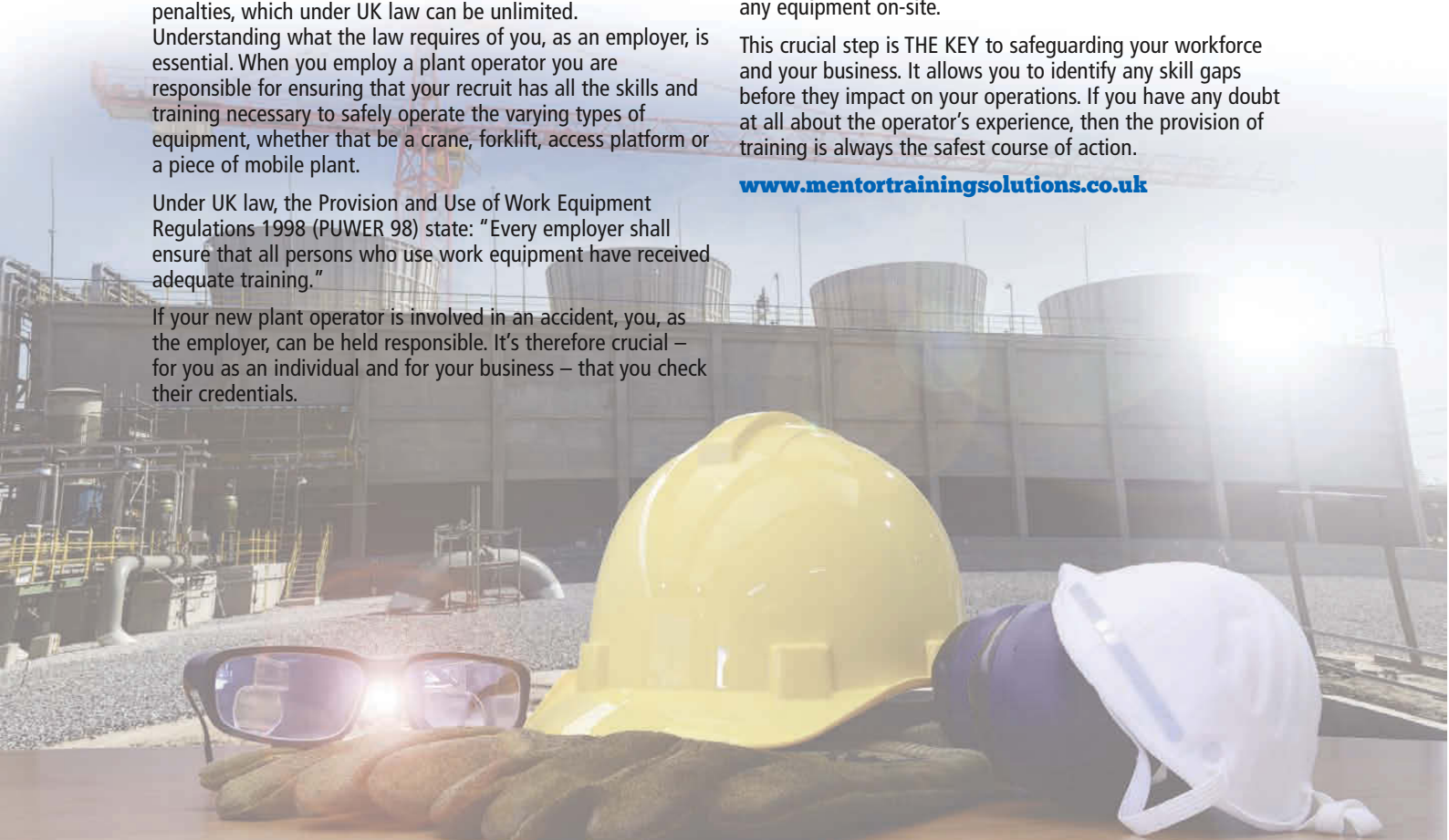
But what if a certificate is provided, that has not been awarded by a recognised accrediting body. Always check the standards to which the course has been delivered and ensure the course aligns to National Occupational Standards?

3. Assess skills

Regardless of whether an operator has received training to an accredited standard or not, their skills and competence must be assessed before they can be authorised to freely operate any equipment on-site.

This crucial step is THE KEY to safeguarding your workforce and your business. It allows you to identify any skill gaps before they impact on your operations. If you have any doubt at all about the operator's experience, then the provision of training is always the safest course of action.

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KIVERCO host their dealer conference and demo day, getting things off to a flying start with a brand new Compact range product launch

Held at the Glenavon Hotel in Cookstown and Kiverco's own production facility in Dungannon, Northern Ireland, HUB-4 were invited to attend the Kiverco dealer conference and demo day. The event was extremely well attended by the majority of their European dealers, eager to learn more about Kiverco's plans, ambitions and new products for 2017. With presentations by John Lines, Adrian Dougan, David Carlisle, Marie-Claire O'Hagan and Kenny Hull, followed by live demos, we were all in for an exciting and informative day.

