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2015

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

2015

2nd - 4th JUNE

Issue 33

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# UK aggregates industry continues its struggle to replenish reserves

**The UK aggregates industry continues to be unable to replenish its production with new reserves. In 2014, less than half of the aggregates extracted were replaced with consents for new reserves. This is one of BDS Marketing's conclusions from its analysis of planning applications and consents in the aggregates industry. Commenting on its findings, Director Julian Clapp said: 'Only five months' of production were replenished last year. The situation was slightly better in sand and gravel. However, in crushed rock, just three months' production was replenished during 2014'.**

Only in the south east, did aggregates companies manage to fully replenish the amount of sand and gravel extracted during the year. In many other areas - such as Wales, West Midlands and northern England, few consents were granted.

The vast majority of quarries - over 95% - will have seen reserves lower at the end of 2014 than at the start of the year.

The situation does not look likely to improve in the short term. BDS picked up three major planning applications (in excess of 10 million tonnes) submitted during 2014 which remain outstanding. However, elsewhere, the level of new applications for additional reserves remains low.

Over the previous 25 years, BDS believes that only in 2006 has the quarrying industry more than replenished the reserves taken out during the year. In one other year, new consents granted were similar to production. However, in all other years, the consultancy estimates that consented reserves failed to match production.

The success rate of planning applications is good. During 2014, 20% of applications were refused or withdrawn. 'The situation is helped by a large proportion of applications - around 40% - being for extensions of time to work already consented reserves' said Julian. 'There is a greater likelihood of these applications being consented and is a reflection of the last recession when outputs fell below expected levels'.

**[www.bdsmarketing.co.uk](http://www.bdsmarketing.co.uk)**



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## CMS Cepercor completes the latest part of the jigsaw

**Having commissioned their new Technical Centre in 2013 the latest part of their expansion plans at their global headquarters in Coalville is nearing completion with the opening of their new purpose-built corporate head office building.**

When complete the new facilities will incorporate their corporate and administration functions alongside research and development, quality inspection, crusher training facilities and a substantial expansion of their existing crusher parts storage and distribution warehousing.

These last few years has seen substantial investment at their expansive premises in Coalville which has enhanced all aspects of the business; including the manufacturing, inspection and repair facilities in order to meet the increased demand for their parts and services.

With approved UK manufacturing facilities which include CNC, milling, turning, boring, slotting, grinding, drilling, pressing, welding, co-ordinate measuring, material testing and assembly, CMS Cepercor not only offer replacement crusher, screen, feeder and coating plant spare parts but also crusher rebuild and component repair services.



The new headquarters development will be officially opened later this year upon completion of all stock storage and infrastructure works.

Lee Hodges - Commercial Director, commented, "After years of sustained growth and an increasing workforce further expansion of our site was essential to allow the business to continue fulfilling its potential. Our new facilities will allow us to continue to grow whilst enhancing our ability to serve customers at the highest level ensuring we remain the genuine alternative".

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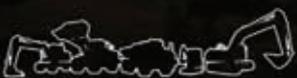
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## David Wolstencroft promoted to Operations Director at 4B Chains



**4B Braime Elevator Components, a worldwide manufacturer of material handling and electronic components for bucket**

**elevators and conveyors, has promoted David Wolstencroft to the position of "Operations Director - 4B Chains", within 4B Braime UK.**

"This appointment recognises both the huge contribution that David has made to the rapid growth of our Chain business and the role we need him to play in continuing its future growth", said Nicholas Braime, Chairman of the 4B Braime Group.

David first joined the company over 20 years ago as a young graduate engineer working under the guidance of Jim Mawson, before moving to the USA to work for 4B USA as Technical Sales Manager of the Material Handling Components.

On his return to the UK, David took control of the Group's Chain Division, managing the supply of Chain to all 4B's subsidiaries, helping them with the Technical Support for chain customers, and assisting them to significantly grow the Sales of Chain across the Group. At the same time, David has continued to greatly improve the operating efficiency of the UK Chain business.

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## PRECIA MOLEN - a French company with weight



**Leading industrial and commercial weighing company PRECIA MOLEN has achieved cumulated sales of €95.4M in 2014, showing a 7.2% rise compared to 2013.**

This growth was due to an industrial strategy structuring based on three levers: external growth via strategic acquisitions and international expansion, investment in R & D, as part of an incremental innovation strategy and finally the relocation of production.

