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The NEW Terex Finlay J-1170 Direct Drive ...

more info on page 5



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TEREX FINLAY OPEN DAYS

Thursday 15th June 2017 and Friday 16th June 2017

EDINBURGH, SCOTLAND



Be Part of the Action as Terex Finlay Showcase 7 Brand **NEW** Machines!!!

Terex Finlay invites you to our exclusive Open Days on 15th and 16th June in Edinburgh, Scotland. We will be showcasing 7 highly anticipated **NEW** products working in quarry and recycling applications. In total there will be 21 machines on display at the event.

For further information or to register contact:

brian.pauley@terex.com or 07766 417 602



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Open Days - the future?

Having just returned from a very successful open day at JCB and Blue Scotland it has become apparent that open days offer numerous opportunities to focus on applications, or new equipment targeted at a specific audience, especially when demonstrations are included showing the equipment on a working site. They are becoming more numerous indicating that there is a positive ROI for these mini shows.

The HUB has two more open days to attend in the following weeks, one of which is at Avery who are a time served manufacturer of reliable weighing equipment. This will be followed by a trip to Edinburgh to attend the 2 day TEREX Finlay event where a wide of equipment will be demonstrated to an invited audience.

And of course, June is the month for Plantworx so it will be interesting to see how this exhibition at Buntingthorpe performs this year in terms of exhibitors and visitors.

Looking forward ahead, the eagerly awaited open day event for DUO is being scheduled for late July/August and we expect a wide range of equipment to be demonstrated and exhibited.

Looks like a busy few months ahead!

On a final note this is issue number 44 and we at the HUB are all looking forward to next year when we can celebrate the occasion with issue number 50. Time has certainly flown and I can say we are all at the HUB very proud of this forthcoming milestone, the original conversation seems like a million years ago...

John Edwards
Editor



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TEREX® | FINLAY **to showcase 7 new machines at 2017 international open days**



Terex|Finlay will showcase 7 exciting new models at their 2017 international open days at Alex Brewster & Sons, Craigpark Quarry, South Platt Hill, on 15th & 16th June, 2017. In total 21 machines, including 7 brand new crushing, screening and conveying models will be presented working in both quarrying and recycling applications.

The new models being presented at the event are:

1. J-1170 (direct drive) jaw crusher
2. J-1160 jaw crusher
3. I-120RS impact crusher
4. TC-80 conveyor
5. TC-100 conveyor
6. High level stacker
7. 684 3-deck inclined screen

 **TEREX® | FINLAY**

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Finlay introduce exciting array of new machine launches at open days; J-1160 and J-1170 jaw crushers and I-120RS impact crusher

Terex Finlay J-1160 jaw crusher



The next generation Terex Finlay J-1160 primary mobile jaw crusher has been designed with the customer and operator in mind. There are a number of improvements over the previous model such as increased under jaw clearance and all round preventative maintenance and serviceability access.

The heartbeat of the machine is the renowned and aggressive Terex 1000 x 600mm (40" x 24") jaw crusher with a proven pedigree in recycling, demolition and aggregate production applications. The hydrostatic drive gives the operator the flexibility of variable crushing speed and the ability to run the chamber in reverse in asphalt recycling applications.

Key features:

- The robust high performance hydrostatic driven single toggle jaw chamber provides high capacity with large reduction ratio's.
- Fully hydraulic adjustable closed side setting minimises downtime and offers quick adjustment.

- The hydrostatic drive gives the operator the flexibility of variable crushing speed and the ability to run the chamber in reverse in asphalt recycling applications.

Terex Finlay J-1170 jaw crusher

The new direct drive Terex Finlay J-1170 model features the same renowned and aggressive Terex 1100mm x 700mm (44" x 28") jaw as manufactured in the current hydrostatic model. The direct drive jaw chamber with unblock feature offers operators reversible operation in the event of a blockage. Variable chamber speed is available to suit given applications. The crusher features hydraulic assist Chamber CSS (Closed Side Setting) adjustment, and can be changed in a matter of minutes.





The jaw chamber is also available with optional hydraulic release, an excellent feature when crushing construction and demolition debris. The hydraulic release option has an automatic overload protection system to prevent damage by uncrushable items in the feed material.

Key features:

- Compact dimensions and quick set-up make the J-1170 the optimum solution for contract crushing as well as demanding in-pit applications.
- Direct drive jaw chamber fitted with an unblock feature that maximizes uptime
- Hydraulically assisted closed side setting adjustment minimizes downtime and offers quick adjustment.

Terex Finlay I-120RS impact crusher

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

A key component of the machine is the on-board innovative quick detach 3.66m x 1.53m (12' x 5') two deck screen. For applications not requiring recirculation of materials for further processing or stockpiling the complete screening and recirculating system can be quickly detached from the machine and operated without it in a standard configuration or this even allows it to be transported separately if required.



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.
- Quick on-board detachable recirculating system including large 3.66m x 1.53m (12' x 5') two deck screen.
- Recirculating conveyor can be rotated from closed loop configuration or utilized for stockpiling making an additional oversized product.



In addition to the new crushing models Terex Finlay will also be showcasing the latest developments from their screening and conveying portfolio. The recently launched TC-80 conveyor will be working on site with the new J-1170 direct drive jaw crusher.

The TC-80 is a self-powered 80ft tracked stockpiler with impressive features and conveying capacities. The intelligent design allows the machine to be folded small enough to fit inside a 40ft container and be shipped cost effectively globally. The track in and out design lets operators simply track the machine out and fold into working position and start conveying material. Hydraulic angle adjustment and belt speed adjustment ensure optimum performance in every application. A maximum discharge height of 10.5m (34' 6") and capacities of up to 400tph position the TC-80 as a leader in the industry.

NEW 684 3-deck inclined screen

The second generation new Terex Finlay 684 screener being previewed at the open days has been designed with the customer and operator in mind. There are a number of important design updates that set this machine apart from its predecessor.

For ease of on- site movement and rapid setup and tear down times the overall machine and conveyor folding design has been simplified and reconfigured to give rapid on site deployment. The machine retains the original screenbox that features three large 4.3 x 1.7m (14' x 5' 7") inclined screens giving a large screening area of 236 square ft to provide efficient screening and high capacity.



Key features:

- The fourth (oversize plus) conveyor provides variable tilt and slide slew capability to accurately discharge materials for recirculation to crushers or for stockpiling.
- Maximum utilisation of three 4.3m x 1.7m (14' x 5' 7") decks provides ultra-efficient screening capabilities even at small aggregate sizes.
- Screen box angle can be hydraulically adjusted to an angle between 18° - 37°



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For further details contact:

E: brian.pauley@terex.com M: +44 (0) 7766 417602



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The Volvo EC750E is purpose-built to perfectly combine power and stability. This 75 tonne crawler excavator features innovative electro-hydraulic technology that works in tandem with the advanced ECO mode to reduce internal losses in the hydraulic circuit with no loss of performance. Combine this with Volvo's Tier 4 Final/Stage IV compliant D16 engine that simultaneously delivers increased horsepower with industry-leading fuel efficiency and the EC750E is the smart choice for your business, providing you with greater profitability and increased productivity for years to come. **Building Tomorrow.**

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Volvo Construction Equipment



McCloskey introduces new design and innovative features for I54 V3 Impact Crusher

Higher production and more efficient material flow delivered across applications...

McCloskey International has introduced a new highly efficient version of its I54 mobile impact crusher. Following worldwide field site visits, the feedback from the customers has resulted in significant changes to the I54 crusher, including direct drive, an enhanced material flow path, larger pre-screen, and a more open chassis.

Efficiency is boosted with the new crusher design, particularly in the material flow path. Each sectional component is wider than the last to allow an unrestricted flow without funnelling or narrowing, eliminating material bridging. The straight sided chutes manage the material as it passes through each section that is wider than the last – feeder, to pre-screen, and chamber to a wider optional under pan. Both main and side conveyors are now wider to accommodate the larger amount of pre-screen material, and to allow for better discharge from the crushing chamber.

The direct drive crusher rotor is also a new feature on the I54v3, bringing more power, along with lower fuel costs. The redesigned open chassis allows for better access, and a hydraulic adjustable magnet contributes to easier operation of the crusher.

The I54v3's new larger 8' double deck pre-screen brings more efficient fines removal to production, maximizes the crusher's productivity, and delivers screened product via a straight chute to a new, wider 32" side conveyor.

The I54v3's versatility and upgraded design makes it ideal for some of the toughest applications worldwide, including asphalt recycling, concrete recycling, rock crushing, construction and demolition.



"Talking to our customers and gathering their feedback is what allows us to continually evolve our products. The re-design of the I54 has resulted from the collaboration between McCloskey and our customers," said Paschal McCloskey, President and CEO of McCloskey International. "They rely on us to continually improve our products, and the feedback we get from them allows us to deliver the most productive, and relevant, equipment in the industry. We will always look at new and innovative ways to develop our products to meet the unique challenges of projects around the globe,"



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Unexpected increase in space at steinexpo 2017 creates more opportunities

The scale and magnitude of rock mining is directly linked to the demand for the raw material. This is the reason why the excavation level in the trade fair quarry forecasted for the time of the steinexpo 2017 exhibition has been reached earlier. The quarry is operated by the Mitteldeutsche Hartstein-Industrie AG (MHI) in Homburg/Nieder-Ofleiden. Specifically, this means that the area available for the demonstration exhibition will be larger than originally expected. This provides more companies with optimal presentation opportunities.

The available total surface area for the tenth steinexpo next year was an estimated 180,000 m², as at the previous event. According to recent reports from the quarry, the accelerated rate of mining operations specifically in the demo areas B and C makes it possible to expand the exhibition area by about 40 additional spaces. This provides companies who are interested in a smaller exhibition space with new possibilities. The overall increase of more than 1,000 m² additional net space benefits exhibitors on area C who want to attract attention to their mineral processing equipment and technologies. Area B, which also gained from the increase, is mainly used for exhibits by manufacturers and suppliers of construction equipment.

This unexpected growth is a great plus for this "ground-breaking" quarry demonstration exhibition on the European continent, which already has a positive standing in the market. According to current bookings, interest in exhibiting at steinexpo 2017 is exceptionally great. According to the organiser Geoplan GmbH around 170 exhibitors representing about 250 different brands have already confirmed their booking.

This means that about 90% of the available space is already occupied. Exhibition Project Manager Andrea Friedrich also confirms: "Exhibitors are not only highly interested in the open areas, but now also in the open pavilion concept that we first introduced at the previous steinexpo, especially everyone who was there and understands how its implementation works. Stands in the planned halls with a surface area of 2,000 m² are being booked at a fast rate. This means that the hall will be fully booked much earlier than last time."

It seems certain at this stage that on its 10th anniversary the steinexpo will grow compared to previous events. There are also some very interesting new attractions for visitors on offer, such as the spectators' stand for 250 guests at the joint demos of different construction machinery brands on the low-lying area A and the two 30-metre high lifts against the quarry walls between areas B and C and C and D for optimal visitor flow with shorter walking distances.

Trade fair director Dr. Friedhelm Rese is also very pleased with the fact that communication via the steinExpo 2017 Facebook page is noticeably picking up speed again and helping to up the "exhibition fever": "Our presence in social media is a great way to rapidly disseminate new information about the events leading up to and during the fair. It also provides an excellent base to bring the opinions of seasoned professionals and young prospective customers together. The live nature of the offer and the exchange of opinions via the page have been well received. From being an initial doubter myself, I have become a big fan of this type of communication."

www.steinexpo.eu



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Directors Austin Carey left and Eugene Donnelly right with Danny Morgan

Blue London Appoint Danny Morgan as Sales Director

Blue Group are delighted to announce the appointment of Danny Morgan as Sales Director of the Crushing and Screening Division at the Blue London Office, following outstanding success in developing the 'Blue Used Equipment' part of the business over the last 18 months .

Danny brings with him a wealth of experience having joined the industry back in 1998, and has a proven track record in not only growing sales, but also overseeing long term strategic development. Over the years Danny has worked for numerous machinery brands, developing long-lasting customer relations within the market. Having worked in The States as well as Europe throughout his distinguished career, it has meant that Danny has not only built considerable product knowledge but also acquired a strong understanding of the crushing and screening industry in general. His achievements for Blue within the 'Used' sector have been quite remarkable, selling over £7million worth of equipment to customers across the globe in 2016.

On his appointment Danny commented, "I'm very excited to be taking this next step in my career with Blue Machinery. We have a great customer base in London who know the value of high quality, reliable machinery to their businesses, which gives me confidence that we can meet our ambitious plans for the future. I am looking forward to getting started, speaking to customers old and new to ensure we continue to deliver valuable, ongoing solutions to our clients"

Danny's main responsibility will be to develop sales in the crushing and screening sector, across both Blue London's loyal customer base, built up over the last 25 years, and with customers in new market segments through being able to offer both the Powerscreen and recently launched EvoQuip brands. Access to both these class leading brands means access to a vast range of equipment to suit all businesses, budgets and applications. Danny will also be developing the sales function at Blue London, managing the London salesmen as well as looking to extend the team.



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Landings at marine wharves increase

Despite an overall decline since the start of the century, the total volume of aggregates handled at rock wharves in Great Britain has gone up in the last year.

There has also been an increase in the number of operating rock wharves suggesting the sector is on the increase, reports BDS Marketing Research. These are some of the findings of a new sector report, published for the first time by BDS, entitled "Estimated landings of aggregates at rock wharves".

"In the last two years, companies operating rock wharves have increased the volume of material handled by almost 10%" said Andy Sales, author of the report. "This is expected to increase further following the recent introduction of additional facilities."

During the research, BDS reviewed more than 50 wharves to identify those being used to land crushed rock during 2016. A total of 18 facilities were identified which, between them, are estimated to have handled almost 3.5 million tonnes of aggregates during the year. (The report excludes marine-dredged sand and gravel which is detailed by BDS in a separate report.)

The majority of the rock wharves are in the south east and east of England, where there is limited indigenous supply. The main sources of the aggregates, which include high PSV stone, are coastal quarries and wharves in Scotland, Norway and Northern Ireland.

The on-going development of sea-borne deliveries provides a low-carbon route to market, making it attractive to both the government and aggregates companies targeting reductions in carbon emissions.

The report estimates the volumes and market shares, of all of the companies operating rock wharves by county, region and nationally. It also includes comments on newly opened facilities as well as commenting on the planning perspective.



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Rob Symons
Director CRJ Services

"Together we have a market-leading portfolio of machines which are multi-purpose and suited to handle any type of material. However, it's not just about the machines. We pride ourselves in providing an honest, transparent and efficient service that adds value to our customers."



Ben McQuaid
Director Matpro Machinery

"Our new partnership will mean both Matpro Machinery and CRJ Services are equipped to offer more enhanced purchase and hire services. With a parts stock holding valuing over £1 million and 17 trained engineers, we have exceptional aftersales capabilities to help satisfy increasing customer demands."



MPA welcomes 2nd Extractive Industries Transparency Initiative report

The Mineral Products Association (MPA) has welcomed the Department for Business Energy and Industrial Strategy (BEIS) 2nd Extractive Industries Transparency Initiative (EITI) report for 2015, detailing payments to Government agencies and data from oil, gas, mining and quarrying companies.