Kiverco have grown substantially over the last few years and with celebrating their 25th anniversary this year, it was also an ideal platform for them to launch their new 'Compact Plant Range' to their growing dealer network. The new range consists of the FT620 Feeder Trommel, the PS122 Picking Station and the DS150 Density Separator. This range has been specifically developed so that customers don't have to compromise on the way they run their recycling operations in terms of efficiency, throughput, recovery potential, ROI and safety.

The initial three key products in this range have been developed to operate either by integrating them with existing plant that the customer already has, or by running them all together to form a complete recycling system capable of processing up to 150m³ per hour. The machines also have the added capability of operating as standalone units. Designed for the small to medium waste processing operator or mobile contractor operating sometimes in limited space, all these three units can be set up easily within a few hours without the use of cranes. They all feature in-built generators and hydraulic jacking legs allowing them to be easily deployed to sites without any power infrastructure.

All the benefits of a high performance static plant

With twenty five successful years of experience, designing and engineering over 200 static recycling plants worldwide, Kiverco have used all their industry knowledge and expertise in this new compact range. With easy set-up, total power flexibility, less moving parts, complete ease of maintenance, totally adjustable layout, operator comfort, increased safety and low power consumption this range is set to make its mark in the recycling industry. Typical applications include C&D, C&I, dry mixed recyclables, municipal solid waste, land remediation and composting.



FT620 Feeder Trommel

This heavy duty unit is built on the same platform as the very reliable and proven Kiverco stationary trommel and features a 4-wheel drive drum system with superb traction and no drum-slip, fully enclosed drum top covers to keep dust to a minimum and an integrated super-silent diesel generator complete with pre-clean filter and wide core radiator for optimal performance in many different environments. It has a fixed speed drum with easily replaceable punched plate screen apertures and electric drive operation which increases efficiency and eliminates the risk of oil leaks.



PS122 Picking Station

The well designed PS122 enclosed weatherproof picking station is fully insulated for operator comfort and eliminates the need for an additional building. It has low energy lighting and an optional cabin 'climate control' heating and cooling system. With emergency pull cords running the length of the conveyor cabin, emergency stops and isolators on each electric motor the PS122 conforms to all European accredited safety requirements.

The PS122 has a 16m conveyor belt with integrated air and magnetic separation and features 2 to 6 bay sorting to recover clean stone, wood, paper, plastics or whatever is of value to the operator. It can accommodate up to 8 operatives working comfortably.

DS150 Density Separator

The compact DS150 Density Separator combines fast and simple on-site set-up with proven design and build quality to handle a wide range of applications. Its role is to efficiently separate material into usable fractions using the latest in air separation technology reducing the amount of material that needs to be sent to landfill, delivering considerable savings in landfill taxes. The unit features twin recirculating variable speed air blowers which create a closed-loop system to maximise the separation performance and recovery and to minimise dust.

Clean aggregates are produced by removing contaminants such as paper, card, wood, and plastic, and then all this lighter material that has been removed can then be processed for potential sale as an RDF material.

New Dealer Portal & Marketing Support

Marie-Claire O'Hagan, Kiverco's Marketing Manager gave us more information on the brand-new dealer portal and enhanced marketing support. "The new portal has been specifically developed for supporting our global dealer network with everything that they will require for their marketing needs. It features important news and updates, logos and branding guidelines, videos, photos, and all product



brochures. We have also made sure that dealers are well prepared for any client meeting with a whole choice of presentations available for download."

This is really strong marketing support from Kiverco and will help their dealer network achieve consistent new sales globally, and position the Kiverco Compact range as the go-to option for small to medium sized waste processing operators.



Factory Tour & Demo

All the dealers were then taken on a full factory tour to see the Compact range being manufactured in Kiverco's production facility in Dungannon. This 4.3 acre site manufacturing and office space employing a 75 strong team, is fully equipped to cope with the increased production capacity of the new range as well as manufacturing their proven static plants.

We talked with Aidan McKiver, Managing Director of Kiverco about his operation "We have planned well in advance for the extra production capacity that the new Compact range will bring and have also made sure that we have a complete marketing, pre-sales and engineering design team in place here to assist our dealer network with everything that they will need. We are dedicated to manufacturing uncompromisingly strong and reliable equipment, which is our company ethos 'built with backbone', and we pride ourselves on our lifetime support to our customers"

The dealers were treated to a full working demonstration of all the three new compact machines where they could get hands on with the kit and explore all the benefits. The day proved a huge success for everyone attending and finished with individual dealer manager meetings for each dealer to get the most out of their working partnership with Kiverco.