**PRECIA MOLEN is the only player in the French weighing market to compete with the world leaders.**

Rene Colombel - CEO of PRECIA MOLEN, commented, "The macro-economic context of 2015, which combines the decline of the euro and recovery plans, should enable the company to see its domestic and export business progress. The recent acquisition of The Barbier companies will also provide a real source of growth in the domestic market."

### **French production - a bold strategy**

PRECIA MOLEN is one of the few players in the industry to manufacture in France and chose to maintain its production sites based in Privas and Veyras, in the Ardèche. These sites manufacture thousands of weighing solutions annually, of which 35% are sold outside France. The production of the majority of components for weighing solutions (sensors, electronic cards, and software, metal or concrete structure) is carried out at the group's sites, or outsourced in France, in order to maintain optimal performance.

### **Sustained external growth**

Over the past year, PRECIA MOLEN has completed the acquisition of three key weighing players:

- Barbier Weighing -The family group including the Barbier SAS and its subsidiaries, specializing in industrial and commercial weighing over 50 years, located in the north west of France and Paris.
- Antignac SAS, specializing in industrial and commercial weighing, located in the south west of France.
- Shering Weighing Ltd, based in Dunfermline, Scotland, who has since 1946 applied its expertise in weighbridge manufacture. PRECIA MOLEN benefitting from the acquisition of a competitive production unit in the UK.

Through these acquisitions, PRECIA MOLEN has strengthened its regional coverage and international presence to underpin an even more efficient and responsive service.

### **From Privas to Sydney**

PRECIA MOLEN is present in over 40 countries and has 13 subsidiaries worldwide; in recent years, PRECIA MOLEN oriented international expansion in the Asia-Pacific region, where there is a high potential for PRECIA MOLEN products, with the creation of an office in Kuala Lumpur (Malaysia) and the opening of a subsidiary in Australia.

PRECIA MOLEN now has more than 850 employees, including 180 based in Ardèche, an increase of the workforce by 36% in 5 years.

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# Exhibitions

**INTERMAT**  
Paris



**INTERMAT**

20-25 April 2015

Paris-Nord Villepinte,  
France

<http://paris-en.intermatconstruction.com/>



**WASTE '15**

2 July 2015

AJ Bell Stadium,  
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[www.wastexpo.co.uk](http://www.wastexpo.co.uk)



**PLANTWORX**

2-4 June 2015

Bruntingthorpe  
Aerodrome,  
UK

[www.plantworx.co.uk](http://www.plantworx.co.uk)



**RWM**

15-17 Sep 2015

NEC, Birmingham, UK

[www.rwmexhibition.com](http://www.rwmexhibition.com)



**PAWRS 2015**

9-11 June 2015

Paignton, Devon

[www.pawrs.com](http://www.pawrs.com)



**ICBR 2015**

**(Battery Recycling)**

23-25 September 2015

Montreux,  
Switzerland

[www.icm.ch](http://www.icm.ch)



# & Events Diary

**BULKEX**  
2015



**BULKEX 2015**  
21-22 October 2015  
Harrogate  
[www.mhea.co.uk](http://www.mhea.co.uk)



**HILLHEAD 2016**  
28-30 June 2016  
Buxton, Derbyshire  
[www.hillhead.com](http://www.hillhead.com)



**BAUMA 2016**  
11-17 Apr 2016  
Munich, Germany  
[www.bauma.de](http://www.bauma.de)



**POLLUTEC 2016**  
5-7 Dec 2016  
Lyon, France  
[www.pollutec.com](http://www.pollutec.com)



**IFAT**  
30 May - 3 June 2016  
Munich, Germany  
[www.ifat.de](http://www.ifat.de)



**CONEXPO**  
7-11 March 2017  
Las Vegas, USA  
[www.conexpoconagg.com](http://www.conexpoconagg.com)



# EDGE Innovate 2015 Global Dealer Open Event

**Friday 16th January saw EDGE Innovate's State of the art Headquarters in Co. Tyrone, N. Ireland hold their Global Dealer Open Day. More than 80 guests from over 20 countries attended the day-long programme, which included a factory tour along the production facilities and a walk around tour of the machines given by sales and technical personnel. Managing Director Darragh Cullen commented; "Today is really about firming up and expanding upon our relationships with our customers. It's about cementing trust. It's also about reminding you our dealers about our range of equipment and giving you all the chance to work with other EDGE distributors and share stories and opportunities"**

The open day also hosted the unveiling of a new addition to the EDGE product portfolio; The TRM 516 trommel. The TRM516 boasts design features such as a sixteen foot long drum, four wheel direct drive system, variable speed control drum and feeder conveyor with load sensing controls. Optional oversize and radial conveyors are available for higher stockpiling requirements. The TRM516 has been innovatively designed for fuel efficiency and low operating costs thanks to the unique fuel and energy saving control system. Another notable advantage is the ease at which the unit can be transported from site to site, thanks to it's fully road towable design. With numerous screens and drum types available (including a telescopic oversize conveyor for larger stockpiles) the TRM516 provides high flexibility and is the perfect option for end users who are constrained for space.