Launched in Aberdeen on 31st March by BEIS Minister Margot James MP, the report, which aims to increase transparency across the sector, includes information from 18 mining and quarrying companies in scope covering employment, the fiscal regime, payments made for UK extraction of raw materials and government receipts. Ian Waddell of Aggregate Industries, Chairman of MPA Scotland, represented the quarrying sector as part of a panel discussion following the launch. Breedon Northern organised a site visit for stakeholders to one of their local quarrying operations at Tom's Forest Quarry.

Commenting, Nigel Jackson, Chief Executive of the Mineral Products Association said: "EITI is not only valuable because of the transparency it is creating for the extractive industries with regards to payments to Government but the recognition of the significance of mining and quarrying to the economy and employment. This is welcomed and MPA will continue to support the building of the contextual data that is vital to the process".

EITI, which is a global transparency standard in the UK, is governed by a multi-stakeholder group (MSG) composed of representatives from the government, the extractive industries and civil Society. The body sets the direction for EITI implementation by formulating country objectives, engaging stakeholders and publishing an annual EITI report.

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The unique design of the Smiley Monroe booth turned heads on the Bronze Lot. Custom-built, the booth was the company's largest investment in an exhibition to date and was designed in-house by Marketing Director, Tim Monroe and built by Exhibit Fair International (Las Vegas).



The Giants of Belting conquer ConExpo

Smiley Monroe are riding high on the back of their most successful trade show ever at ConExpo-Con/Agg in Las Vegas, having already secured a six-figure order from one of North America's biggest groups. This order contributed to the company posting a record sales month in March 2017 - the best in company history.

Exhibiting for the first time independently at North America's biggest construction show, the company made their largest investment in an exhibition to date with a custom-built booth on the Bronze Lot - demonstrating the company's commitment to the North America market, where they have continued to grow exports of endless conveyor belts and custom rubber parts to OEM customers in the mobile 'portable' materials processing equipment manufacturing sector.

Chris Monroe, Global Sales Director commented, 'At ConExpo we announced our plans to have a presence in North America to be closer to our customers. Feedback from the show has only bolstered our confidence in pursuing this strategy. We want to cultivate new business in the region and better serve our already established OEM customer base by rolling out our proven 'Just -in-time' delivery model. The first step will be in-country sales support.'

Embracing the theme of ConExpo, #ImagineWhatsNext, visitors were introduced to Smiley Monroe's world via a Virtual Reality pod. Tim Monroe, Marketing Director explained, 'VR proved to be a fantastic way to educate customers about our diverse range of products and hopefully left a lasting memory of the Smiley Monroe booth. We've tried to bottle our ConExpo experience by creating several short videos which you can watch right now on our website and social media channels.'

Attention has now turned to follow up and maximising return on investment from ConExpo and with a large order already secured, the early signs look promising. To meet increased demand for their endless conveyor belts and custom rubber parts, Smiley Monroe is investing £1 million in a new production centre at their Hub site, which will incorporate a state-of-the-art waterjet cutting machine. With several expansion plans already in the works, 2017 looks set to be a milestone year for Smiley Monroe.



The memorable bronze Giant generated a great buzz around the Smiley Monroe booth and literally brought to life company's #GiantsofBelting

 www.hub-4.com/directory/5684

CASE shows its new ranges at Plantworx 2017

CASE Construction Equipment will present its new and upgraded machine ranges and will host the UK heat of the CASE Rodeo competition at Plantworx 2017.

Making their first UK appearance since their official launch in January and March respectively, will be models from the new C Series mini excavators, upgraded Tier 4 final backhoe loaders and the new G Series wheel loaders, all of which will feature CASE's new livery.

There will be an impressive display of machines designed for all sectors of the construction, quarrying, rental, and waste and recycling industries, equipped with the latest emissions-compliant engines and fuel-saving technology. These will include crawler excavators ranging from the midi CX75C and CX80C up to the heavy range D Series CX130D, CX245D SR, and CX290D MH, as well as the 1150M dozer, plus a 690ST backhoe loader and a TR270 compact track loader.



As well as viewing the new machines there will be plenty to see and do at the CASE stand as Plantworx will be the venue for the UK qualifying round of the CASE Rodeo Challenge. Here operators are invited to test their skill and speed to win a place representing the UK at the finals which take place in Paris later in the year. The CASE team will also be available to explain about the latest innovations across all the lines, CASE SiteWatch telematics, plus maintenance programmes and the latest competitive finance options.

CASE New G Series - performance and design innovation

In its 60th year of wheel loader production, this latest generation of wheel loaders demonstrates how the company continues to innovate and set industry standards. There will be three models on show - a 721G MH XR, 821G Z-bar and 1021G Z-bar, from a total of seven (from 11.1 up to 30 tonnes). Powered by efficient EU Stage IV/Tier 4 Final diesel engines means there is no Diesel Particulate Filter (DPF). As well as delivering proven CASE productivity, good fuel efficiency and outstanding performance, visitors will have the opportunity to see for themselves the revolutionary new cab. Designed with operator comfort 'front of mind', key benefits include best-in-class visibility, breakthrough comfort and outstanding operator protection. This is also CASE's quietest, most comfortable cab ever available.

New C Series minis offer the complete package

There will also be three of the new minis on display: a CX18C, a CX26C and a CX60C. With six models currently available (from 1.7 to 6 tonnes), and more to be added later this year and in 2018, there is a model to suit any application. CASE's new Series minis are a technological landmark for the mini excavator market. Designed specifically with the hire and rental sectors in mind they offer high performance, maximum comfort and improved safety. They benefit from proven engines and hydraulic systems that deliver more power and increased performance, and five of the six new models comply with Tier 4 Final emission standards. Daily maintenance is fast and easy, with service points accessible at ground level. Safety features on this range include ROPS, TOPS and FOPS compliance, emergency stop switch, travel alarm and object handling kit, plus outstanding all round visibility, and a rear view camera further enhances safety on the jobsite.

CASE Tier 4 compliant upgraded backhoe loaders

The new upgraded T Series backhoe loaders will be represented by the 690ST. All three models benefit from CASE's unique SCR-only solution, which ensures a powerful performance with outstanding fuel efficiency - eliminating the need for Diesel Particulate Filter or regeneration. The efficiency of the Selective Catalytic Reduction (SCR) after-treatment system has been optimised so that Tier 4 Final standards are achieved without a Diesel Oxidation Catalyst. The choice of new 'in-line' backhoe geometry is now also extended to the full range and customers can choose from the well-known CASE boom with overlapping cylinders and outer extendahoe and new in-line design on all three models.

CASE - machines for all applications

The CASE D Series crawler excavators line-up have gained a fierce reputation for their performance, productivity, reliability, and low running and operator costs thanks to their Tier 4 Final (Stage IV) maintenance-free technology. On show will be a CX130D, and a CX245D SR - the most powerful and efficient minimum swing radius excavator CASE has ever introduced, designed for increased digging and lifting power in confined work areas. There will also be a CX290D materials handler which brings the performance advantages of the D Series line to the scrap and waste handling industries. With an operating weight of 72,100 pounds and lift capacities of up to 24,650 pounds it is designed specifically for use with grapples, magnets, shears and other attachments used in the scrap and waste industries.

Completing the heavy machine display will the 1150M dozer, which offers best-in-class drawbar pull, exclusive SCR technology, maximum visibility, a quiet cab, adjustable operator controls and time-saving serviceability features.

As well as the new C Series minis the compact range display will include Tier 4 Final midi CX75C and CX80C excavators. Ideally suited to urban construction and road



building applications they offer industry-leading emissions performance plus a choice of three boom systems, four auxiliary hydraulic control systems, three track options and two dipper-stick lengths. There will also be a CASE TR270 compact track loader from a range that delivers some of the best breakout forces in the industry and one of the widest cabs available.

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Con Mech Engineers Strengthens the Sales & Marketing Team



Con Mech Engineers have made a number of important changes to their Sales and Marketing department, at an exciting time in the company's development.

Graham Bradshaw has joined the company as Sales & Marketing Manager and heads up the new team, responsible for the Ground Engagement Tools and Heat Treatment divisions of the company. Graham has a wealth of experience in the steel & construction equipment industries in UK & International markets.

Mark Thompson has joined as Business Development Manager for the Heat Treatment Business. Mark takes up this new position to spearhead development of Con Mech's specialist Heat Treatment Services business.

Sam Haygarth has long been a popular member of the team at Con Mech and is promoted to the new role of Customer Operations Manager, for the Ground Engagement Tools and Heat Treatment divisions of the company. She will continue to look after her loyal group of customers, while also managing the office team and ensuring a great service for our customers.



www.hub-4.com/directory/16958



Bunting Expands the Sales Team

Bunting Magnetics Europe Ltd has expanded their UK sales team with the appointment of two new sales engineers. The appointments follow a period of sustained sales growth and the acquisition of Master Magnets.

Bunting Magnetics is one of the world's leading suppliers of Magnetic Separators and Metal Detectors. The European manufacturing headquarters are based in Berkhamsted in Hertfordshire, UK and they have an extensive overseas network of distributors and marketing agents. In January 2017, the company acquired Master Magnets, significantly expanding their range of Magnetic Separators and Metal Detectors.

Tom Higginbottom joins Bunting's external sales team and has an engineering background, with particular knowledge of hydraulics. Tom's focus will be face-to-face customer contact, providing onsite support and advice on solving metal contamination problems.

In a new internal role, Gordon Kerr is responsible for business development. Gordon previously held a sales and marketing position at Anglian Home Improvements before becoming a Project Manager at Ceramica & Stone.

"There is a real positive vibe in the company," said Gordon, "and I am looking forward to contributing to the company's success."

Dave Hills, Bunting's Head of Sales, explained the reason for the appointments.

"Meeting clients at site continues to be one of our top priorities. It enables us to get a better understanding of the problems faced by the client, which ultimately results in being able to offer better solutions. As we [Bunting] have grown and expanded, the demand for visits has increased and appointing Tom was a natural progression. Tom has a wealth of engineering experience and is an exciting addition to the team."

"With Gordon, we have a new focus on business development. He will be working very closely with the external sales team, identifying potential clients and arranging meetings. His appointment marks the proactive action we need to take to reach out to new customers."



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CMS Cepcor make further manufacturing investment

CMS Cepcor® have further increased their CNC manufacturing capacity with the purchase and installation of a new Doosan Puma VT1100 high power vertical turning centre and a new Correanayak Norma 25 CNC bed type milling machine.

Doosan Puma VT1100:

The VT1100 is the largest machine in the range and will be used in the manufacture of large precision machined crusher spare parts (typically spider bushings, rotary seal rings and counterweights) and has a maximum working range of 1100mm (43.3") Ø x 1000mm (39.4").

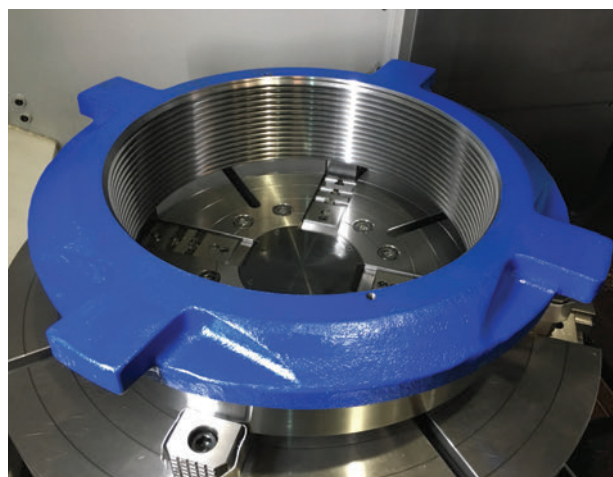
This new Doosan purchase will add to their existing fleet of Doosan CNC machine tools that include the Doosan Puma 700XLM, 700L, Puma 400XLB, Puma 400LB and Lynx 300 turning centres along with a Mynx 7500 vertical machining centre.

CMS Cepcor® also operate a state-of-the-art Honor Seiki VL-160CM custom CNC vertical turning centre, in addition to a substantial manual machining capacity.

Correanayak Norma 25:

Additionally, the company have further increased their CNC manufacturing capacity with the purchase of a new Correanayak Norma 25 CNC bed type milling machine.

The Norma machines can be used for heavy duty roughing operations and also for highly accurate finish machining of complex components proving them to be incredibly versatile for CMS Cepcor® (the new machine bed also incorporates a rotary table for added flexibility).



This machine adds to their existing Correanayak Norma 25 and Norma 45 bed mills and will help meet the growing global demand for high quality UK manufactured crusher spare parts.

A commitment:

With the Doosan Puma VT1100 already operating and the Correanayak Norma 25 to be installed at their Coalville technical centre, both these new machines demonstrate the company's commitment to re-investment and UK manufacturing.

CMS Cepcor® operate an extensive and modern UK manufacturing facility in Coalville, Leicestershire, which includes CNC, milling, turning, boring, slotting, grinding, drilling, welding, co-ordinate measuring and material testing.

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Ecohog Shortlisted for the Prestigious Made in Northern Ireland Awards

We are delighted to confirm that Ecohog have been shortlisted for Manufacturer of the Year Category at this Year's Made in Northern Ireland Awards.

The Made in Northern Ireland Awards, hosted by Insider Media Limited now in the fourth year running reward the excellence of the country's manufacturing sector and recognise achievements of innovative and productive businesses.

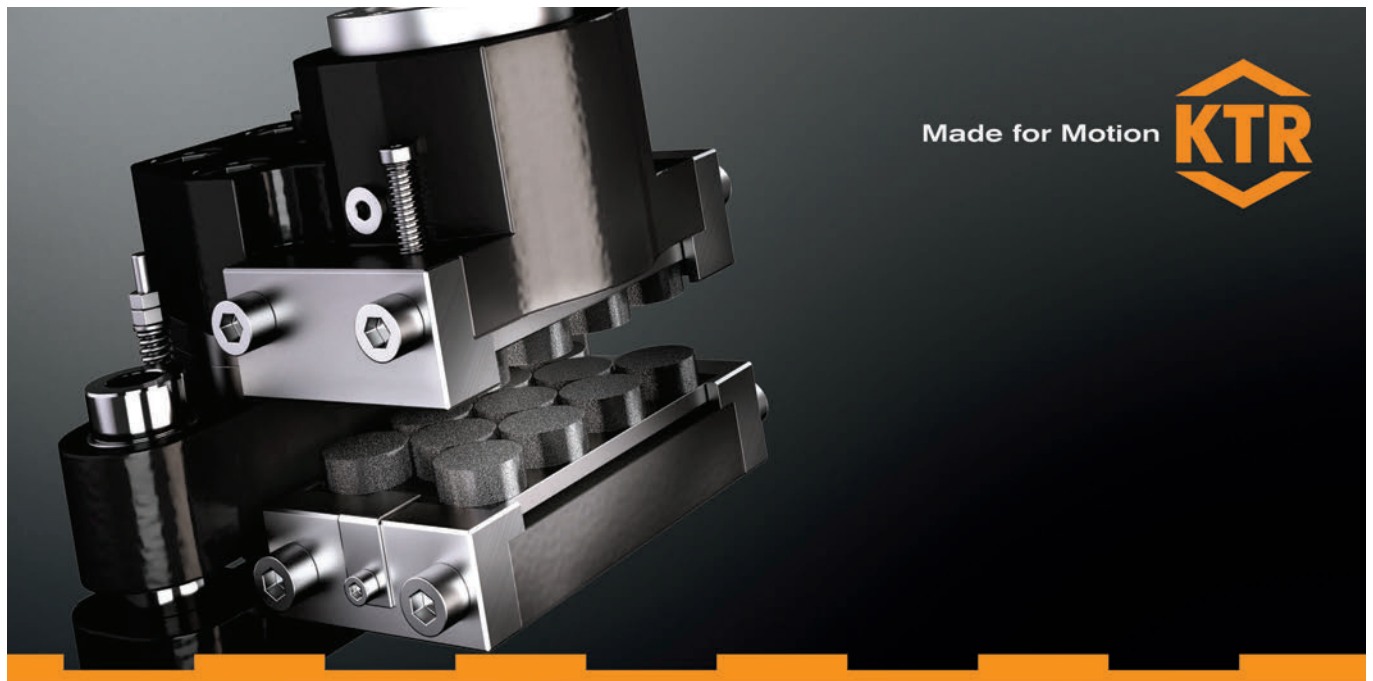
This year's event which is sponsored by Tughans and HSBC in association with the Department for International Trade will take place at the Europa Hotel Belfast on the 12th May. The winners of each category will automatically be entered into the National Manufacturing Awards due to be held in Liverpool on the 22nd June.