For more information on the new compact range please visit www.kiverco.com or call + 44 28 8773 8811



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The UK's first SPALCK Screen Deck producing quality scrap metal goes to Enablelink Ltd

Enablelink Ltd, a well-known metal merchants formed in 2007 by Roy Millard, has just taken delivery of the UK's first quality SPALCK Screen Deck designed specifically to extract dirty fines from scrap metal to leave a clean final material. The screen deck has been built within a BlueMAC Manufacturing frame at Enablelink's Bilston site, near Birmingham, with the sale, design and construction being via appointed distributors Blue Southern.

Enablelink has invested in a complete solution that not only furthers their scrap metal processing capacity but also, more specifically, enhances the cleanliness and quality of the end-material produced by eliminating dirty fines. Previously, these fines were costing Enablelink around £80,000 a month in revenue due to steel manufacturer knock backs. Ordinarily, the steel manufacturer uses 340-350kWh of electricity per tonne to melt steel however to melt dirty fines they're required to use around 500-600kWh - almost double the amount of electricity required to melt steel. And so, knock backs arose because of the increased electricity cost to the steel manufacturer. With such a heavy revenue impact, several solutions were tried and tested over the course of 3 years however none with substantial results. That is until Enablelink turned to equipment distributor Blue Southern who, with the assistance of its sister company BlueMAC, provided the ideal screening solution. Having reported exceptional results, Enablelink have not looked back since their purchase with the company looking to process over 500 tonnes of material via the plant every day.

The new sound proof system, designed and built to provide a high throughput performance due to its maximum open screen surface, is capable of separating material in accordance to size as well as grading categories. Consisting of an 8 degree decline primary vibratory feeder sized 2200mm wide by 3000mm long, material is agitated and moved along the



feeder by a forward motion. This tailor-made solution also comprises of a 2400mm x 5000mm main screen with an arrangement of 15mm and 20mm screens that enable the fines element to drop down. Operating with a circular motion and driven by a three-phase AC motor, these screens are easy to clean, near to maintenance-free and offer low operating costs due to the high lifetime of wear parts and low electrical consumption.

Commenting on the new installation EnableLink's Managing Director, Roy Millard, said he was very impressed with the product and Blue's fantastic support throughout the process. Due to the quality of the end material produced, Roy also predicted that the machine will have paid for itself within 2 years.

Blue Machinery Southern Salesman, Mark McMullan also highlighted. "The issue of dirty fines within scrap metal is a challenge faced by all manufacturers who make new steel products by recycling waste metal. This innovative concept eliminates that issue, drastically reducing costs for the manufacturers and maintaining the revue for metal merchants such as Enablelink".



www.hub-4.com/directory/2260

Neuenhauser Star Screen from UK Dealer Riverside Machinery Ltd



The unit is being put to work at their Ramsbottom depot where it is screening shredded waste to produce an SRF product.

The extremely compact unit only measures 4 metres long x 1.8 metres wide, thereby requiring minimum space.

John O'Neill of Riverside Machinery comments "we are delighted to have secured what is the first of several Neuenhauser star screens ordered by Wheeldon Bros. Due to the aggressive screening nature of the stars we are able to produce a very clean product with little or no oversize in the undersize material. Something a flip flow or trommel screen is unable to offer"

"In addition, no other screen on the market will offer the same high throughput as a Neuenhauser star screen"

If you would like more information on this fantastic piece of equipment please do not hesitate to contact Riverside Machinery Ltd on +44 (0) 800 689 9024 or john@riverside-machinery.com

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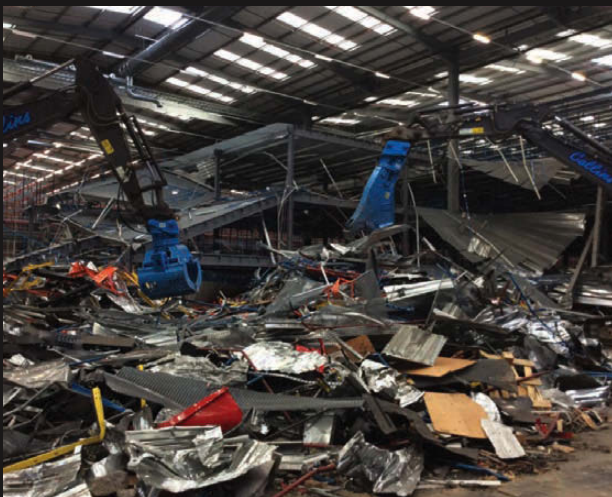
DENSITY SEPARATOR



Collins Demolition expansion means stocking up their attachment arsenal

Award winning demolition attachments from ROTAR are proving to be a welcome asset to the growing success of Midlands based Collins Demolition.