The official launch of this machine follows an aggressive portfolio of product launches which has seen a wide range of products come to market over the past number of years. A selection of this portfolio was also in attendance. Machines on site at the event included the;

## **Radial Truck Unloader RTU220**

Introduced in 2014 the RTU220 provides operators with a highly efficient loading tool, designed to allow operators to continuously load directly from trucks into train wagons or barges. The full HMI control panel and remote control functions provide operators easy control of the RTU functions whilst loading. An independent track mounted unit, the RTU220 provides flexibility and reliability. Powered by a CAT 4.4 96KW (129HP) diesel engine, the RTU220 offers huge torque whilst only consuming 12-15 litres per hour (3-4USG). Further cost savings are provided by a dual power option.

## **Roll Sizer RS1500 Upgrade**

The new upgraded EDGE Roll Sizer now boasts an increased hopper capacity from 7m<sup>3</sup> to 11.25m<sup>3</sup> and a lower feed in height of 3.3m allowing the RS1500 to be fed by any wheel loader without the need for a constructed ramp. The RS1500 Pre-Screen has been redeveloped to facilitate various mesh screens for fine screening applications. The feed conveyor now boasts a twin drive system to facilitate the transfer of larger material volumes.

## **FMS Fines Plant**

The new EDGE FMS Fines Plant has a 10 stage separation process and is the perfect solution to reducing landfill costs. The new plant incorporates a mobile feeder stockpiler with bespoke hopper, our new flip flop screen, over-band and head drum magnets, blowers and our new material classifier. The FSM fines plant is another example of EDGE Innovate providing solutions to meet the ever changing demands placed on recycling facilities.

## **The EDGE Slayer/Shredder XL Basket System**

With the new Slayer XL screening system, material is shredded to the required particle size in just one pass, cutting down on production times and operating costs. The baskets come in various apertures from 50mm to



250mm depending on the customer requirements and can be quickly removed or exchanged for different aperture screens. The EDGE Slayer can be used as either a primary or secondary shredder due to its highly robust design and superior resistance to difficult to shred material.

### **RTS/ Radial Track Stockpiler Series**

The RTS Radial Track Stockpiler is a unique concept to the marketplace. Essentially it is a Radial Wheeled Stockpiler and Tracked Stockpiler all-in-one! The remote control track system is used to move the machine around site including rough terrain. It is also of benefit when re-locating the machine to a different site as it can easily be tracked onto a low loader or Low-Boy. When the machine has been positioned for work using the Tracks, the EDGE Radial Tracked Stacker can produce a 360° stockpile.

### **LTS / Low-Level Track Stockpiler Series**

The LTS Low-Level Track Stockpiler introduces operators to a solution for the stockpiling and transferring of hard rock and ore for the mining and quarrying industry. The LTS is a long life, low maintenance Apron Feeder Stockpiler. The LTS is uniquely designed to allow for low level loading of material from the largest wheel loaders. The huge hopper capacity and heavy duty apron pads mean the LTS can easily cope with the extreme demands of any quarrying or mining application.

The EDGE Open Day also consisted of a site visit to the nearby skip hire company McKinstry Skip Hire. Guests were keen to see the EDGE machines working in real recycling applications for which they were designed. The machinery line-up at McKinstry's included the Material Classifier MC1200, The EDGE shredder Slayer with the new basket system, the Trommel TRT622, and the Tracked Stockpiller TS65.



Despite bitterly cold weather conditions the high spirits continued with dinner at the Armagh City Hotel followed by corporate presentations from the Marketing Department, After Sales Department and EDGE Managing Director.