The judging panel for the awards included representative from Manufacturing NI, Invest NI, the NI Centre for Competitiveness and the NI Polymers Association.

Good luck to everyone shortlisted in the various award categories.



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Plantworx – the UK's Largest Working Construction Equipment Show – the waiting is almost over!

PLANTWORX
6th - 8th JUNE 2017
BRUNTINGTHORPE

PLANTWORX - the UK's largest 'working' construction equipment machinery exhibition is just days away (6th - 8th June Bruntingthorpe Proving Ground, Leicestershire). The PLANTWORX team and the show's hosts, the CEA (Construction Equipment Association), are inviting Hub-4 readers to come along to the event and check out the very latest construction machinery on the market.

Visitors to the show, which spans over 140,000 square metres, will see the very latest plant and machinery operating in 'real' site conditions – compact plant will feature alongside mid-range equipment, tools and services. The exhibitor list reads like a 'who's who' in the Construction Equipment market with all the key OEM's exhibiting including Caterpillar, JCB, Volvo, Takeuchi, Kubota, Case Construction Equipment, BOMAG, Terex – the list goes on!

Many exhibitors will be encouraging visitors, who present the correct operator's licence, to try the kit first hand and put the machines through their paces on one of the many demonstration areas. Visitors will also see hundreds of brand new products including many world-firsts!

Rob Oliver, chief executive of CEA said, "Walking the Plantworx trade show site at Bruntingthorpe is an impressive experience. Exhibits will occupy an area equivalent to all of the Premiership football teams' pitches added together!"

The UK's largest 'working' construction event has at last count 380 exhibitors committed to the show and of these more than 150 will be exhibiting at the event for the very first time. Over the course of the show more than 15,000 visitors are expected to attend. The 2017 Plantworx event is looking like the hottest ticket in town and a spectacular action packed 3-days!

New at Plantworx 2017 is 'The Hub' which incorporates a Wi-Fi Hotspot and Innovation Zone.

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 – The new Plantworx Hub is the opportunity to do just that.

Plantworx has 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 fleet.



Colin Evison, head of innovation at Bam Nuttall is a keen supporter of Plantworx, he said, "Plantworx presents contractors with a vast array of the latest construction plant and equipment on display and being demonstrated all in one place. It enables us to keep up to date on the very latest additions to the construction industry so that we may continually improve the way we deliver and maintain infrastructure."

The Hub is located at the heart of the show, where visitors can take a break from the hustle and bustle of the event, catch up on emails, messages and do business whilst doing business!



The Hub will focus on innovation and new technology - activities from The Hub and from the main-showground will be broadcast onto outdoor plasma screens.

The Plantworx Innovation Award Winners will be 'celebrated' in the Hub area where their winning products will be presented in video format and some will have products on one of the display areas. The 'People's Choice Award' will also take place in the Hub - this is where visitors to the show will be encouraged to vote for their favourite product, machine or service that won or was shortlisted in the Plantworx Innovation Awards.

An undercover seating area will be located in the center of the area and other facilities will include catering and the Plantworx Bar which will serve refreshments all day and will serve alcoholic beverages from 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 20 local schools will be showcasing their STEM (Science, Technology, Engineering and Maths) engineering projects.


The Student Afternoon at Plantworx - Addressing the Skills Shortage in the Construction Industry.

On the final afternoon of Plantworx Construction Equipment Exhibition 2017 (12 pm - 4pm Thursday 8th June) the organisers of the event are once again inviting students and teachers from primary and secondary schools and colleges to visit the show and get a taste of the Construction Equipment Sector.

The 2015 Student event was a resounding success and has been well received within the industry. The CEA and the Plantworx team have extended this invitation to all visitors to the Plantworx exhibition, who may have younger family members or friends of the family interested in the construction equipment industry, to come along on the final afternoon of the show.

For the young visitors Plantworx is planning a 'Student Trail' where they can follow a trail to visit exhibitors who are actively taking part in the Student Day.

Entry to the show is free -
pre-register www.plantworx.co.uk/ticket
Put 6th, 7th and 8th June in your diary and we'll
see you at Bruntingthorpe Proving Ground,
Leicestershire.

 www.hub-4.com/events/418/plantworx-2017

The UK's Working Exhibition for Construction
Equipment, Plant, Tools & Services

PLANTWORX
6th - 8th JUNE 2017
BRUNTINGTHORPE



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Mining new discoveries with Weir Minerals

The world is ever-changing; from technology to education, health to politics, manufacturing to mining, change is pervasive and demands adaptation.

With declining ore grade and low commodity prices, the mining industry has had to adapt to stay competitive. As merger and acquisitions opportunities and greenfield projects diminish, there is a strong focus on modifying and optimising existing mine sites and processes to achieve greater operational efficiency.

Mining companies are under intense pressure to increase production through the optimisation of their current plant and its resources. In order to achieve this, it is important they preserve and extend their assets, a tactic which Weir Minerals is very familiar with.

"At Weir Minerals we recognise the demand within the industry and we have expanded our service offering as a result. We don't just design and manufacture products; we provide tangible solutions for operators across the globe," states John McNulty, Director of Technology for Weir Minerals.

When it comes to supplying solutions to mining operators, Weir Minerals ensure they visit mine sites daily to assess operator's processes, discover their pain points and work with the customer to overcome their productivity related problems, providing the solutions they need, when they need them.

This could be anything from modifying a cyclone cluster to developing a transportable self-priming pump to increase availability of a plant.

Expert Engineering Solutions

"It is our job to ensure operators maintain optimum performance of their plant, from comminution through to tailings disposals. We want to gain an understanding of their throughput issues and use our leading engineering expertise to deliver a comprehensive solution."

Weir Minerals supply tangible solutions to enable operators to utilise existing infrastructure and equipment to maximise production whilst minimising total ownership cost.

"It's not about reinventing the wheel, it's about re-thinking how we use current assets and working together to modify the process, increasing mine throughput and improving access to high-quality mineral resources."

Laser Scanning Technology

Through their plant optimisation strategy, Weir Minerals use laser scanning technology to examine the entire plant, gaining a full understanding of all of the equipment, applications and processes present.

Many older plants no longer have access to their original drawings, or find that their original drawings are out-of-date due to modifications since the plant's establishment. If original drawings are not available, or out-of-date, laser scanning is a useful alternative to create detailed drawings alongside 3D models.

This technology enables engineers to visualise where and how the equipment fits into the entire operation; identify what works and what doesn't and detect bottlenecks.

Weir Minerals' engineers can then refine the data collected to determine the best approach to modify and enhance the operator's entire process.

"Laser scanning allows for us to modify our products to fit our customers' application accordingly and enable them to run exactly how they need them to," states John McNulty.

Eliminating bottlenecks

It's important to take a holistic approach to optimisation; modifying each process with the entire operation in mind, avoiding bottlenecks which slow down the overall process.

"A bottleneck represents a restriction in the process which must be dealt with to improve the production process. The key is to understand where the bottlenecks are in the process and evaluate the root cause before they negatively impact the throughput of the entire operation."

Bottlenecks are inevitable in mining, therefore, it is important to unlock these barriers and plan the production flow accordingly.

Aside from removing bottlenecks, mine operators may be looking to expand capacity, lower operating costs, increase productivity; whatever the challenge, Weir Minerals are adept to provide innovative, multi-product solutions for their customers.

John McNulty concludes: "It's our job to truly understand our customers' challenges and use our engineering expertise to optimise the process, taking their business to the next level. We constantly look for innovative solutions to industry problems, and utilise our engineering skills, experience, entrepreneurship and innovation to address these problems."



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DOOSAN

New Doosan Stage IV Wheel Loaders at Breedon



Breedon Group plc, the largest independent construction materials group in the UK, has purchased new Doosan DL550-5 and DL450-5 Stage IV wheel loaders for two of the company's operations in Scotland at Edzell Quarry near Brechin and Tom's Forest Quarry in Kintore, respectively. The new Doosan wheel loaders were supplied by Inverurie-based Balgownie Ltd, the local Authorised Doosan and Bobcat dealer.

Breedon Group operates nearly 60 quarries, 27 asphalt plants, just under 200 ready-mixed concrete and mortar plants and three concrete block plants throughout England, Wales and Scotland, employing more than 2300 people. At Edzell Quarry, Breedon produces aggregate and ready-mix concrete products, whilst the same products are available from Tom's Forest Quarry, with the addition of asphalt products.

Breedon Group has strong asset backing, with over 750 million tonnes of mineral reserves and resources. Breedon's strategy is to continue growing through consolidation of the UK heavyside building materials sector. In August 2016, the company completed its largest acquisition to date: the £336 million purchase of Hope Construction Materials, a leading independent producer of cement, cementitious products, aggregates and ready-mixed concrete.

Following the acquisition of Hope, Breedon Group operates as three autonomous divisions. Breedon Southern and Breedon Northern are both fully-integrated aggregates businesses with extensive networks of quarries, ready-mixed concrete and asphalt plants and well-established surfacing and contracting operations. Hope Cement is the UK's only independent producer of cement and cementitious products, with the largest cement plant in the UK, two cement importation terminals and national reach through an extensive rail network and strategically located local depots.

Meeting High Demand

Bob Hare, Regional Production Manager Breedon Northern, said: "Both of these quarries are very busy operations, placing big demands on the equipment we purchase for material handling applications. Both of the new Doosan wheel loaders

are used to load and stockpile the large quantities of materials produced by the quarries' crushing & screening equipment. They are also kept busy filling the material bins used to supply the ready-mixed concrete systems at the quarries."

The DL550-5 and DL450-5 are powered by the Scania DC13 6-cylinder engine producing 283 kW (380 HP) and 257 kW (354 HP) of power, respectively, at 1800 rpm. Providing generous torque at low rpm, up to a 10% reduction in fuel consumption and excellent response, the Scania DC13 engine meets Stage IV emission regulations without the need of a diesel particulate filter (DPF), through the use of cooled exhaust gas recirculation (EGR) and selective catalyst reduction (SCR) after-treatment technologies.

In both models, the engine Auto Idle system when activated saves further on fuel costs by lowering the idle level from 950 to 750 rpm – when the operator does not give any input to the steering wheel, arm and bucket for more than 10 seconds (ideal for applications where there is a lot of waiting time such as truck loading). In all DL-5 loaders, the Engine Auto Shut Off shuts down the machine after it has been idling for a specified amount of time (3-60 minutes, configurable by the operator via the control panel). This feature saves on fuel and reduces operating costs.

As well as the Scania DC13 Stage IV engine, the DL550-5 and DL450-5 feature a new external styling that is common to all of the new DL-5 Stage IV wheel loader range, a new high comfort cab, smooth and responsive hydraulics, a ZF powertrain, axle cooling and auxiliary hydraulic connections.

New High Comfort Cab

The new cab demonstrates how Doosan has placed operator comfort at the very centre of its design priorities. Offering generous headroom and an ultra-comfortable, fully adjustable, heated Grammer air suspension seat, the DL-5 cab features a new steering column design giving more clearance for the operator's legs and knees. The steering wheel can also be tilted and moved telescopically to match the operator's preferred position.

AB2000 double production with the Sandvik QJ341+ jaw crusher

Scottish company AB2000 Ltd visited Hillhead last year and were so impressed with the QJ341+ on display that they decided to purchase this latest addition to the Sandvik range of jaw crushers there and then. Since it was delivered they have seen a marked increase in production, almost doubling capacity over their previous model.

AB2000 Ltd in Scotland specialize in the supply of both operated and self-drive machinery, including crushing and screening equipment, for the construction industry. Incorporated in 1995 by Adam Bruce, who has over 50 years' experience of the operated plant hire industry, the company is now Scotland's largest privately owned hirer of operated plant and equipment.

A longstanding customer of Sandvik, AB2000's relationship started with the mobile crushing and screening manufacturer almost fifteen years ago with the Extec brand. Over the years they have purchased a number of machines for their expanding fleet and now own five crushers; one QJ241, three QJ341s, and a QJ341+.

Already familiar with the Sandvik QJ341 mobile jaw crusher, Chris Brown, General Manager for AB2000 visited Hillhead in June 2016 and was interested to see the latest addition to the range, the QJ341+ on display. This new model encompasses the same characteristics as the QJ341 but is fitted with a double deck pre-screen and a number of additional benefits for improved efficiency, safety and operation.

Chris describes the advantages of the pre-screen and why he was impressed with the new model. "I liked the idea of the screen and the improved production. In a recycling environment it gives us the option to produce a graded stone, a Type 1 material, which is popular with our customers. In a quarry



environment we can scalp out the material and be a bit more accurate so we're not wasting as much of the raw product to put forward into the secondary process" says Chris.

Double up production

AB2000 have been very pleased with the increased production with the QJ341+ jaw crusher and cost per tonne is looking very good says Chris. "At Hillhead Sandvik were stating an increase in production of 30% with the QJ341+. We are actually running somewhere in the region of 300-350 tonnes per hour in comparison to the QJ341 which was doing 150-200 tonne per hour, so production's well up as far as I'm concerned and I'm more than happy with it".

AB2000 are currently using the QJ341+ for a crushing contract at a limestone quarry to process 25,000 tonnes of crushed stone for a blend in the concrete plant. The -500mm raw material is fed into the QJ341+ which is then crushed down to 4" and fed into a cone crusher with a CSS set at approx. 25-28mm. The crushed limestone is then fed into a double deck screen and reduced to a clean 20-25mm product.

Simple and safer operation

For a plant hire company, key benefits of the Sandvik QJ341+ are mobility, quick set-up and ease of operation. "After arrival on site, the machine can be tracked into position, hopper wings folded up, jacking legs down, adjust your jaw and away you go. It's very, very straightforward" says Chris.





One new feature which AB2000 particularly like on the QJ341+ is the self-locking hopper. The hydraulically folding design eliminates the need for an operator to climb onto the machine. It is therefore easier, quicker and safer to set-up as this can all be done from ground level.

Another feature they like is the control system which is common across the Sandvik Premium range of crushers. The machine is fitted with a PLC control system and a colour screen which allows visual data output of all plant operating parameters. This is simple to operate and all their fitters are well versed in the running of their fleet making the progression from one model to the next an easy transition.