Collins Earthworks Group has been managing earthmoving projects for over 10 years. Based in the Midlands at Kirkby in Ashfield, they provide a fast, flexible, reliable and professional service all around the UK. The Group offer Bulk Earthworks, Recycling, Ground Stabilisation, Demolition, Plant Hire, Civil Engineering and Haulage amongst other services. With over 250 employees and 130 excavators they are established experts in their field. The Group now encompasses Collins Demolition Ltd, established in March last year following the appointment of Scott Craddock as Director. A highly experienced demolition expert, Scott joined the company to help expand the existing demolition operations.



Collins Demolition has excavators ranging from 6 to 75 tons. To work with these they already have a wide range of Rotar grabs, shears and pulverisers, all purchased within the last 5 years from Worsley Plant, the UK's leading attachment specialist.

Recently, at the time of visiting Collins Demolition on site at Magna Park near Leicester, Scott had invested in two new Rotar attachments – a Rotar RSS30 Scrap Shear and a Rotar RG37 Grab.

Scott has been in the demolition industry all his life and used an array of different equipment. Although he'd heard of Rotar, he'd never used their products before. When he joined Collins Earthworks Group to set up the Demolition arm of the company, he had his first insight into the Rotar range and was highly impressed with their versatility, performance and reliability. It wasn't hard for him to realise why the company was already using Rotar and was so committed to their products.



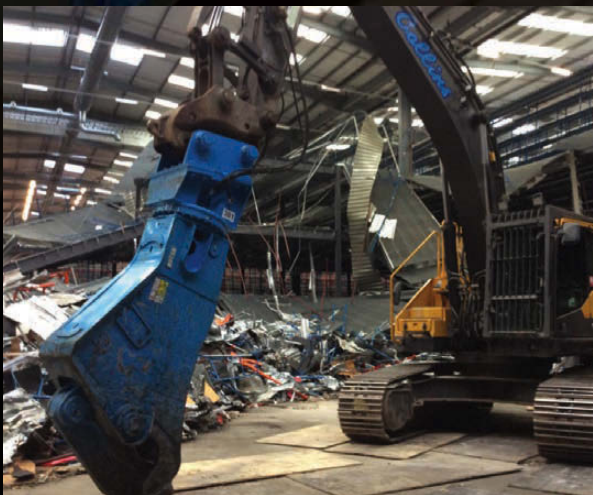
Rotar, whose sole UK supplier is Worsley Plant, has an extensive product line with equipment for excavators and wheel loaders suited to the demolition, construction and recycling markets. As a manufacturer Rotar are continually developing their state of the art equipment and produce products that guarantee operational continuity, minimal operational costs and optimal availability. Rotar attachments are built to last – stronger and tougher than many other products on the market. Rotar, with their striking red livery, have an excellent reputation for power, durability and reliability across Europe.

A recent project involving the demolition of the Sun Centre in Rhyl meant they needed a Shear quickly, so Andrew Purse of Worsley Plant was delighted to sort this out for them. Within two weeks, Scott had a brand new shear ready to use on site. Using it for the first time he was very impressed with the speed and agility of the Shear, coupled with its ability to get into tight places and also its robustness.

The Rhyl job also involved using Rotar Pulverisers and Grabs along with the Shear. The Pulveriser processed 10,000 cubic metres of concrete and the Shear cut 850 tonnes of scrap. It was a two-month job and they had no issues with the attachments, despite their heavy workload. As a result of this Scott too was immediately converted to Rotar.

Collins Demolition is now increasing their Rotar fleet due to an increased demand for demolition work. As a result of this, Scott has developed a great working relationship with Andrew Purse, Business Development Manager for Worsley Plant in the Midlands, whom the company already had a long established history of working with. Not only do Worsley Plant provide Collins Demolition with an excellent level of service, but their quick turnaround times and parts and service record is impeccable. Scott is delighted to be working with them.

Their current job is at a former Primark site at Magna Park in Leicestershire. Collins Demolition are working for the Contractors, PD Industrial, who provide the installation of



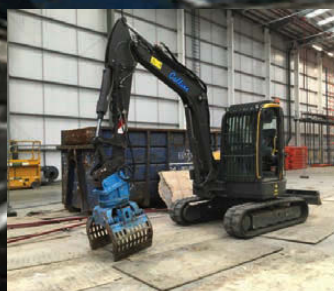
industrial racking and shelving systems, and dilapidation work and refitting. The job involves carrying out a delapse of an enormous former Primark warehouse. This includes dismantling a mezzanine floor of 15,708 square metres – not a small task!! Inside they are putting it back to an empty shell so that it can be re-let by the landlord. Half of the factory is racking made of steel and metal and they are taking all that down. On this specific job Collins are sending all the metal and steel off for recycling. Recycling is key for them on more traditional demolition jobs and they often crush materials on site for recycling. From beginning to end the project is expected to take 6 weeks.