### **Catherine McKernan of the EDGE marketing department;**

"Overall, 2014 has proven to be very successful with the EDGE brand becoming increasingly recognisable across the industry; 302 units have been sold into 31 different countries, with material being conveyed over 8303 meters. We are fully committed to building upon this in 2015 alongside our dealers which we will continue to support throughout"

**Patrick Campbell of the EDGE After Sales Department;** "Here at EDGE we want to be as competitive as we can and in doing this we must have a structured plan with each dealer to maximise their levels of support to the end user. We currently hold in the excess of £1.5 million worth of stock here at EDGE which proves a major benefit and peace of mind to you the Dealer"

### **The evening's talks concluded with EDGE Managing Director Darragh Cullen;**

"We are delighted with the performance of the EDGE brand to date. The early days were quite difficult if I am to be honest. Business gurus have various opinions on when the best time is to start a business. Many would argue that the middle of the biggest ever worldwide economic downturn would not be the smartest move. As ever, we had our own ideas. Five years ago we began the process of researching the market, talking to potential customers and devising a strategy. From a standing start we have developed into a business with a £15m turnover. We have an expanding product portfolio and above all a team of highly committed and experienced personnel"

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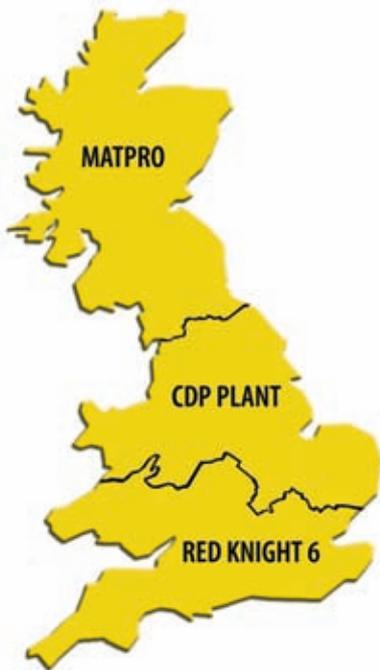
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## Anaconda appoints two new UK distributors

**Anaconda Equipment, the Northern Ireland crushing & screening specialist, are delighted to announce 2 new distribution channels in the UK with the appointment of Red Knight 6 (RK 6) and Matpro Machinery Ltd.**

Paul Donnelly and Aaron McVeigh of RK 6, and Ben McQuaid of Matpro Machinery, have spent many years in the industry and are highly regarded for their hard work, support and product knowledge when it comes to providing the right equipment for each application.

Anaconda provides a range of mobile crushing, screening and conveyor equipment enabling both distributors to offer solutions to the waste, demolition and the extractive industries. RK 6 will operate in the South of the UK, including South Wales, Matpro in Scotland and the North of England with existing Anaconda distributor, CDP Plant Ltd of Chesterfield, in Central England and the North of Wales.

For more information on the range on offer please contact your UK distributor - see map for details.

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## DUO Africa awarded Highly Commended Regional Dealer of the Year at the Powerscreen World Dealer Conference

(R) Luke Talbot - Director DUO Africa with the award from Ron DeFeo - CEO, Terex Global

**Held at Fort Lauderdale, Florida, USA the Powerscreen World Dealer Conference is a major gathering of dealers and their customers. The three day event from the 17th-19th March is also a major opportunity for Powerscreen to demonstrate their latest machines and present awards to their most successful dealers over the past 12 months.**

Having already been placed 3rd place in 2013 out of 120 dealers after only 10 months of trading, this year saw DUO Africa gain a prestigious award - 'Highly Commended Regional Dealer of the Year'. The awards are judged based on a dynamic scorecard which rewards distributors for superior achievement across a range of business disciplines including: providing excellent customer support, achieving machine and parts sales targets, financial management and commitment to the Powerscreen brand.

This award presented to DUO Africa is purely down to the successful efforts of the team led by Luke Talbot. In the last three years DUO Africa has built an impressive portfolio and client base and established itself with offices in Ghana and Tanzania and an African Service Centre carrying a comprehensive stock of Powerscreen and Terex spares.

As an official Powerscreen and Terex representative selling crushing, screening, washing and conveying equipment into Africa, DUO Africa have gained considerable experience in several African countries from multiple washing, crushing and screening projects in recent years.

Alex Moss - CEO, DUO Group, commented, "Luke was delighted to receive the award on behalf of DUO Africa, its all credit to the team who have performed so well since the inception of the company. DUO Africa is underpinned by a great team of experienced engineers who provide support on the same levels offered to UK customers. We are all now looking forward to more future challenges in what are very exciting times for the DUO Group."