Over the years AB2000 has built up a reputation as a leading plant hire company in Scotland and therefore need a reliable equipment supplier. The aftermarket support is therefore an essential aspect to their business.

Chris concludes "The backup and aftersales support of the machines is pretty good. Generally any problems that we have on site, we phone in and there's a fitter sent to site tout suite, so we are quite happy and have no complaints on that side".



www.hub-4.com/directory/296

Baioni - new developments in dehydration systems



With the current growing demand for washed aggregates requiring the management of water and reclamation of silts, Baioni have been at the forefront for many years with centrifuge systems. Baioni have developed a new generation of decanter centrifuges that are suitable for quarry, recycling and environmental applications: this new generation will complement their existing BaiPod series.

The key advantage of the new Baioni decanter units is its concept of mobility and transportability that can be a 'plus' for every customers' application. This allows maximum flexibility in adjusting standardized machines to meet individual customers' challenges without the risks and costs associated with customized prototype solutions.

The recent improvements to the BaiPod range have been to make site installation quick and easy, by designing pod units that can be skid-mounted, or containerized units which can be easily mounted on the client's own base, or onto the appropriate flat trailer. These can also be supplied fitted into box trailers for the transport from site to site. All BaiPod systems come as complete units with flocculent system, touchscreen control panel, auger discharge and feed pump.

Modular design with two options:

- As a frame-mounted complete dewatering station for indoor applications
- Delivered inside one standard ISO 40'OT with removable Hard Top roof, ideal for trailer-mounted or fixed installations.

A new patented Centrifugal System:

- To avoid any vibration and unwanted water release occurring at the slowdown.

A complete new PLC system, that enables:

- Foolproof graphical user interface.
- Complete control of the centrifuge, including washout cycle, lubrication, pumps, floc tank, buffer tank, exhaust conveyor.
- Webcam connection to inspect different areas of the unit.
- Data logging over a one-month period.
- Warning emails sent to different addresses for errors alert.
- On-screen display of wiring diagrams, parts manual, owner's manual, picture-oriented repair manual.
- Remote control with 3 levels of access privileges (user, supervisor, factory).



www.hub-4.com/directory/2889

Hardox™ Wearparts Centre Stirling expand their cutting capability



Based in Stirling, Scotland, the fifteen-strong team at the Hardox Wearparts Centre (Stirling) Ltd serve the whole of Scotland and parts of England with specialist wearpart services across the quarrying, mining, construction, forestry and recycling industries. Founded in 1998 and now wholly owned by SSAB, they have built up an impressive and varied client portfolio including names such as Terex Trucks, Aggregate Industries, Breedon, Leiths, Central Demolition, Liebherr and Hitachi.



We caught up with Harald Pedersen from SSAB who told us more "We use over 500 tonnes a year of Hardox™ material in the manufacturing process, including Hardox 450™, Hardox 500™ and Hardox 600™, as well as some Strenx™ 700 for certain applications. We also work with 3mm thick Hardox™ and are currently carrying out development work in Hardox™ 2mm. We are an official UK Hardox™ wearparts centre as well as being 'Hardox in my body™' approved. We also have our own identification mark for products manufactured here which is the letter 'g', gráva™ which means dig in Swedish."

"We have complete flame and plasma cutting technology available on-site allowing us to cut metal up to 130mm in thickness. Further investment is currently being made and will extend the plasma and oxyfuel cutting bed to an impressive 21m long and add another cutting head, allowing three 6m plates to be placed on the bed at the same time, increasing our efficiency and capability."



An excellent knowledge and skill base has been built up over the years, enabling Hardox Wearparts Stirling to manufacture according to the critical standards required when working with high strength steels. Stirling also prides itself on its service minded approach and quick turnarounds for the jobs required, essential for customers working in an often unpredictable industry sector of repair and maintenance.

Hardox™ Wearparts Centre Stirling provides a fully bespoke service to their clients, or on-site using their fully equipped Hardox™ vehicle fleet. A recent bespoke project was just about to be despatched to a major quarry in South Wales for Hitachi. With over 150 hours of welding involved this new 120 tonne bucket made from a large amount of Hardox weighed over 7.5 tonne and had been built to a specification for Hitachi, and was to be attached to a new EX-1200 excavator. This was a totally bespoke product, to a very tight deadline, and had also been finished in bright orange to match the Hitachi brand.



Hardox wearparts centres - the one stop shop for wear products and services

Hardox Wear Plate is world renowned for its strength and durability, even in the harshest, most aggressive operating environments. Today, customers can now benefit from a specialist service providing high quality replacement parts for a wide range of quarry and mining machinery and equipment, delivered through a network of regionally based Hardox Wearparts Centres.

As a global initiative, there are Hardox Wearparts Centres operating in more than 40 countries around the world. In the UK, there are currently nine strategically located Wearparts Centres, from Scotland in the north, Northern Ireland through to South Wales and South East England covering all the primary industrial centres - and this figure is expected to increase further over the coming years.

Each Hardox Wearparts Centre has access to the complete product programme and full technical support provided by SSAB for its Hardox brand, which translates to an extremely comprehensive offering of wear parts and services for the quarry and mining industry.

Services include:

- Site visits and technical advice – including technical analysis of requirements and measurements.
- In-house design engineering – redesign of replacement components to provide longer operational life using in-house CAD/CAM and worldwide reference data base.
- Component manufacture – including collection of components and comprehensive in-house manufacturing services.
- Delivery and install – direct delivery and full installation and re-commissioning of replacement parts.
- On-site welding services – an extended service offering, with specialist welding vans creating the possibility to make on-site repairs.
- Ongoing support services – including service agreements, real life wear performance and analysis, plus wear monitoring analysis.



One of the benefits of using Hardox Wearparts Centres is their access to literally thousands of wear products for buckets, tipplers, crushers, dozers, shovels, chutes, feeders and pulverisers, plus many more. Accuracy and product quality are key drivers in the business and linked to this significant parts resource, enables replacement wear products to be manufactured, often to higher specification standards, to suit customers specific operating requirements. Hardox Wearparts Centres will undertake the complete replacement or upgrade of a wear part, from initial discussion and site visit, specification recommendation, design and manufacture to installation.

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

For more information please visit
<http://centers.hardoxwearparts.com/stirling/>

For more information on Hardox please visit
www.hardoxwearparts.com



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Canning supply new conveyor system for Bromfield Sand & Gravel

Based near Ludlow, Shropshire, Bromfield Sand & Gravel Co Ltd have been a family owned company for 50 years specialising in producing and supplying quality aggregates to help build the foundations of local communities.

The company operate a wash plant and supply all grades of sand and gravel to both trade and domestic customers, including a constant supply of aggregates to an on-site CEMEX concrete plant.

Over the years' the wash plant has been upgraded and recently a desire to replace the existing blending conveyor with a more efficient unit led to the company contacting Canning Conveyor for a solution.

Wayne Clent – Quarry Manager, takes up the story, "In 2009 Canning Conveyor manufactured a new dump hopper feeder for us and we were very impressed with their approach and manufacturing capabilities so we turned to them to supply a new blending conveyor."

The conveyor system:

After a successful tender Canning supplied a 16 metre Double Drive Reversible Blending Conveyor and 6 x 1 metre Extractor Conveyors which included all guarding and installation. The removal of the old system was also carried out by Canning engineers.

The new blending conveyor is situated at the side, on the bottom of the storage bins. Material is fed from the wash plant via inclined conveyor onto a 3-deck screen at the top of the storage bins. Material is then split and fed into designated hoppers which feed the material onto the short 900mm wide extractor conveyors which in turn feed onto the 700mm wide blending conveyor. This conveyor is driven by twin motors enabling the conveyor to be reversed enabling material to be either sent to stockpile or directly to lorry loading beneath.

Wayne commented further, "The new design incorporates a wider belt and skirting, and is much more efficient than the old system. The double drive has increased the efficiency and stability of the whole operation and reduced lorry loading time.



Installation was complete within the allotted time frame and commissioned in early February '17 when it became clear that a few modifications needed to be made.

Wayne, added, "We realised we needed a few things rectifying after commissioning and the Canning team reacted very swiftly and their team was on-site, with the system up and running after a short downtime. To date everything has worked to our satisfaction and the faultless operation is a testimony to Canning and their team."

Many years of experience:

Canning Conveyor have many years of experience in supplying to a diverse range of industries including mining, quarrying, mechanical & civil engineering, waste management & recycling, fishing, agricultural and film & TV, has made Canning Conveyor a leading and well respected name throughout the world.

The company offer a vast range of products and services second to none, holding huge stocks of conveyor belt, idlers, rollers and many ancillary components and design, manufacture and install many types of conveyors, hoppers, conveyor drums and associated plant and equipment.



www.hub-4.com/directory/1715

Going underground at Perryfield

A new Volvo L220H loading shovel has been ordered and delivered to Portland Stone Firms Ltd to spearhead the company's relatively new mining operations at the Perryfield Quarry site on the Isle of Portland.

The new 32 tonne loading shovel was chosen by Portland Stone Firms following a competitive tender process according to Quarry Manager Andrew Jackson. "We started our mining operation here at Perryfield Quarry back in March and required a suitably sized loading shovel to extract and handle dimensional stone from the underground faces of the mine," he says. "We found the team from Volvo to be very proactive in working with us to agree on the specification of the L220H and checking all the details were correct to ensure the

machine would do 'what it says on the tin'. The overall package was very competitive too so all in all this prompted us to choose Volvo once again," he continues.

And the Perryfield site has a long experience in operating Volvo loading shovels having previously run the larger 50 tonne L330E from the end of 2002 when the stone was being extracted in the quarry and even before that in 1996, when an L180C was delivered and ran for eighteen years. "Back then the quarry was operated by the Hanson Bath and Portland Stone Company and the L180 was an excellent machine, clocking up an impressive 31000 hours with only a transmission change in all that time," says Andrew. "So if our new L220H can perform in a similar manner we'll be extremely satisfied."





The L220H has been supplied complete with hydraulic attachment bracket, a 4.7m³ general purpose bucket and 1500mm heavy duty block forks capable of handling blocks weighing up to 24 tonnes. To facilitate this the machine has been equipped with an additional block handling counterweight, XLDD2A L5 wheel and tyre assemblies, a fire suppression system, an RDS Loadmaster weighing system, Sensor vision, a Brigade white noise reversing alarm, flashing blue rear lights and a full lighting package. This enables the machine to be used primarily for extracting stone blocks from situ, then carry them to the mine entrance where they are sorted and cut to customer requirements. The L220H is also used to carry the sawn material up to a marshalling area at the top of the quarry where it is loaded onto trailers destined for either customers directly or to Portland Stone Firm's cutting shops and to aid this activity, the machine benefits from Volvo's ride control or boom suspension system. In addition the machine is used to clear waste material from the mining process which is disposed of in the old quarry workings at the Perryfield site.

Developing 373hp in a relatively low rpm range the 13 litre Tier IV final Volvo engine coupled to Volvo designed and manufactured powertrain components are the significant features found on the L220H. These coupled to other fuel

saving devices such as optishift with torque converter lock up, the reverse by braking feature and the Volvo Eco pedal encouraging the operator to run the machine at its optimum rpm in the engine's torque curve make this a highly efficient and productive loading shovel in its size class.

Portland Stone Firms Ltd has been involved in the extraction of Portland stone for over 100 years operating from a 680 acre estate, quarrying oolitic limestone reputed to be 145 million years old from the Whitbed and Roach seams found exclusively on the Isle of Portland. Earlier in March this year, the company switched its extraction operations from quarrying to mining at the Perryfield site where the already exposed face has allowed the company to mine directly into the beds yielding the famous stone and giving access to over 680,000m³ of reserves. The change to the mining process has made an immediate and positive impact on the local environment as well. The extracted material is highly desired for prestigious buildings and features in many famous edifices - for example in London where Portland Stone is once again be used in the new Chelsea Barracks development project.



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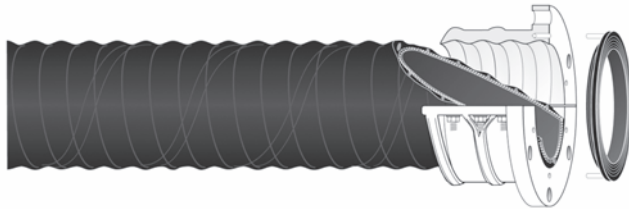
Performer GL AD10H is one such product as it has been specifically designed by Trelleborg for transporting hard wearing aggregates including stone, sand, slurry and clay in quarries and mines.



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Creagh Concrete tackles conglomerate with new CDE plant

Creagh Concrete, a CDE long-term customer from Northern Ireland, has added a CDE R2500 feeding and screening system and an additional AggMax log washer to their existing installation at Draperstown in order to tackle conglomerate even more efficiently and rapidly than before. The combination of the new plant arrangements means that the minimum amount of mobile equipment and manpower are required and that expensive double handling is eliminated.



The challenge

After three years of successful production Creagh decided to take their capacity further by tackling additional issues.

Willie Doherty, Director responsible for Ireland for Creagh Concrete, explains: "Whilst we were very happy with this outcome there remained some issues which we felt we wanted to address to further improve our production facility.

"Some extensive areas of the pit contained what is effectively a compacted conglomerate which actually has to be ripped with an excavator from the face. The original feed hopper was specifically designed by CDE to handle sticky material when wet. This was fed by a loading shovel from material that had been pre-screened and crushed in the pit.

A percentage of Creagh's products are generated from a challenging raw feed made up of conglomerated aggregate, sand and silts in equal proportions. This conglomerate requires high tech equipment to recover good quality sand and aggregates. In 2013, Creagh decided to handle this body of difficult material which underlies their main sand and gravel deposit. The difficulty of recovering this material, which contained in excess of 30% unusable material, was overcome with the installation of a CDE AggMax modular logwasher, which recovered approximately 70% of the material including top quality natural sand containing no crushed material.



"It proved necessary to crush the conglomerate to reduce it to a size suitable for processing, therefore preventing large oversize from blocking the hopper. Originally this was done at the face but the process required the use of a mobile crusher followed by a mobile screener. We also wanted to avoid double handling and use dumpers to feed the plant and increase efficiency."

The solution

The introduction of a CDE R2500 feeding and screening system made the use of 40-tonne dumpers possible and did away with the need to use shovels for transport from the pit. The R2500's apron feeder can handle even the most difficult of feed materials and the heavy duty P2-75 Infinity screen that forms part of the R2500 removed the need for a mobile screener at the face. Additionally, after consulting with CDE, it was agreed that the plant layout would be redesigned so that Creagh's existing jaw crusher could be incorporated into the feeding arrangement in order to preclude the need for a mobile jaw crusher at the face. Crucially, double handling has been taken out of the equation.

A second AggMax 251 was incorporated into the washing

circuit and is now used to break up the conglomerate and release the sand, which is then removed before the aggregates are sent to the original log washer for even more efficient scrubbing.

Best use of resources

With the new upgrade in place, Creagh currently processes up to 150 tonnes per hour of raw feed. A VSD unit has been fitted to the first AggMax log washer to accommodate variations in the feed rate.

The company produces high quality concrete sand and aggregates which are transferred to the existing crushing circuit to enhance production of 20mm and 10mm aggregates and add to the overall sand production.