On the job they are enjoying using their two more new Rotar attachments – a Rotar RSS30 Scrap Shear and a Rotar RG37 Grab. Working together these two new additions to their fleet are making light work of ripping down the mezzanine floor and are testament to the company's commitment to working with Rotar in the long term. So much so that they are now looking at future purchases, firstly a Shear for their Volvo 300 machine early in the New Year and a smaller multi purpose attachment. They are also looking at a first high reach machine in the first quarter of 2017, again a Volvo.

Scott says: "I've been converted to Rotar. Their demolition attachments are the best on the UK market and we wouldn't look anywhere else. They are robust, powerful and extremely hard working. We rarely have any problems with them. I'd recommend them to anyone. I wouldn't change them for the world – except the fact that we paint all our attachments blue to match our logo!" As Rotar's strapline says 'get the red crush', in this case Collins Demolition are 'getting the blue crush'!

Andrew Purse adds: "Collins are a key Rotar customer of Worsley Plant who recognise why we recommend Rotar attachments to the UK market. Rotar products have unrivalled speed, power and durability. What more could you want!"

Along with all the Rotar attachments they have from Worsley Plant, Collins Demolition are also considering trialling an MB Crushing Bucket during 2017 to help them more easily recycle materials on site.



For more information about Rotar attachments or other products from Worsley Plant including Crushing and Screening Buckets and fully hydraulic Quickcouplers, please visit www.worsleyplant.co.uk or call 01606 83 55 44.



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PLANTWORX host new Event Arena - The Hub!

The next BIG event in the construction show calendar is the 3rd biennial PLANTWORX Construction Machinery exhibition, which is just five-months away, and will take place at its established home at Bruntingthorpe Proving Ground in Leicestershire on 6th, 7th and 8th June 2017. Hosted by the CEA (Construction Equipment Association), the event is on target to exceed the number of exhibitors at the last show and is already 86% sold with 278 exhibitors. 74 exhibitors are brand new to the event which is 27%.

The show will be 20% larger than the 2015 show – with an impressive 140,000 m² of space.

Without modern, efficient plant the construction industry wouldn't be what it is today. It's machinery that makes it possible to create structures and infrastructure, on time and within budget, so it's vital for construction industry professionals to stay up to date with the latest developments - PLANTWORX is an outstanding opportunity to do just that. The event is the leading live action plant exhibition in the UK and showcases all the latest equipment with live demonstrations.

PLANTWORX has also become the home of innovation and new technology. Companies are investing more into R&D than ever before as customers' demand more efficiency, productivity and safety features from the machines they buy for their fleets – the show is the perfect platform for exhibitors to showcase these products to the UK market.

New at PLANTWORX 2017 is 'The Hub' which is an event arena located at the heart of the show where visitors can take a break from the hustle and bustle of the show. The Hub will 'celebrate' innovation and new technology - activities from The Hub and from the main-showground will be broadcast onto outdoor screens with live video roaming.

All PLANTWORX Innovation Award Winners will be invited to exhibit their winning product in this area and take part in the 'People's Choice Award' where visitors to the show will be encouraged to vote for their favourite product, machine or service.

Productivity will also feature and there will be a focus on Inbuilt Technology where visitors will be able to take a 'walk around' machines which are fitted with the latest in technology solutions for a busy construction site that will improve profit margins and help complete projects safely, on time and on budget.

Security and safety will form part of The Hub which will include exhibits and demonstrations from the CESAR Equipment & Registration Scheme for the Construction & Agricultural Industries and CITS (Combined Industries Theft Solutions).

Additional features will include environmental solutions, machine simulators, autonomous machines and operation, drone demonstrations and much more. An undercover seating area will be located in the center of the arena and other facilities will include a wifi Hotspot so visitors can catch up on emails etc, catering and the PLANTWORX Bar which will open at 4.30pm daily.

On the final day of the show (Thursday 8th June 2017) The Hub will play host to the Primary Engineer and Secondary Engineer Celebration event where 26 local schools will be showcasing their STEM engineering projects.



PLANTWORX has recently launched a new website where you can find out more about the event. There's also a directory of 2017 exhibitors where you can plan your visit to the show by getting all your 'favourite' exhibitor details emailed to you. Registration for tickets to visit the 2017 show is now open – tickets are free.

The PLANTWORX team have confirmed that pre-registration numbers are up on the same period in 2015 which is an excellent indication that there's confidence in the Construction Equipment sector. Visit www.plantworx.co.uk to find out more about the Construction Event of the year!



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NATIONAL FLUID POWER CENTRE UK – “World Class Leader in Integrated Systems Engineering”



The National Fluid Power Centre (NFPC UK) which delivers specialist training in pneumatics, hydraulics, electronics and controls to companies across the UK and internationally, will be holding their

annual ‘Flagship’ Industry Open Day event on Wednesday 15th February 2017.