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The Group



## The best of both worlds with the new EDGE TRM516

**Edge Innovate's reputation has been gained not only as a high quality equipment manufacturer but also as an organisation quick to respond to changing customer needs and demands. Individual machine concepts and improvements are less likely to be the brain-child of a particular engineer and more likely to be an idea that has originated from the yard of a skip hire company or a recycling facility. With decades of experience in equipment engineering and design, the Edge Design Academy adopts a listening approach to customer interaction.**

The entire EDGE product range can trace its roots back directly to equipment end users. EDGE's new TRM516 Range is no different. Their Global Dealer Open Day on the 16th January saw the unveiling of a robust mobile trommel designed for the Recycling, Composting and C&D industries in the form of the TRM516.

Managing Director Darragh Cullen speaking at the unveiling of the TRM516; "Numerous dealers and customers over the past number of years have expressed interest in a Trommel of this size and spec. Over the past couple of years, such requests have increased. There is a huge market for high performance trommel's, the success of our 622 tracked and wheeled trommel is evident of that"

With numerous screens and drum types available the TRM516 series provides high flexibility and is the perfect option for end users who are constrained for space. Thanks to design features such as the sixteen foot long drum the TR516 is able to produce top-quality fine materials such as compost, gravel, sand and topsoil with ease. What's more, because these materials can spend a greater amount of time in the longer 16ft drum, you will be able to achieve enhanced screening results. The TR516 series will cater for a wide range of applications, whether it is industries such as the aggregates, skip waste management, and those wishing to process industrial and demolition waste. This new addition to the

EDGE trommel range is more than capable of handling many material types that only larger trommels previously could with ease.

Design features include an overload sensing system. The drum and the feeder work together to prevent overloading using Pressure Transducer Technology. Hydraulic pressure being used to drive the drum is constantly monitored. If it is too high then the feeder will slow down automatically, if the pressure is still too high then the feeder will slow down again to an eventual stop. Once the pressure in the drum begins to drop then the feeder will speed up again automatically.

One consideration for EDGE when designing this machine was the question of the end fines conveyor type machine versus the Side Fines Conveyor design. By engineering a very compact end conveyor machine, EDGE have kept the advantage of a side conveyor product with all the advantages of the end conveyor offering, ultimately giving the customer the best of both worlds. For those users that require a 90 degree output conveyor, the radial conveyor can of course be set to 90 degrees either left or right to offer this feature.

Innovatively designed for fuel efficiency and low operating costs, the TRM516 can be easily transported from site to site. The TRM516 boasts a sixteen foot long drum, four wheel direct drive system, hydraulic variable speed control drum and feeder conveyor with load sensing controls. Optional oversize and radial fines conveyors are available for higher stockpiling requirements. As always with EDGE Innovate given EDGE's superior global Aftersales support; the relationship doesn't end with the sale, it begins.

The TRM516 is the first product to be revealed by EDGE Innovate in 2015 with more new additions to be expected throughout the year, including a track version to be added to the TR516 Trommel Series. For more information regarding the new TRM516 Mobile Trommel, contact [info@edgeinnovate.com](mailto:info@edgeinnovate.com).



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# WASTE'15 show to host Defra, EA and CIWM

**Skip Hire Magazine, the people behind WASTE'15, are pleased to announce that Defra, the Environment Agency and CIWM will be hosting the show's seminar panel at what has been dubbed the waste industry event of the year.**

The show takes place on Thursday 2nd July at the AJ Bell Stadium off junction 11 on the M60 in Manchester.

WASTE'15 will gather together people from skip hire, the recycling industry, the municipal sector and local authorities. Just like last year, the show aims to combine the most innovative, most relevant and most important people together to exhibit to UK and European visitors in the market.

Show organiser, Debbie Higham, helped bring the seminar panel together for this year's event.

"Last year, we hosted the HMRC who fielded questions from the attendees regarding the incendiary trommel fines debate. We were very satisfied that the industry had a chance to address the issues they faced with the HMRC face-to-face. This year, the EA, Defra, WAMITAB, UROC and CIWM are on board to speak to delegates about a range of issues."

The show has almost booked up already and hosts the key players within waste - the skip yard owners, the equipment manufacturers, the vehicle distributors, the parts suppliers - every sector of the industry. WASTE'15 is a great place to catch up with associates, network and have a look at all the latest developments in the trade.