Des Crawford, NI Ireland Area Sales Manager for CDE, comments on Creagh's decision to tackle all available feed material more efficiently. "With planning permission for new deposits of sand and gravel being so difficult to attain, it is extremely important to gain maximum production from existing resources."

Quarry Manager Colm Scullion advises: "these latest innovations should extend the life of the quarry by at least 10 years."



Creagh's installation is a landmark for CDE in terms of engineering innovation and design solutions, leaving them able to tackle the most challenging materials to produce high quality products with minimum waste."



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DUO provide very successful contract processing at Hanson's Coln Quarry operation



Situated near Lechlade, Gloucestershire, Coln Quarry is owned and operated by Hanson Aggregates. A very successful sand and gravel operation for many years the reserves will finally expire in February 2017 with the land being sold to Coln Country Park for a development of holiday homes.

12 months ago, with the termination of processing in sight Hanson removed the existing plant to take over the yard area and then searched for a contractor who could process the remaining reserves.

Having successfully tendered for the contract the Minerals Processing Division of DUO Europe subsequently installed a fixed price-per-tonne totally managed operation with a Terex® Aggwash 60 modular wash plant at the hub of the processing.

Colin White – Unit Manager, commented, "Since the plant was installed 12 months ago, it has been very reliable and has processed high quality saleable materials. Bob who manages the plant on a daily-basis has been first class and easy to work with; I have been very happy with the whole operation."

The Sand & Gravel Plant:

As the England and Welsh dealer for Terex Washing Systems (TWS), DUO can provide cohesive solutions utilising innovative wash plants for all material and mineral washing needs. With this outstanding range of products, DUO can choose from either TWS modular, mobile or static wash plants with the confidence and ability to work in many applications which are focused solely on providing solutions to the quarry, aggregate, mining and C&D recycling industries.



Operating at 70tph the main elements of the plant at Coln is the innovative Terex® AggWash 60 2-deck modular wash plant which is fed with 'as dug' material via a 6m³ hopper feeder. This material is then conveyed onto the 8 x 4 single deck rinsing screen which is fitted with an impact protection deck to wash the oversize and sand, with all oversize being fed via a chute onto a mobile conveyor to stockpile. Any remaining material then feeds into the twin shaft PowerScrub™ Logwasher where the material is scrubbed, with the clay and contaminants removed.

The PowerScrub™ Logwasher consists of a 6.5m angle adjustable hull fitted with twin rotating shafts fitted with 30mm abrasion resistant blades. The blades convey the material from the feed end of the scrub to the 8 x 4 double-deck rinsing/sizing screen which splits the required products of 10mm and 20mm aggregate which are then stockpiled via integral conveyors.

As the material travels through the hull the abrasive action of the aggregate as it collides with other aggregate (stone on stone) scrubs it clean and breaks up any clay conglomerates which are then floated off through the back of the PowerScrub™. Any organics such as roots or plastics are also

floated off to be dewatered over the PowerScrub™ 6 x 2 trash screen. Underflow from the trash screen is received in a catch box under the screen and then gravity fed to the sump tank under the hull.

Scrubbed aggregate exits the main discharge of the PowerScrub™ Logwasher onto a high-energy 8 x 4 part-rinsing sand screen which is capable of de-watering up to 70tph.

The initial section of this screen is fitted with spray bars to rinse off any sand or grit residues produced during scrubbing. The rinsed grit is captured in a partial catch box under the screen and is piped to the sump tank below the hull to join the trash screen underflows. This sump tank is fitted with a 100/100 centrifugal pump which pumps this dirty water back to the AggWash™ 60 sand plant to recover any sand and make maximum use of internal water. Sand is then delivered by conveyor to stockpile.

Colin, further commented, "We have had a good steady demand and have been selling an average of 3,000 tons/week, of which 600 tons go to our bagging plant. Approximately 1,400 tons for our two concrete plants, with the 10-20mm also going to our bagging plant and a local company, with all our rejects sold to the Coln Park development for hardcore for piling."

The Terex® AggWash 60:

Dedicated to providing reliable, high quality and very productive equipment to meet today's stringent specifications of clean material.

the award-winning Terex® AggWash 60 is a new modular wash plant from the TWS portfolio that brings together for the first time, rinsing, screening, scrubbing and sand washing capabilities on a single transportable chassis. Primarily designed for the processing of construction and demolition waste, but equally suited to virgin material applications; the AggWash 60 can produce four grades of aggregate and up to two grades of sand at up to 70tph.

John Bracken – Group Operations Director, commented, "The Terex® AggWash 60 is an ideal plant for this type of operation at Coln and offers a reliable, fully modular, pre-wired and pre-plumbed electric powered wash plant that will fit in a relatively small footprint. With a heavy-duty robust build, it is ideal for rugged operating environments and with a fast on-site installation (approximately 1 day) it offers an environmentally friendly operation with zero exhaust emissions."

DUO Minerals Processing:

DUO Minerals Processing are unit-cost material processing providers for full aggregate production and offer knowledge, ability, flexibility alongside an enviable market reputation. A comprehensive and tailored unit cost processing operation with either the option of the supply of a processing plant, with or without an operating team. Backed by a world class service division and a portfolio of innovative TWS wash plants and water management solutions that have revolutionized the washing market on a global level, DUO Minerals Processing are dedicated to minimising your downtime and maximising your turnover.



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The first Liebherr PR 746 dozer in operation in the UK

The range of Liebherr dozers available in the UK has recently been expanded with the introduction of the 30 tonne PR 746 crawler tractor.



The first example of this model has joined the Liebherr-Rental fleet and has been snapped up on a long-term hire by earthmoving specialists Stokey Plant Hire Ltd.

Stokey Plant Hire works across a wide range of industry applications with its main focus on bulk muck-shifting operations. Working for blue-chip companies, Stokey Plant Hire is expected to supply operators and machinery capable of undertaking specific projects on time and to budget. To meet these requirements, the company demands a lot from its machinery and the new Liebherr has not disappointed.

Powered by a fuel-efficient Liebherr-made diesel engine pushing out 252 HP, the PR 746 complies with Stage IV emissions regulations, thanks solely to the addition of an AdBlue treatment system. Liebherr's highly-efficient hydrostatic drive system provides a positive benefit compared to a conventional drive as the engine runs at a constant RPM, which decreases fuel use. The hydrostatic drive system automatically adjusts the working speed to the load conditions and, with oversized final drive units, ensures the



power is always transmitted to the tracks. This results in powerful and precise steering control.

The Generation 6 crawler dozers from Liebherr offer an exceptionally smooth ride along with precision blade control. This ensures maximum productivity both when pushing heavy material and when fine grading. To service the popularity of machine control systems, Liebherr offers factory-fitted plug-and-play packages for the most common and popular operating systems. The Liebherr stepless drive system is ideally suited to this type of machine control system and the factory-installed preparation kits offer maximum flexibility to meet the operator's needs, whether that be a 2D or 3D system.

Liebherr's new generation cab offers an ideal workspace with an excellent seating position. The seat is angled and a smaller diameter front idler is used to provide the operator with unrivalled views of both blade corners and a view of the 3-shank ripper without needing to twist their upper body. All controls are positioned easily to hand and the old analogue dash has been replaced with a new touchscreen version similar to that found on other Liebherr machines.

Stokey Plant Hire has been using the PR 746 on a variety of contracts with major quarrying companies, most recently to level out waste rock sand on a tip with the 6 m³ straight blade making it ideal for this project. Regular operator Adrian Lovett comments that the machine is a very good and reliable tool: "It can certainly push the material and the amount of control available makes it very easy for me to grade this rocky material to a level. Stokey's site management have been very impressed with the PR 746. The overall performance of the machine has been significantly higher than similar machines on the fleet with a marked drop in fuel consumption too."



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Heavy-duty hauling with the Volvo A60H

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

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

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

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

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



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New High Performing Doosan DX225LC-5 Excavator



Doosan Bobcat EMEA has launched the new Stage IV compliant DX225LC-5 crawler excavator, offering an unmatched combination of high performance, operating features, fuel efficiency, reliability and durability in the 21 tonne excavator class.

Presented in the distinctive new machine styling scheme common to all new Doosan LC-5 generation excavators, the DX225LC-5 is powered by the well-proven 6-cylinder, turbocharged Doosan DL06P water-cooled diesel engine, providing a high power output of 124 kW (166 HP) at 1800 RPM.

The DX225LC-5 therefore combines plenty of power with high torque at a lower number of revolutions, ensuring higher reliability over time than other 21 tonne machines, which have 4-cylinder engines running at much higher revs. In addition, the DX225LC-5 offers very good performance levels in terms of speed, force and noise, especially the traction force and slew torque which are much higher than those in other machines, while also delivering extra lifting capacity compared to other machines in the 21 tonne market. Machine noise (2000/14/EC, ISO 6395) has been reduced by 1 dBA.

Trouble-free Operation

The DX225LC-5 offers convenience and lower costs by meeting Stage IV emission regulations through the use of

cooled exhaust gas recirculation (EGR) and selective catalyst reduction (SCR) after-treatment technologies. With the DL06P engine, the DX225LC-5 ensures trouble-free performance as it operates without a DPF, unlike some of the other 21 tonne machines on the market.

As well as the DL06P engine, which is one of the most reliable and fuel efficient ever produced by Doosan, new innovative and exclusive features have been introduced providing an overall 9% increase in fuel efficiency. Among these features is the new 'Trip Meter Setting' screen which allows operators to check fuel consumption daily (or over a desired period) directly from the control panel and to save even more fuel, there is a special Doosan-developed system, Smart Power Control (SPC), to optimise the balance between the pumps' output and the diesel engine.

The Auto Shut-Off feature saves on fuel and warranty hours. When the feature is enabled, the engine shuts down after it has been idling for a specified amount of time (3-60 minutes, configurable by the operator).

Quarry Excavators

The DX225LC-5 is factory-installed with the new DoosanConnect state-of-the-art wireless fleet monitoring system, providing comprehensive information about machine performance in a dual mode (satellite, GSM). Also available for retro-fitting in a kit form, the DoosanConnect system is supplied with a free 3-year subscription in new LC-5 excavators above 14 tonne and customers are provided with their own account so that they can manage the machines in their fleet using the system.



Already excelling in spaciousness and ergonomics, the new cab in the DX225LC-5 is bigger than that in the previous DX225LC-3 and has been further refined for outstanding operator comfort and ease of operation. The features offered as standard in the cab are among the best in the market and include super controllability with a new system that enables attachments to be operated from either the joystick or a two-way pedal. The operator can select 10 pre-set configurations for attachments and hydraulic flow and pressure data can be pre-selected directly from the control panel, allowing a quick change of attachments without the need for a manual set-up.

The joysticks have also been shortened to reduce the effort required to operate them and an additional pedal for straight travel has now been installed on the left of the main travel pedals, a very useful feature when travelling straight over longer distances. The operator console has been moved onto the seat suspension to reduce vibrations. This gives the operator much better control with the joystick in rough operation.

Lower Total Cost of Ownership

Like all new LC-5 excavators above 20 tonne, the DX225LC-5 incorporates a thicker inside plate in the arms and booms, providing front reinforcement to relieve stress concentration and a different welding method has also been applied. To further maximise durability and reduce noise, all LC-5 models are equipped with EM (Enhanced Macro-surface) bushings, which are also much more effective than regular bushings when greased.

Air pre-cleaners are fitted as standard on the DX225LC-5, to blow much of the dust, dirt, insects, rain and snow out of the air intake, to ensure cleaner air is sent to the engine air filter. This extends air cleaner servicing intervals, enhancing uptime and productivity. Doosan has also added protection to the inner cab air filter and redesigned the cab air-conditioning filters for easier replacement.

All current options including narrow tracks, short and long arms, shoes and hydraulic lines are available for the new DX225LC-5. A new Trimble Ready option is also available, enabling a faster and simplified installation of Trimble® 2D or 3D Grade Control System components – with no welding, repainting, drilling or disassembly required.



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Longstanding customer Barhaul will put Terex Trucks' TA300 articulated hauler to work at a barite mine in Scotland

With confidence in the investment returns that Terex Trucks' machines offer, mining contractor Barhaul has purchased a new 28-tonne capacity TA300 articulated dump truck, for use in a barite mine near Aberfeldy in Perthshire, Scotland.

Supplied by Terex Trucks' UK distributor, TDL Equipment, the TA300 has consistently impressed Barhaul with its ability to power through the harshest environments. John Black, sales director at TDL Equipment, explains: "Over the years, Barhaul has regularly purchased Terex Trucks' TA300 articulated haulers, as the company has a very good history with both the product and TDL in terms of our ability to support the product when required."

Fitted with a tailgate and reverse colour camera, the versatile machine is currently carrying out a number of jobs for Barhaul, one of which involves handling material removed from a barite mine that is owned by the world's largest oilfield services company, Schlumberger.

Heavyweight mineral

Easily identified due to its high specific gravity and derived from the Greek word 'barus', meaning heavy, barite is the naturally occurring mineral form of barium sulphate. Due to its density, the environmentally friendly material is suitable for a wide range of industrial, manufacturing and medical uses. More than 75% of barite is used as an additive for drilling mud in gas and oil exploration – with the USA, Middle East, and China as the largest consumers.

Not classified as hazardous waste, barite is particularly beneficial to drilling muds as it can be applied to deep, high-temperature wells. Here it prevents damage to the tools used during the drilling process, serving as a lubricant to improve mud displacement and stabilizing high-pressure zones by increasing the weight of the slurry, thereby averting blowouts. The mineral also has the ability to shield x-ray and gamma-ray emissions, acts as a weighted filler for cloth, paper, plastic and rubber, and used as a pigment in paints; barite is truly unique among its contemporaries.

"Barite is an extremely dense material so it requires a robust and reliable vehicle to do the work of moving it around in the mine – it's not an easy life for any truck," says Black.

Time-honoured trust

Set to make for the perfect collaboration between machine and mineral, the TA300 is a proven design and has the capability to

overcome the most demanding conditions and move material as quickly as possible due to its excellent traction and effective power-to-weight ratios.

Created to work harder for longer, the machine offers minimum cost of operation and maximum productivity. With fully independent front suspension as standard, tyre/ground contact is maintained on tough terrain, increasing tractive effort and reducing cycle times, while also providing operators with a comfortable haul.

Built in Motherwell, Scotland, the TA300 is mastered by a fuel-efficient five cylinder Scania DC9 engine, which develops gross power of 276 kW (370 hp) and maximum torque of 1,880 Nm. In addition, the transmission retardation system in combination with engine exhaust brake support the fully-enclosed oil-cooled multidisc brakes for enhanced protection of the brakes, resulting in less maintenance and a longer life span for the brakes.

Black asserts: "The Barhaul order for the TA300, which was to replace an existing unit, was delivered straight to the site and is carrying out the work it was purchased for. Alongside the sale coming with a short lead time, Barhaul's decision to remain with the brand was influenced by the level of quick responses received from the manufacturer and dealer no matter the request.

"As is normal business practice, Barhaul was looking at competitor brands but one of the key elements of retaining its business with Terex Trucks and TDL is the excellent working relationship that has been established over the years."

Patrick Bradley, director of Barhaul, says: "We have purchased Terex Trucks' articulated dump trucks for a number of years and have been very pleased with their performance as well as the excellent aftermarket support provided by TDL - a winning combination."

 www.hub-4.com/directory/17666



An increased offering with CASE's New CX245D SR excavator

Greater fuel efficiency, precision manoeuvrability and increased bucket digging force and lift capacity with the new CASE CX245D SR excavator.