The event will see some 85+ prestigious Companies exhibiting on the day with an expected overall footfall of 400 visitors.

We expect to, as in previous years welcome ‘New’ Organisations to the Centre. Since our pilot event in 2013, the Business Development Team at the NFPC has proudly grown this event significantly from an original 23 companies to now 85+ which has required the hiring of an impressive 81metre Marquee for the 2017 event.

The day will include guided tours of our outstanding practical training facilities and the dedicated ‘Exhibition Pavilion’ will enable excellent ‘Networking Opportunities’ for all attendees.

Part of our event includes 4 ‘Technical Lectures’ presented by Industry experts, all of which are ‘FREE’ to attend. This year’s event will also benefit from new exciting features,

- 1st year of official ‘Media Partner Sponsorship’ – HUB Magazine
- 1st year of supporting a nominated ‘Charitable Organisation’ – ‘Cash for kids- Hallam FM’ – exciting ‘Raffle Prizes’ kindly donated by companies will be available to win
- 1st year of CPD Approval for our Technical Lectures accredited by the ‘Institute of Quarrying’

Exclusively at this year’s event our Director, John Savage will be presented with the ‘Bramah Medal’, a highly recognised accolade within the Hydraulics Industry.

“The Joseph Bramah Fund was established in 1968 at the instigation of Mr Frank Towler, a Fellow of the Institution (1932-1977), who arranged for its support by industry to commemorate Joseph Bramah, the inventor. This annual prestigious Award, a bronze medal, recognises those individuals for their outstanding achievement, which advance the science of Mechanical Engineering, particularly in the field of hydraulic engineering”.



The NFPC UK is consistently supported by its Advisory & Strategic Planning Group consisting of over 60 major National & International Companies and the ‘Open Day’ will be no exception. Members will support the Centre both as ‘Exhibitors’ & attendees on the day.

EXHIBITORS - Main Exhibition Pavilion:

ABB Group, Abdex Hose & Couplings UK, AMRC, Advanced Components Ltd, Antech Hydraulics, ARTIS, Atlantic Fluid Tech, Balluff Ltd, Beaumanor Fluid Power Products, BFPA, Bosch Rexroth, Brevini UK Ltd, BVAA, DSE PLC, Eaton Corporation, Elobau UK Ltd, Emmegi Heat Exchangers UK Ltd, Enluse UK, ETL Fluid Experts Ltd, ESG Ltd, Fairway Hydraulics Ltd, Filtertechnik, Fil-Trek UK, Flowfit, Freudenberg Sealing Technologies, Global Hydraulic Services, Hercules Hydraulics Ltd, Holmbury Ltd, Hub Magazine, HUSCO International Ltd, Hydraproducts Ltd, Hydac Technology Ltd, Hydrastore Ltd, Hydraulic Design Solutions Ltd, Hydraulic System Products Ltd, Hydrotechnik UK Ltd, Hypro-Filtration Europe Ltd, IFM Electronics, Institute of Quarrying, Kawasaki Precision Machinery UK Ltd, Linde Hydraulics Ltd & Linde Hydraulics Ltd Distributors, LJM Hydraulic Cylinders, M A Hydraulics Ltd, MecWash Systems Ltd, Mitsubishi Electric, MP Filtri UK Ltd, Moog Industrial Group, Neilson Hydraulics, NFPC UK Ltd, Off Highway Brakes & Control, Pall Corporation, Parker Hannifin Corporation, Pearson Hydraulics Ltd, Pneumax Ltd, Poclair Hydraulics Ltd, Quick Hydraulics, RAPRA, RBS Group, Related Fluid Power Ltd, Rockwell Automation, Ross UK Ltd, Rotary Power, Rotec Hydraulics Ltd, SAI GB Ltd, Shell UK Oil Products Ltd, Sick UK, Siemens Plc, SMC Pneumatics Ltd, Star Hydraulics Ltd, Stauff UK, Sunfab Hydraulics, Sun Hydraulics Ltd, The Ashton Group, The Hydraulic Centre Ltd, Terex Trucks, Tidycos Ltd, Tiefenbach Water Hydraulics Inc, Trelleborg Group, Voith Turbo, VHS Hydraulic Components Ltd, VOSS, Webtec Products Ltd, Witham Group, Yarl Hydracentre Ltd.



Reception Foyer:

1017 Marketing, Clumber Park Hotel, Ye Olde Bell Hotel, Hallam FM's Cash for Kids.

This wide range of 'Exhibitors' will display their products including, Seals, Valves, Condition Monitoring, Filtration & Coolant products, Air Blast Coolers, Hydraulic Measurement Control Equipment to name but a few.