CASE Construction Equipment has introduced the all-new CX245D SR minimum-swing radius excavator to its D Series line-up. Designed to provide increased digging and lifting power in confined work areas, the CX245D SR features a compact counterweight and modified boom placement that minimizes the machine's footprint, resulting in a highly productive and manoeuvrable excavator that's ideal for restricted conditions, such as road and bridge work, residential projects and urban construction.

With an operating weight of 26 tons and a 160 HP Tier 4 Final/Stage IV engine, the CX245D SR offers more bucket digging forces and lift capacity compared to the previous model.

Each D Series model is built to provide significant operational gains, including decreased cycle times, improved responsiveness and multifunctional controls, and greater fuel efficiency. An electronically controlled hydraulic pump and larger control and solenoid valves increase lifting capacities and improve responsiveness.

D Series models offer more standard features than previous CASE excavators, simplifying the buying process and making them extremely versatile and operator friendly.



Maintenance-free Tier 4 final/ Stage IV Solution

The CASE CX245D SR excavator meets Tier 4 Final/Stage IV emissions standards through an innovative combination of selective catalytic reduction (SCR) and diesel oxidation catalyst (DOC) technologies, which helps maximize uptime and performance – all with minimal maintenance. There is no diesel particulate filter (DPF), no DPF regeneration or associated lifetime service costs.





The system is also very economical in its use of AdBlue, which is just 2.5% - 3% of fuel consumption. The large AdBlue tank only needs to be refilled every 5 fuel refills, so that no time is wasted.

Intelligent Speed, Power and Efficiency

Faster cycle times are achieved through a new electronically controlled pump, a larger control valve and multiple sensors. These features combine with the CASE Intelligent Hydraulic System and the CASE advanced energy management with its five integrated control systems to make the best use of the machine's hydraulic power and momentum, resulting in added strength, maximum power and fuel efficiency.

The five systems that make up the CASE Intelligent Hydraulic System are:

- Idle functions: the Auto Idle function lowers engine rpm after 5 seconds of lever inactivity whatever the throttle position, while the Idle Shutdown function shuts the engine down after a pre-set time.

- Torque control decreases main pump loads to prevent a drop in engine rpm.
- Boom Economy Control (BEC), which reduces RPMs by using gravity during boom down and swing.
- Swing Relief Control (SWC), reduces hydraulic power at the swing start.
- Spool Stroke Control (SSC), adjusts hydraulic pressure during digs.
- Using improvements to the Spool Stroke Control system, the CX245D SR excavator re-uses hydraulic fluid whenever possible to automatically increase cycle times and efficiency. The operator experiences a more productive machine without losing the precision of the machine's controls.

Greater Features Offering

CASE D Series excavators now offer more features than any previous CASE crawler excavator, like the optional travel alarm and the oil sample ports for quick sampling of engine and hydraulic oils.

Each D Series machine is equipped with a fully adjustable operator station anchored by a standard heated air-ride seat and joystick controls that allow for smooth performance.

The CX245D SR also has best-in-class cab space, excellent visibility, and a pressurized and iso-mounted cab that keeps noise and vibration down. A standard Bluetooth radio gives operators hands-free functionality that further improves the operator experience. A standard rear view camera feeds a 7-inch widescreen monitor that also provides operators with real-time access to important performance parameters, including fuel consumption, operating hours and machine information. The excellent visibility of the cab is further aided by the standard rear and side view cameras and by the optional CASE maximum view monitor, an innovative 3 camera system.

Light it Up

Each machine is available with a new (optional) LED working light package that provides illumination similar to sunlight – and more than three-times brighter than halogen – allowing contractors to work around the clock. The LED package includes eight LED lights (3 front, 1 on the arm, two rear and one on each side).



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New CX245D SR

Max weight	24,400 kg without blade // 26,000 kg with blade
Engine Power (ISO 14396)	124 kW (166 hp)
Engine Torque (ISO 14396)	636 Nm
Emissions level	Tier4 Final / Stage IV
Pumps flow	2 x 211 l/min
Max reach	9.37 m (Arm 2.4 m HD) 8.91 m (Arm 1.90 m HD) 9.85 m (Arm 2.95 m)
Max digging depth	6.12 m (Arm 2.4 m HD) 5.62 m (Arm 1.90 m HD) 6.65 m (Arm 2.95 m)
Swing (rear end) radius STD count./extra count.	1.72 m

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Master Magnets making tracks in Eddy Current Separator Market

Technological advances in Eddy Current Separation over the last 10 years have significantly improved the efficiency, recovery rates and throughput capabilities of a machine that has always been one of the recycling industry's soundest investments. In many cases, it is not uncommon for an Eddy Current Separator to pay for itself within the first six months of operation.

In an attempt to improve the practicality of the Eddy Current Separator, particularly for recycling sites that stockpile a large amount of their feed materials, Master Magnets ECS systems are now available as a mobile tracked machine.

Master Magnets General Manager Adrian Coleman, writes: "We wanted to bring a mobile Eddy Current Separator to market that was not only superior in manufacturing quality to anything else on the market, but could also still be cost-effective for the end user.

Working closely with the highly reputable Steelweld Fabrications Ltd in Cookstown has enabled us to produce a machine that is everything we had hoped for in terms of design, ease of use and durability."

The MasterTrax incorporates a 1500mm wide Master Magnets ECS with a Rare Earth Drum Magnet for the removal of fine ferrous metals. Other features include:

- Vibratory feeder
- 3 integrated inclined discharge conveyors with hydraulic folding
- 65Kw Generator (can also be powered via mains supply)
- On board working lights and an air compressor for cleaning

Rob Symons, Owner of CRJ Services and user of the new MasterTrax, writes: "As a company that specialises in the hire of large plant and equipment, we need machines that we are confident our clients can rely on. Having purchased Master Magnets Eddy Current Separators in the past, we knew that



we can trust in the quality of their manufacture and service, however the demand from our clients for a mobile ECS unit was increasing all the time. We worked closely with Master Magnets on the design brief for the ECS, before teaming up with Steelweld to turn our vision into a fully operational production machine. We were very keen to purchase the first MasterTrax unit and we now have two in our fleet."

For more information on the Master Magnets full range of Eddy Current Separators, visit www.mastermagnets.com

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The JCB Waste & Recycling Event

May 9th 2017

The HUB recently attended the JCB Waste & Recycling Event at JCB's World HQ in Staffordshire. This two day high profile event was attended by International press and customers and was designed to give a detailed insight into the full range of JCB waste and recycling equipment, and demonstrate their capability in a real working quarry environment. JCB had also brought together a carefully selected number of recycling partners with their innovative machines to show the full recycling process working. These partners included Mach-Tech, Hammel, Kiverco, Fireward, Trommall, Whitham Mills, CIWM, Blue Group, EDGE Innovate, GKD Technologies and RK6.

Guests were taken on a full VIP JCB factory tour and then onto the JCB Kevin Quarry to get up close with all the JCB range at a full grandstand presentation.



JCB models for every waste and recycling application

Materials handling vehicles and machinery are key elements for the successful and productive operation of any recycling or waste management site – so it makes sense to choose the right machine for the job.

The tasks machines are expected to perform on a typical site have evolved and so too have user expectations of plant. The machines should be 'Fit For Purpose' in terms of safety, efficiency and productivity and it is vital to examine their specification, management reporting and true cost of ownership. JCB's deep understanding of the unique requirements of the Waste and Recycling industry is reflected in the 35 machine strong Wastemaster range. Being the widest of its kind in the market means there is a model that is fit for purpose in any application.

JCB Hydradig Wastemaster breaks new ground

Making its first appearance anywhere in Europe at the JCB Waste Day, the JCB Hydradig Wastemaster is a totally new material handling solution. It brings new levels of innovation and engineering excellence to the growing compact wheeled machine sector of the waste and recycling market. The Hydradig Wastemaster is a ground-breaking digging, lifting, loading and tool-carrying machine for waste, recycling and municipal operations. The revolutionary machine delivers firsts on five important customer criteria to ensure maximised productivity and safety in waste and recycling operations:

- Visibility – an unmatched operator view around the machine
- Stability – a low centre of gravity to allow stable lifting while working at full reach
- Mobility – up to 40km/h between job sites (20km/h with solid and semi-solid tyres)
- Manoeuvrability – two and four-wheel steer and crab steering delivers maximum usability on the smallest of job sites
- Serviceability – ground level access to all maintenance points

David Banks, JCB Sales Manager for Waste & Recycling said: "With safety of paramount importance, the Wastemaster features a cab guard Falling Object Protection System (FOPS). This fully protects operators while they enjoy the benefits afforded by the cab's exceptional all round visibility. From ground level, the JCB Hydradig's all-round visibility also allows ground staff to see the operator at all times. In addition the JCB Hydradig's white noise reversing alarm and red and white chevrons improves site safety over conventional excavators."

"To maximise vehicle uptime, the JCB Hydradig Wastemaster has semi-solid tyres that eliminate the risk of punctures and an exhaust heat shield to protect the machine. Light guards are also fitted to ensure the Hydradig Wastemaster's lights are in full working order for operation on site and when travelling between sites on the road. Climate control also contributes to the productivity advantage by allowing the driver to work in a comfortable environment."



The JCB Proximity Braking System (PBS) demonstration



David Banks presents the JCB line-up

JCB innovation sees launch of JCB Teleskid world first

The JCB Teleskid is the world's first skid steer and compact track loader with a telescopic boom. The machine can reach 60% further forward than any other skid steer on the waste and recycling market. In addition, this innovative new machine can reach 8% higher than any other skid steer.

JCB Chief Innovation and Growth Officer Tim Burnhope said today: "Through innovation this machine will surpass the expectations of our customers as the world's first skid steer and compact track loader with a telescopic boom. The JCB Teleskid can reach further forward and lift higher and can also, if required, dig deeper than any other skid steer."

The JCB Teleskid will feature a fully enclosed cab that is 33 per cent larger than industry average, and JCB's myCHOICE software, allowing control responsiveness and joystick sensitivity to be tailored to suit operator preferences. A 74hp/55kW JCB Ecomax engine will provide high torque at a low RPM and ensure compliance with Tier 4 Final / Stage IIIB emissions standards. Tracked and wheeled Teleskid models will be sold in North America, while European markets will be offered the wheeled variant which is most popular in that region.



The JCB Proximity Braking System (PBS) demonstration



The World's best-selling Backhoe loader

Fitted with a package of features the Backhoe loader is transformed into a tailor-made, flexible and productive model for arduous waste environments. With its ability to power an extensive range of specialist attachments, the JCB 5CX Wastemaster will excel in the non-stop working environment typically found in all waste handling applications. Four stabiliser legs provide extra height for improved visibility into the waste containers, baler or shredder. The JCB Jaw Bucket or Selector Grab can improve compaction efficiency by up to 3 or 4 times. Powered by an 81 kW JCB EcoMAX engine the machine has three steer modes including 4-wheel steer and crab steer.

On-site safety taken to new levels with launch of new system

JCB also demonstrated their brand-new safety system for its wheeled loaders which reduces the risk of on-site collisions between man and machine.

The JCB Proximity Braking System (PBS) - which has been developed in collaboration with FCC Environment (UK) - automatically sounds an alarm in the cab and applies the vehicle's brakes if a person enters a pre-set exclusion zone around the machine. In addition the system automatically puts the vehicle into neutral and applies the parking brake.

In harmony with this, the at-risk pedestrian is also warned of the danger of a moving machine through a vibrating transponder attached to their safety helmet.

The new PBS system is being launched as an option on JCB's flagship wheeled loader, the mighty 19-tonne JCB 457, with plans to roll out the feature to the rest of JCB's wheeled loader range.

JCB Chief Innovation and Growth Officer Tim Burnhope said: "Safety on-site is of paramount importance and we are delighted to launch the new JCB Proximity Braking System which drastically reduces the risks to pedestrians."

Paul Stokes, FCC's Head of Safety, Health, Environment and Quality said: "As one of the UK's leading waste and resource management companies, we take health and safety seriously across all of our facilities in England, Scotland and Wales. We identified a need to reduce the risk of accidents in relation to our mobile plant and we approached potential partners with an auto braking concept. It is this concept where JCB went the extra mile to develop the Proximity Braking System for us and we are delighted that this system is now available to the rest of our sector and beyond."

The main features of PBS include:

- Detection zone providing a 'bubble' around the machine
- Vibrating transponder to warn the pedestrian
- Audible warning in the cab for the machine operator
- Automatic braking to help reduce the risk of a collision
- Ideal safety system for a range of industry sectors

JCB PBS uses triple antennas mounted on the wheeled loader, which generate a detection zone around the machine.

Operatives on site are equipped with a vibrating transponder, usually attached to a safety helmet. If the person enters the safety 'bubble' around the machine, the transponder will vibrate to warn the operative that they've entered a danger zone.

At the same time, the transponder also communicates with the machine, triggering an audible alarm in the cab and alerting the operator to the potential collision, whilst automatically applying the machine's braking system, bringing the loader to a halt. This potential collision is then recorded on the machine's MCU, with date and time information, so that further investigation can be carried out as to why the individual entered the machine's danger zone. This can be used to highlight further safety improvements that can be carried out on site.

The JCB Proximity Braking System can be fitted to multiple machines on a single site. It is particularly suited to heavily trafficked working areas, such as waste and recycling projects. Installation of the system requires a site visit and assessment, to understand the site operation, check on walkways, traffic routes and other site-specific variables that can affect the operation of the system.

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The entire team at CRJ services & Matpro Machinery

Machine milestone for hire giant – CRJ Services

Market-leading mobile recycling equipment supplier CRJ Services is proud to announce the purchase and arrival of its 50th Doppstadt trommel screener. The SM 620 model joins the ever-expanding hire fleet operating from Knutsford, Cheshire, which now consists of over 80 units.



All directors at CRJ Services Holdings Ltd. Left to Right: Kevin Jones, Robert Symons, Lee Carter, Ben McQuaid



The Symons family: Left to right: Joe Symons, Robert Symons, Mike Symons

Since its formation back in 1999, CRJ has grown to become the undisputed solution for short, mid and long-term material processing requirements across the UK; holding a range of slow and high speed shredders, drum screens, star screens, picking stations, mobile magnets and density separators, all available to hire for a variety of recycling applications.

Originally starting out solely focusing on green waste recycling contracts for councils in Cheshire, an early opportunity was identified to grow the business further with the lease of its existing machinery across the country; including its initial set of high-speed AK430 shredders. The hire fleet grew rapidly from here on, with CRJ soon expanding to offer other means of materials processing equipment,

50th Doppstadt Trommel at the site in Knutsford, Cheshire



including screeners and picking stations; notably acquiring its first Doppstadt 518 trommel from Doppstadt UK back in 2004.

Now a renowned nationwide brand with a growing presence in Ireland, CRJ has demonstrated its ongoing commitment to reaching their main goal of continuing to become a consistent and recognized force within the UK and Ireland recycling industry by teaming up and merging with leading equipment sales organisation, Matpro Machinery. The merge has enabled CRJ and Matpro to create one of the largest machinery hire and sales firms in the country.

CRJ/Matpro currently has 37 employees spread across its offices in Knutsford, Glasgow and Belfast, who are now both well equipped to respond better to market needs through the unification of resources. As a supplier and end user, they understand that aftersales is an integral part of the business and with that in mind they have 17 trained engineers, fully equipped service vans and a parts stock holding of over £1 million.