TECHNICAL LECTURES - NFPC Building:

ABB (Speaker - Andy Preston)

"Energy Saving "

In this presentation, ABB explain how variable speed control can optimise pump systems. With the ongoing pursuit of more performance & lower running costs being aware that pump designs are reaching the limits of how

efficient they can be. Consequently it is time to investigate how inclusion of a VSD, at the initial design stage of pump system, can maximise the overall efficiency with relatively little effort. In this session ABB will look at simple speed control of pumps & demonstrate practically how they can save energy. ABB will also look at brand new motor technology that rivals PM efficiencies.

SUN HYDRAULICS (Speaker - Paul Haddon)

"Sun Hydraulics Innovation for 2017"

In this presentation, Sun Hydraulics tradition for introducing innovative products & services continues with pace.

This session gives delegates an opportunity to see products that are completely new to our market and support services for designers & engineers applying their products. Sun Hydraulics quick fire session will include Digital Logic Valves, Quick Select & Performance Simulation for Load Holding to assist counterbalance valve selection & next generation Smart Connect for Quick Design offering building control circuits to manifold production smarter and in even shorter time.

PARKER (Speaker - Anand Ramachandran)

"Electro Pneumatic Solutions – Good Reasons for Increasing Complexity"

In this presentation, Parker explain how Engineering is driven by ever increasing expectations of performance & capability. Some would fondly remember the simplicity of their first car; few would give up their SAT NAV, safety features & fuel economy they now enjoy. Delegates attending this session will come away with a clear understanding of where & why intelligent control, communications & safety systems are becoming an essential part of pneumatic technologies.

BOSCH REXROTH (Speaker - Mike Lomax)

"The Impact of Industry 4.0 on Hydraulic Systems"

In this presentation, Bosch Rexroth will be taking Hydraulics into the 21st century & making hydraulics as reliable & usable as Electric Drive Systems.



Programme Outline:

The event will be held at the National Fluid Power Centre UK, Carlton Road, Worksop, Nottinghamshire S81 7HP

9.00 - 9.30am	Arrival/Registration
9.30 - 10.30am	Exhibition Tour & Refreshments
10.45 - 11.30am	Technical Lectures
11.45 - 12.30pm	Technical Lectures
12.00 - 1.30pm	Lunch/Networking
1.45 - 2.30pm	Technical Lectures
2.45 - 3.30pm	Technical Lectures
3.30 - 4.00pm	Bramah Medal Award Exhibition & Prize
4.15pm Close	

For more information and to register your place, please contact the Business Development Team:

Sue Smith & Vicky Cook

Business Development Manager & Marketing & Sales Co-ordinator

Tel No: 01909 504722/504704

Fax No: 01909 504774/504757

ssmith@nfpc.co.uk - vcook@nfpc.co.uk

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Tying it all together

Elite Precast Concrete works with semi-dry and wet-cast, high strength (50N/mm²) concrete products which are supplied to every sector of UK industry

Elite was the first to manufacture interlocking blocks for fire breaks, retaining, blast and push walls and for creating solid barriers between open rail lines and those being replaced to avoid the need for disruptive all line blocks by allowing adjacent live line working.

All of Elite's blocks have a minimum of 100 years design life. The largest interlocking block in the Elite range is called the Legato, the name coming from the Italian for 'tied together'.

One of the benefits of in-situ concrete is incredible long term durability and strength without the expense, disruption, long build time and lack of flexibility usually associated concrete cast on site.

Elite is the only company in Europe to manufacture interlocking blocks using high strength (50N/mm²) concrete.

This allows its Legato blocks to exhibit extreme levels of durability, combined with the flexibility of having their own cast-in lifting pin. As each standard block will build 1.28m² of wall, they provide an incredibly quick solution in a wide variety of applications.

Another block called the Duo block is made from 600mm thick high-strength concrete and has the advantage of not requiring expensive, specialist lifting equipment. The clever design (which incorporates a cast-in lifting pin flush with the concrete surface) allows the blocks to be easily dry laid onto any firm surface, creating bay dimensions to suit almost any site.

Easy installation and rigid construction

The third interlocking block in the Elite range is the Vee Interlocking Concrete block. These blocks interlock horizontally and vertically and can provide radiation shielding (either temporary or permanent) as well as providing a retaining wall.

The blocks interlock with each other using a unique 'V' system along the base, sides and top giving incredible strength and stability.

Precast concrete Kentledge blocks are used to act as ballast or counterweights for fencing, hoarding, scaffolding, or for various temporary works. They can also be attached to wire ropes which are fixed to the structure to provide greater stability.

Its security blocks, interlocking concrete blocks and Vee interlocking blocks all make excellent counterweight blocks for fall arrest systems and heavy lifting as well as most types of temporary works situations.



Elite offers a range of options when it comes to securing your premises against unwanted visitors, to manage site traffic and for use as HGV MOT test weights.

Security components

Elite's large two tonne precast concrete blocks are designed and manufactured to be used as security blocks preventing access to land and buildings and are ideal for blocking entrances and gateways or for use as HGV MOT test weights.