Robert Symons, Director at CRJ Services Holdings Ltd commented; "Service Excellence is the underlying factor behind our success and longevity. This is what I believe continues to differentiate us in the marketplace. For the past 18 years, we have been entirely focused on not only supplying the highest quality machines at good rates, but also offering a personable, honest and efficient service that adds value to our customers."

At CRJ we understand the needs of our customers, all the way from selecting the correct machine for the job to keeping one's operations running. We value having the most knowledgeable and passionate employees in the market who can provide the best advice from the outset, and unlike many of our competitors, we are equipped to tackle any customer issues within 24 hours, all thanks to our superb range of fully kitted-out service vans and dedicated team of experienced service engineers.

The 50th purchase milestone really shows how far we've come as an organisation, and without the superb group of people, family-type spirit and sense of togetherness we have here at CRJ, this wouldn't have been possible, so it's a major credit to everyone involved"

Technologically Advanced Waste Recycling Products from Steelweld Enviro

Two new innovative products designed specifically for the waste recycling sector have recently been launched by County Tyrone based Steelweld Enviro Products Ltd.



Steelweld Strobe ECS 1500

The Steelweld Strobe ECS 1500 is a mobile eddy current separator using a powerful magnetic field to separate ferrous and non-ferrous metals, such as aluminium and copper from a variety of materials. Incorporating the Master Magnets, ECS150 ensures that optimal separation and a maximum yield is achieved; it can process up to 30 tonnes an hour, depending on source material density. Its unique low feed height allows it to be directly fed from a Trommel.

It comes with crawler tracks, an on-board diesel generator and hydraulic power pack, allowing for easy site manoeuvrability and can be used to process a variety of materials including municipal solid waste, C&D reclaim, incinerator slag, biomass, shredded wood and crushed glass. A static version is also available.

Features

- Horizontal Vibratory feeder
- Low feed height
- Rare earth drum for ferrous metal separation
- 1500mm wide Master Magnets ECS for non-ferrous metal separation
- 3 integrated inclined discharge conveyors with hydraulic folding
- On board hydraulic power pack for crawler tracks control and hydraulic controls
- Powered by on board 65kW Generator or via mains electricity (customer supplied) via interlock switch
- Adjustable speed control on ECS rotor and ECS belt for optimal separation
- On board air compressor to allow cleaning of the machine
- On board working lights.

Steelweld Rotary AST 1500

The second product is the Steelweld Rotary AST 1500, a tracked mobile air separator using powerful air fans to separate waste based on its density; it will also be available as a static machine.

The input material is separated into two fractions varying from light to heavy. Like the Strobe ECS 1500, its unique low feed height allows it to be directly fed from a Trommel. It also has a fully adjustable feed belt, air system and air knife allowing for optimal separation control on a range of source materials.

Allowing ease of access to a variety of sites, the AST 1500 comes with an on-board diesel generator and hydraulic power pack and applications include C & D reclaim, shredded waste, compost, biomass and shredded wood.

The company is a subsidiary of Steelweld Fabrications Ltd which has over three decades of experience partnering with world renowned brands, manufacturing equipment on a 60,000 sq ft site in Cookstown.

With state-of-the-art facilities, Steelweld Enviro Products Ltd. designs and manufactures a world class range of innovative solutions for waste recyclers. Having sold machines in the UK, Ireland and Europe, the new company are currently in the process of building a global network of agents.

The result of a year long project, the new machines include a mobile metal separator and an air density separator.

"Setting up Steelweld Enviro Products Ltd was the next natural step in the development of the company and we are very excited by the potential of these new products. Both can be transported on a low loader trailer without permits, and with quick set up times and an easy to use push button control panel, the innovative designs guarantee high performance and low maintenance."



Features

- Horizontal Vibratory feeder
- Low feed height
- Fully adjustable 1500mm wide accelerator belt with speed control
- 5.5kW x 2 Blower fans with accurate air flow control
- Recirculating dust control system
- 2 integrated inclined discharge conveyors with hydraulic folding
- Removable dust covers over vibratory feeder and lights conveyor
- On board hydraulic power pack for crawler tracks control and hydraulic folding
- Powered by on board 65kW Generator or via mains electricity (customer supplied) via interlock switch
- On board air compressor to allow cleaning of the machine
- On board working lights

Highly Recommended

The new separators have attracted a highly favourable response from customers. One commented: "We highly recommend the new Strobe ECS 1500 due to its fantastic build quality and the fact that it has been designed and manufactured by world renowned expert engineers. For us, it is quite simply the best mobile magnet in the market place at the moment and offers fantastic value for money."

Adds another: "The machines are highly robust and perfectly engineered and we believe the unique elements of the new Strobe ECS 1500 stands it apart from other mobile metal separators."



As Steelweld Enviro continue to grow, they plan to add to their existing line of products, so watch this space!

For further details, contact Steelweld Enviro Products Ltd on 028 86 766495, email sales@steelweld-enviro.com or visit the website at: www.steelweld-enviro.com.



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MB Crushing Bucket helps Valori London Ltd recycle 100% of materials on-site

Valori London Ltd have already reaped the benefits of hiring a Crushing Bucket and so were keen to try one for a second time.

On their last job they succeeded in recycling 100% of materials on the site. This was thanks to a MB Crushing Bucket, which they hired from Worsley Plant, and made a great impression on their client.

Valori London have more than 50 years experience in the demolition industry and carry out many types of demolition in the London area, including residential blocks, warehouses, city centre sites, incorporating façade retention, strip out, site clearance and recycling of materials. During 2016 they became an approved contractor for the London Borough of Brent Council.

Their latest project involved demolishing an old Adventure Playground building next to a school in North London. The building to be demolished had a steel frame with concrete slab and brick walls. The demolition work involved removing the slab and recycling the hardcore and concrete, and putting in a site compound.

Due to its first time success, Valori decided to hire in another Crushing Bucket to help them recycle everything they demolished on the site once again. It was only the steel that needed to be taken off site so that it could be sent for full recycling.

Before they approached Worsley Plant, Valori London Ltd would remove any concrete and hardcore from a site via dumper truck and then import crushed material back in, which would involve dumper trucks moving back and forth. Using the Crushing Bucket on site allowed them to crush the materials on site and re-use them to put in the site compound.

The MB Crushing Bucket helped them to save time and money which they would have spent on skip hire and two dumper trucks, not to mention the impact on the environment, thereby reducing Valori's carbon footprint. They also saved several days on the overall project timings.

Brendan Walsh Valori London's Contract Manager, said: "Having hired in a crushing bucket for our last two jobs we are now converted to the benefits of using them. For us it is important to recycle all materials if possible. To be able to do this on site is a big plus! Working with Worsley Plant makes the hire process seamless, and they have a dedicated sales and installation team on hand at all times. Their service levels are impeccable"



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The Blue Scotland Open Day showed a clear demonstration of machine portfolio and commitment to service and support

After receiving an invitation to attend this event the HUB team travelled to Stirling, Scotland to experience and understand the strength and depth of the Blue offering.



Hosted by Central Demolition at their Bonnybridge operation the company commenced business in 1993 and today is a very successful, award winning company. Despite what their name suggests they are more than just a demolition company and their range of services include demolition and dismantling, asbestos removal as well as recycling and site clearance.

With the focus on a reduction of environmental impact, the company has continued to grow and manages waste on-site at their recycling facilities where they can cope with all waste from household rubbish to bulk concrete

and demolition arisings. 90% of material brought to the site is recycled through their waste plant and sold as aggregate.

Investment in equipment over the last few years has been significant and the company now boast a huge array of recycling equipment which includes an innovative Powerscreen washplant. Most of the equipment that has been installed at Bonnybridge has been supplied by Blue Scotland, who have supported the company for almost 20 years. It was therefore an easy decision for Central Demolition to host the two-day event for them.

The Blue Scotland Open Day:

Held over two days the event was a total success with in excess of 100 visitors accepting the invitation to see what Blue Scotland had to offer. The day started at the Blue Scotland facility where a huge array of static equipment was on display which included a range of Doppstadt and Powerscreen machines. Also on show was the spare parts facility, service department and refurbishment facility.

Having enjoyed lunch the visitors were all transferred by bus to the Central Demolition 'live' demonstrations at Bonnybridge. Here the tour started with each piece of machinery described by a specialist as it worked through a process starting with a Doppstadt 3060 F type processing wood waste being loaded by a Fuchs MHL 331. This was

followed by more action in the EvoQuip area with a Bison 120 and a Colt 800 being put through their paces, with the specialist describing the process and the relevant features of each machine as the tour proceeded.





In the next area, a Powerscreen Premiertrak 400 and a Chieftain 2100X were busy processing C&D waste and were ably assisted by a brand new Cobra 230 Impactor which fed the BlueMAC plant, with any material being further reduced by a Powerscreen 1000 Maxtrak. All material was then fed to the wash plant and finally stockpiled by a Chieftain 1400 screen.

In the waste sorting area visitors were treated with the sight of a Fuchs MHL 331 and MHL 340 who demonstrated their agility as they handled and sorted tonnes of material for processing.

Overall the event was a total success with visitors coming from as far away as Wick to watch the equipment in a

working environment. To add to the success of the day, Central Demolition purchased a Warrior 1400 – fitted with the new design Combi deck – to help process and clean the volume of incoming material to the site.

Austin Carey – MD - Blue Scotland, commented, "It was a very successful event and a great opportunity to show our visitors the machines in action and the support we provide. People took time out of their busy schedules to attend and on behalf of the Blue team I would like to thank them for their time. Also, a big thank you to Ross Craig and the Central Demolition team who gave us their incredible support and the provision of their site for the demonstrations."



www.hub-4.com/directory/2260

Anglian Land Drainage invest in a Portafill Washing Plant

Anglian Land Drainage, based near Chelmsford, Essex have invested in a new Portafill 3000 Washing Plant from Riverside Machinery Ltd.

The plant consists of a Portafill 3000 Rinser, Portafill DW80 Sand Plant, Sand Stockpiler and Fresh Water Pump.

The plant is being put to use to screen a mixture of materials including recycled material, virgin material and reed bed material.

Depending on the mesh fitted to the rinser, a number of sizes are being produced. These include 5mm, 10mm, 20mm and 40mm.

The plant can produce 2 grades of stone and 1 grade of sand.

Power is supplied by diesel driven engine in the Portafill 3000 Rinser which in turn supplies hydraulic power to the Portafill DW80 Sand Plant.

John O'Neill of Riverside Machinery comments "this is an extremely compact plant which all moves on one load making it very desirable to companies who wish to wash in several locations. In addition, due to the footprint, it is ideal for small sites"



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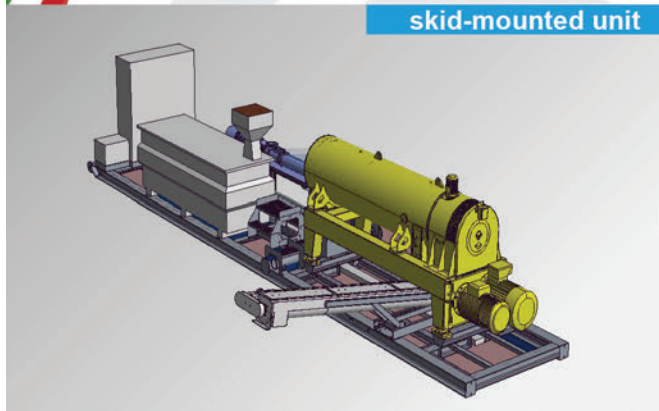
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Hilton Park Services Salt Barn Refurbishment

Elite Precast Concrete were approached by Midlands-based contractor Currall, Lewis and Martin (Construction) Ltd (CLM) to provide their high strength interlocking Legato blocks as part of the Salt Barn refurbishment project being carried by Kier Construction on behalf of the Highways Authority.



The Legato blocks were to be used to line the walls of the salt barn creating additional safe storage for the road salt which is kept on hand for gritting during the winter months.

Key elements of the project included the difficult access into the building, the fact that the building floor was sloping and issue of there being thousands of tonnes of salt already stored in the building.

CLM took on the task of casting level plinths onto which the blocks could be placed and organised the timing of installation of the blocks by making sure the salt already stored on the barn was moved over to one side.

The off-loading and installing of the blocks was contracted to the specialist lifting and contracting business owned and operated by Andy Fones – AA Installations. Andy has many years of experience of operating at the highest level of safety standard whilst completing some of the most challenging lifting / placing / installing projects involving heavy precast concrete elements.

By close liaison between CLM, AA Installations and Elite Precast Concrete the blocks were safely installed in two parts – one side of the salt barn and then the other – thus insuring minimal disruption to the day-to-day running of the facility at Hilton Park.

Elite Precast Concrete carry large stocks of their high strength Legato blocks so AA Installations were able to order them straight 'off-the-shelf' and the fact that the blocks are designed to a minimum 100 year working life means that the client will have benefit of the newly refurbished salt barn as part of their annual challenge of keeping the motorways open during the winter months for many years to come.



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The device operates when the electronically stimulated piezos cause the probe to vibrate. When the sensor is covered with material, the vibration is dampened and the resulting electrical current change causes the output signal to switch. This oscillation action of the probe ensures a certain amount of self-cleaning.

The Mononivo® sensors can be ATEX, IEC-Ex and FM certified. Therefore they can be installed for safe and reliable use in potentially explosive environments. The dustproof design of the MN device, robust stainless steel shaft and the device's high sensitivity offer a totally reliable long-life solution as an all-purpose limit switch.

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SKF keeps things running smoothly

Automatic lubrication systems ensure that critical machinery is topped up with exactly the right dose of lubricant – and at the right time...

In simple terms, they comprise a pump – under the influence of a controller – to distribute grease to multiple lubrication points. They are particularly useful in large systems with multiple lubrication points, such as excavators, off-road vehicles and agricultural machinery.

SKF offers a wide range of systems that operate under harsh conditions. The LMC 301 is a programmable controller for sophisticated lubrication applications. It monitors lubricant use with transducers and pressure switches, and can control up to three pumps at the same time – so can handle systems running different types of lubricant system and lubrication cycles.

At the same time, SKF's Lincoln EDL1 incorporates a pump with integrated control board and offers several advantages: lubricant can be supplied to it at just 2bar, so it can be installed at the end of long lubricant feed lines.



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Vortex Roller Gates for a dust-tight material seal

The Vortex Roller Gate is a superior choice for handling dry material in gravity flow or low-pressure applications where dust tight sealing is required. The Roller Gate is available in a wide variety of configurations including rectangular sizes and specific customer bolt patterns. Roller Gates are ideal for many dry material applications such as mixing and blending. The Roller Gate can be applied to shut off, or meter, the flow of fine and moderately abrasive powders, and small to large granulars or pellets. It also handles sticky materials, can be installed horizontally or vertically, and is ideal for the food, cement, chemical, plastics, and textile industries.

The Vortex Roller Gate has live-loaded wear compensating seals that prevent materials from escaping into the bonnet area of the gate. These seals are easily replaced without removing the valve from the processing line. The Roller Gate utilises easily accessible, nylon cam-adjustable rollers instead of blade guides – a feature that is critical to avoid material packing. The Roller Gate can also be fitted with an optional return pan to prevent material leakage into the atmosphere.

Adapting the Roller Gate to a system is made easy with a wide selection of gate positioning controls, position indication switches, and flanges. The Roller Gate also offers a wide variety of modifications to accommodate a range of temperatures, corrosive, humid, and explosive environments. Vortex Roller Gates also offer a wide variety of actuation choices including electric hydraulic, pneumatic, chainwheel, and hand crank. Standard sizes are 100mm to 760mm (6" to 30") with an aluminum channel frame and stainless steel material contact. Options include rectangular sizes, stainless steel construction, inlet/outlet transitions, seal access ports, removable seals, and more.



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Rapid Concrete Mixer Upgrade for Lagan Tile Supports 24 Hour Production

Rapid International Ltd (County Armagh) has recently supplied Northern Ireland based Lagan Tile with a new RP1000 Rapid Planetary Concrete Mixer. The mixer was specified due to its high capacity and increased levels of energy efficiency. The new mixer has been installed in Lagan Tile's roof tile production plant located in Lisburn, County Antrim.

Lagan Tile began producing concrete roof tiles in 1995 at a purpose built factory near Lisburn in County Antrim, Northern Ireland. Since then, the company has grown from strength to strength, supplying customers in all sectors of the building industry in the UK and Ireland with quality products.

Lagan Tile is a division of Lagan Products, which manufactures a comprehensive range of high quality building products for the UK and Irish construction industry, including, roof tiles, cement products, readymix concrete and blocks, bricks, sand, chimney and clay products. Lagan Products is one of seven divisions of the Lagan Group. Established in 1962, the family owned Lagan Group is one of the largest privately owned companies in Ireland, employing over 1,000 people with a turnover in excess of £350 million. From roads to runways, construction materials to civil engineering, Lagan Group operates worldwide in a diverse array of sectors constantly driven by its vision to build brighter futures.

As a prior customer of Rapid, Lagan were confident in their decision to purchase the RP1000 Rapid Planetary Concrete Mixer as a solution to their requirements for higher capacities and increased levels of energy efficiency. The mixer was supplied in partnership with Concrete Batching Systems, who designed, manufactured and carried out the full mechanical installation and integration of the Rapid Mixer, providing Lagan Tile with their specified mixing plant upgrade.

Commenting on their concrete mixer purchase, Lagan stated that they are "...very happy with it in terms of reliability and production, it has integrated very well into our manufacturing processes." They further added, "We found the service from Rapid to be excellent, when we



have needed support there has always been someone to help us. We had the usual teething issues at the start of the project but Rapid helped us resolve them quickly."

John Pickering, Sales Manager - Rapid, commented, "We were delighted that Andy and his team at Lagan chose to go with Rapid. Reliability was imperative to Lagan in order to support their 24 hour production schedule. Rapid became the clear choice for Lagan and we were happy to be able to provide a reliable solution that can meet the 24/7 production that they require."

The Rapid RP1000 Planetary mixer is capable of producing output batches of 1.0m³ and is ideal for smaller outputs, precast products and semi-dry coloured concrete. The Rapid Planetary's star mixing action comprises of up to three rotating mixing stars, with each star consisting of two rotating mixer paddles. This unique mixing action ensures fully homogenised concrete. The RP1000's standard features include: durable chill cast tiles, wear sleeves, paddles and heavy duty discharge door mechanisms. Safety concerns are mitigated with spring tensioned mixing arms. The mixer is complete with an up-rated gearbox, supplied by a specialist gearbox manufacturer.

 www.hub-4.com/directory/5066

High Powered Permanent Overband Magnet Now available with freestanding frame

Magnapower have launched the Light Weight – Heavy Duty Overband unit combined with a cantilevered frame. The significant advantage of this equipment is that it can be installed simply and quickly over an existing conveyor. The frame is lifted from just one side and can be conveniently positioned upon delivery. The complete unit is ready to operate once connected to a motor power supply.

The overband can be fitted with an electric or hydraulic motor. The frame is supplied complete with a stainless-steel discharge chute so that the extracted ferrous metal is directed into a separate bin.

The magnet system has a high performance deep field permanent magnet to maximise ferrous extraction without any power supply to the magnet. The overband is fitted with safety guards at both ends and the working gap can be adjusted to suit different product types and to increase separation efficiency.



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A guide to staying safe this spring when working with precast concrete products



When working with precast concrete products, it is crucial to help minimise the risk to health by preventing and reducing the amount of settled dust in your workplace through several key housekeeping practices.

In today's rapidly growing construction industry, more and more individuals are being exposed to precast concrete products. This exposure if not correctly managed, can lead to long-term respiratory illnesses which transpire from contact with respirable crystalline silica, found in most rock, sand and clay products such as bricks and concrete.

It is important that the respirable dust around the products is controlled and the effected work areas are cleaned regularly; it is also imperative to understand that not all elements of the precast dust can be seen with the naked eye so all work surfaces must be cleaned sufficiently.

There are many factors to consider when preventing illness in your workplace and some of these include the following:

Control and Cleaning Methods

Ensuring that there is appropriate equipment set up in the workplace is key to eliminating and reducing dust settle; it is important that tools and cleaning equipment are easily accessible for all staff to use. It is also vital that any spillages are cleaned up immediately to lessen the contact with dust particles. When using vehicles and equipment in the workplace that are prone to generating dust, remember to close all windows on the vehicles and change filters regularly to limit exposure to the surrounding dust. Don't brush dry surfaces, brushing the ground will allow the dust particles to spread further, resulting in a more compromised working area. Always vacuum or dampen the surface prior to brushing.

Clothing

Your workers uniform and PPE can be contaminated with dust particles, ensure that they change clothes with those that have been placed in a separate, safe and clean storage area.

If possible, it is also good practice to advise workers that washing and showering before leaving the worksite can help prevent transferring unwanted dust particles.

There are also dusk masks available for instant protection against the dust and an array of different respirators that can be used for different job roles.

Health Monitoring

When working in a compromised environment, measuring and recording health is important.

The rate, depth and pattern of breathing record will allow you to keep track of respiratory health and allow you to see how the dust is affecting your immediate health. All doctor surgeries will provide you with information on how to access this.

Businesses can significantly reduce the risk to health by having the relevant procedures and safety requirements in place. Ensuring the managers and health and safety advisors understand the key responsibilities and the requirements for working with respirable crystalline silica is fundamental for the company. Educate the workforce and promote good housekeeping then manage it. If you get buy in from all, you will help eliminate the amount of dust particles that settle in the workplace, ultimately resulting in a healthier work force!

For further guidance on working safely with pre-cast products and how to control this, please call Mentor Training Solutions on 01246 386900 or alternatively visit the website at: www.mentortrainingsolutions.co.uk



Four years of reliable operation for the DUO - BDU and Tripper Storage System at Aggregate Industries - Sheffield

Following the demise of the Tinsley rail marshalling yards in Sheffield and the subsequent development of a smaller yard in 2007, this was followed by the opening of the Sheffield International Rail Freight Terminal (SIFRT); with part of the remaining brown field site taken up by Aggregate Industries for a £1.5 million investment in a rail-fed asphalt plant.

With a successful tender DUO Manufacturing designed and built a BDU and Tripper Storage System for Aggregate Industries which was duly commissioned and put into operation in 2013 when the site became fully operational.

Designed by DUO in conjunction with AI engineers the BDU incorporates 9 stock bunkers and can handle up to 1500tph of aggregate, enabling a train to be shunted and unloaded in just 2.5 hours.

The site receives a scheduled daily train of 1500 tonnes which comprises of a mixed load of 20/14/10/6mm aggregate and dust. This is despatched from 3 quarries – Bardon Hill (90%), Croft (7%) and Haughmond Hill, Shropshire (3%). All incoming material is then used solely for the on-site asphalt plant.

Richard Stott – Production Manager, commented, “Originally, we only received trains on alternate days but as demand grew we moved to daily deliveries. It really is a very quick and efficient system of unloading; most of the time is spent shunting the train to get the wagons into position.”

The rail discharge system:

The rail discharge system at Tinsley was designed to emulate the operating philosophy, and utilises design features and components of previous successful systems built by DUO Manufacturing.





The bottom discharge unit is housed within a secure, purpose-built building which is fully sheeted with single-skinned cladding and equipped with two lockable personnel doors complete with internal panic bars. Comprising of an operating area at rail level this is completely decked with galvanized durbar plates with viewing areas enabling the operator to check the flows of material on the discharge conveyors from the rail level platform. A G.R.P operators cabin, the wagon opening devices and motor control centre are also all located at this floor level.

A specially constructed bridge structure is designed to carry 25.5 tonnes maximum axle loads from 104-tonne gross weight wagons and locomotives to pass over one underground receiving hopper. Two electrically operated, rail-mounted, wagon door opening trolleys are provided along the discharge section, which are manually positioned and held in place by a foot brake.

Material is discharged into a receiving hopper which feeds a 13.5m long x 1800mm wide conveyor (C1). Material from this short conveyor is then fed onto an

inclined 27m long x 1400mm wide transfer conveyor (C2) which is supported on steel trestles with the GTU/drive being supported by a tower.

This covered conveyor leaves the discharge building and then enters the BDU building discharging material onto the 88m long tripper conveyor (C3) through the high-level intersection housed in the bin penthouse annex, tied into the storage bin structure.

The reversible cross conveyor which is mounted on the traversing tripper carriage is 6m long x 1800mm wide and feeds the material from (C3) to the designated bin department. The storage bin facility has an approximate live capacity of nine bays - 3 x 1,500t and 6 x 800t with a total capacity of 9,300t.

Richard further commented, "It is a credit to DUO, the system has handled over 1.5 million tonnes of aggregate without fault since installation, I couldn't fault the quality of the build it is first class! It was a huge investment for Aggregate Industries which over time has turned into a very successful operation."



www.hub-4.com/directory/928

Successful WS2.10 polyurethane chute lining

A bespoke installation of a WS2.10 polyurethane wear protection system as a chute liner has proven to be a worthwhile investment for one of TEMA Isenmann's long established clients.

The decision to utilise polyurethane was based up on the end users many years previous experience of Isepreen products proven in screening applications of crushed sand and gravel offering exceptional quality and service life longevity. The extensive range of polyurethane compounds available have enabled TEMA Isenmann to maximise lifetime to satisfy the client's requirements.

Thanks to its ease of installation and long wear life, the WS2.10 lining system reduces plant maintenance and labour costs, but more importantly eliminates the safety hazards involved with installing and replacing standard steel, rubber and polyurethane liners that have to be glued, bolted or welded.

'With quarry companies fully committed to the health and wellbeing of their employees, safety has been, and continues to be, an important priority for us when it comes to designing and developing new products and updating our existing equipment portfolio,' commented Phil Cranston, TEMA Isenmann's Managing Director.

'We work very closely with aggregate producers and OEM's, what makes us different in the market is the great success working in partnership with our customers to help them optimize equipment uptime, increase their operational efficiencies and improve their overall health and safety performance.'



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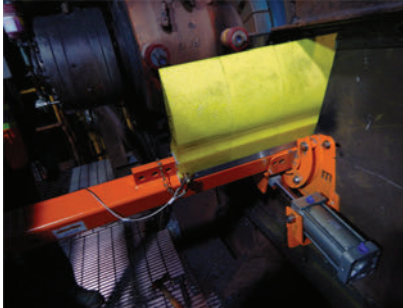
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Safe-to-Service Conveyor Belt Cleaners reduce risk and service time



The new STS Belt Cleaners reduce the need for confined space entry and reach-in maintenance.



External servicing reduces confined space entry and eliminates reach-in maintenance, while facilitating faster blade replacement.



The slide-out design is engineered so the blade cartridge can be accessed safely and replaced by a single worker.

A global leader in bulk material handling technology has introduced a new family of heavy-duty conveyor belt cleaner designs, engineered so the blade cartridge can be pulled away from the belt for safe access and replaced by a single worker. Martin Engineering developed the Safe to Service (STS) blades to secure both primary and secondary cleaners rigidly to the conveyor mainframe, while offering more versatility and easier access. Initially available on the Martin® QC1 Cleaner HD, Martin® QC1 Cleaner XHD and Martin® SQC2S Secondary Cleaner, external servicing reduces confined space entry and eliminates reach-in maintenance, while facilitating faster blade replacement. The result is greater safety and efficiency, with less downtime.

"Routine maintenance and replacement of blades that require reach-in or chute entry is an unpleasant and potentially dangerous task for workers," said Daniel Marshall, Product Engineer for Martin Engineering. "We developed the STS system so operators could work on the product safely from outside the chute wall, without breaking the plane of entry."

Innovation Through Necessity

The system was originally developed for an international client who needed a safer method for workers to replace cleaner blades on the company's large conveyor system. After field-testing, operators found that the STS design lowered the chance of injury and required fewer workers to perform maintenance, contributing to greater overall process efficiency.

Made of rigid steel, the STS manifold is a circular mandrel fitted with a square shaft on which the blade cartridge is attached. Dual tensioners separately adjust either end of the patented Constant Angle Radial Pressure (CARP) blade on the primary cleaner and the cushioned reversible blade on the secondary cleaner, for a tight, consistent seal on the belt.

Designed for conveyor speeds up to 1200 FPM (6.1 mps) and belt widths from 18 to 120 inches (457 to 3048 mm), the STS system is well suited to heavy-duty applications faced by industries such as mining, scrap and coal handling. The rugged QC1™ Cleaner XHD primary cleaning blade removes the bulk of the carryback, equipped with a polyurethane

formulation to match the application. Primary cleaner urethane blades come color-coded to suit specific applications and are set in a multi-hole cartridge, allowing the sliding blade rack to be lined up with the material path for effective cleaning. The SQC2S™ Secondary Cleaner uses a tungsten tipped blade on a rigid polyurethane base or rubber buffers, which allow the system to handle belt reversals and rollback with no damage to the belt or splice.

Focus on Safety

"Part of innovation is not only better mechanical performance, but also improved workplace operations," said Marshall. "We've found that, in our pursuit to engineer a safer component, efficiency naturally follows."

The STS design eliminates many of the factors that expose workers to potential injury. To remove the blade cartridge, operators bring the conveyor to a full stop and make sure that no loose material is near the header. Once the area is deemed safe, using appropriate lockout/tagout procedures, they simply disengage the blade cartridge from the tensioner and pull it out far enough to remove the quick release pin. The blade is replaced, pin reset, rack pushed back into position and the tensioner re-engaged. A single experienced maintenance technician can typically perform the replacement, resulting in a total reduction in the man-hours invested.

Many existing systems on the market require workers to enter the chute to perform maintenance and blade replacement. The Occupational Safety and Health Administration (OSHA) calls for employees entering the chute to carry a confined space entry permit, but chute entry can involve up to three people: the entrant, the attendant and a supervisor. By eliminating the need for required permits, valuable labor can be reallocated elsewhere.

"Though the STS is currently geared toward heavy-duty conveyor systems, we're working on expanding the technology to accommodate more of our product line," Marshall revealed. "Our ultimate goal is to reduce and eventually eliminate reach-in and chute entry injuries related to blade cleaning and maintenance."



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HUB Features 2017

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

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July 17

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Editorial copy deadline 5th July 2017

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September 17

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Editorial copy deadline 5th September 2017

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November 17

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

RECYCLING - Mobile equipment for the recycling industry.

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Editorial copy deadline 5th November 2017

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