The Security block, Vee interlocking block, Legato interlocking block, and Duo interlocking block all provide security solutions suitable for various temporary works applications.

All systems come with integral lifting options and can be painted in company colours, Ministry of Transport approved chevrons along with other designs and provide a much cheaper alternative when compared to hiring-in barriers.



All of the blocks have their own lifting and placing systems. For traffic management and for safely segregating pedestrians from traffic / vehicles the Elite Interlocking Jersey barrier is an ideal heavy duty system which has been designed for the ultimate in anti-vehicle perimeter protection.

Cast from Elite's standard high-strength concrete (50N/mm²) the barriers are ideal for traffic management, flood defence, site security, rockfall, and edge protection.

Jersey barriers are 2,500mm long and weigh 1,450kg. The unique interlocking system provides incredible levels of security against unwanted visitors whilst allowing sections to be easily removed and repositioned should emergency access be required.

Vertical barriers

Elite's Temporary Vertical Concrete Barriers (TVCBs) are the perfect safety barrier for a huge variety of applications.

- to create a safe working area for the workforce
- to provide flood defences
- protecting pedestrians from traffic
- providing traffic barriers / bases for secure fencing to be fixed to (particularly useful for large public events such as the Olympics / Commonwealth games)
- preventing un-authorised access to forecourts, car parks, fields and site compounds
- helping direct traffic flows safely
- as counterweights, kentledge for scaffolding, fencing, cranes, etc
- proving security against ram raiders and terrorist attacks

The safety barriers are connected together at the scarf joint by M24 high tensile bolts.

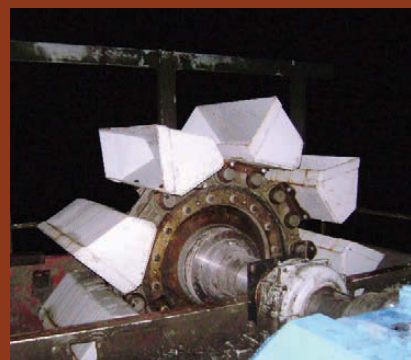
Precast concrete marker blocks are primarily used to aid in the location and identification of electric cables and other utility services that are buried underground. They can also be used to mark boundaries and other reference points.



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BULKOS Bucket Elevators for Vertical Transportation of Bulk Materials

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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CLOSING DATE 12 February 2016.

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We also own Amber Bale & Compact Ltd. (www.amberbale.co.uk), a specialist waste compaction, conveying and baling company that is also the exclusive UK distributor for powerful German fully automatic balers by unoTech GmbH (www.unotech.de).

Due to recent growth and continued expansion, we are now recruiting two Regional Sales Managers to develop both companies across the UK.

The Person We are looking for two self-motivated, ambitious salespeople with the drive and enthusiasm to find and service new business for O.Kay (plant sales) and Amber (product sales).

Ideally based to service London & South or Midlands & North, you will need a good knowledge of the UK Waste industry with an emphasis on Recycling, Alternative Fuels, Security Shredding and Warehousing Waste. You will be familiar with the companies and products that make up these industry sectors and will have worked in them before. Alternatively you will have worked in a Sales role in an associated field such as process equipment, cement, quarrying, baggage handling, conveyors or the wider waste industry.

The Role Each Regional Manager will be responsible for the development of new business and key account management across their territory. Both Managers will report to Director level.

The Package A very competitive package is on offer for the correct person in each region, inclusive of basic salary (£35,000-£55,000 dependent on experience), sales commission, fully expensed car, laptop, mobile, and contributory company pension.

Interested? If you believe you are the person to develop new business in your location, please reply to postbox@okay.co.uk enclosing an introduction letter together with your CV.

HOW TO APPLY

Please send your CV and covering letter to: postbox@okay.co.uk

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Introducing the NEW Terex® Finlay I-140 Impact Crusher



The Terex® Finlay I-140 shapes the future through innovation. This new generation impact crusher with redefined style and advanced technological design gives improved material flow and production capabilities in quarrying, mining, demolition and recycling applications.

Incorporating the Terex® CR032 impact chamber with direct drive and advanced electronic control system the machine provides operators with high material reduction ratios and produces a consistent product shape.

The high productivity, ease of maintenance and operation makes the machine an ideal solution for large scale producers and contact crushing operators.

Key Features:

- ▶ The ease of material flow through the machine has been greatly improved with each component increasing in width as the material moves through the machine.
- ▶ Fully hydraulic assisted apron setting features makes adjustment of the aprons convenient and efficient.
- ▶ Optional under crusher vibratory plate feeder with wear resistant liners aids material discharge flow.
- ▶ NEW chamber design boasts a larger crushing area giving greater product throughput and higher reduction ratios.



I-140



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