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- Free listing in the July issue of Skip Hire Magazine, available at the show
- All sponsorship on all marketing material pre- and post-show
- Entertainment and dining post-set up and lunch provided mid-exhibit

## Interested in visiting?

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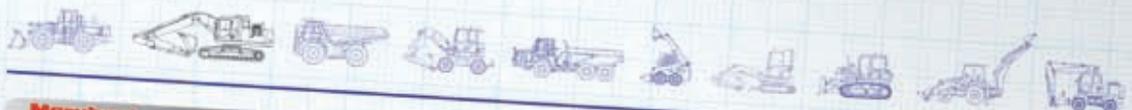
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# Worsley Plant is a winner at the Plantworx innovation awards



## Lehnhoff Variolock Quickcoupler scoops award!

Worsley Plant are proud winners of a PLANTWORX Innovation Award, following a ceremony held yesterday at the Gherkin in London, hosted by the CEA.

PLANTWORX 2015 organises the Innovation Awards to recognize and celebrate those innovative companies, products and services that have made a major impact in the construction equipment industry. Open to all PLANTWORX exhibitors the Innovation Awards is an opportunity to highlight any significant new products and services introduced to UK construction market in the 12 months before the show. The Innovation Awards are judged by an independent panel of judges, representative of the entire construction industry and as diverse as the award entries themselves.

Worsley Plant entered the Lehnhoff Variolock Quickcoupler System into this year's Engineering Innovation category and were delighted to be amongst the winners.

The broadest category in this year's awards, the Engineering Innovation category was also the most eagerly contested, attracting a record number of entries from the four corners of the plant and equipment sector. As well as Worsley Plant's, entries ranged from a new dozer from Case through to an 11 tonne, 360 degree rotating tracked dumper from Cautrac to an electric drive wheel loader from Wacker Neuson that has been designed for work in inner city and zero emissions applications.

But there were two products in this category that shone through, primarily for their ability to do an existing task but to do it better. One was the Lehnhoff Variolock Quickcoupler that allows a machine operator to switch attachments safely and securely without leaving the cab of his machine. The Lehnhoff system really impressed the judges and received Highly Commended in the category.

Sean Heron, Worsley Plant's Managing Director, who collected the award said: "We are delighted to have won this prestigious award, judged and presented by industry professionals. It is a well-deserved win for Lehnhoff Variolock Quickcoupler System, which is unrivalled in its ability to allow quick tool changes within 15 seconds. Variolock turns your hydraulic excavator into an all-round specialist allowing easy and frequent changes of tools. Each attachment is ready for safe use in a matter of seconds. Changing any attachment is effortless, safe and fast."

Worsley Plant have partnered with Lehnhoff Hartstahl in Germany, to become the exclusive UK distributor of the System.

Worsley Plant is one of the UK's leading providers of materials processing equipment to the recycling, demolition, construction, landscaping and waste management industries. Wheel loader and excavator-mounted screening and crushing buckets, demolition attachments, as well as density separation equipment are all available for sale or hire nationwide.

 [www.hub-4.com/directory/783](http://www.hub-4.com/directory/783)

# Mentor to exhibit at Vertikal Days

**Mentor Training are returning to Haydock Park for lifting and access event, Vertikal Days, on 13th and 14th May 2015.**

The two day event presents the latest products and services on offer, with a wide range of equipment types on display from access platforms and mobile access towers to telescopic handlers and cranes, as well giving visitors the chance to attend relevant seminars and workshops.



## Train on-site or off-site

Mentor are inviting those attending to join them on Marketplace Stand MP10 to discover the benefits of accredited operator training courses held in the delegates' regular working environment. Available nationwide, Mentor Instructors visit the customers' own location to train on the specific skills required for safe, efficient operation on their site, using their equipment and geared towards their applications.

For those who prefer off-site training, Mentor encourage visitors to ask about upcoming IPAF and PASMA accredited open courses at their UK training centres, and to keep an eye on their website - [www.mentortraining.co.uk](http://www.mentortraining.co.uk) - for their online booking facility, coming soon.

## Register for a free ticket

To find out more about Vertikal Days and register for a free ticket, go to [www.vertikaldays.net](http://www.vertikaldays.net), and be sure to visit Marketplace Stand MP10 to meet the Mentor team at the show.

 [www.hub-4.com/directory/6755](http://www.hub-4.com/directory/6755)



# New Equipment takes centre stage at Plantworx

**The 2nd Plantworx exhibition promises to be yet another construction equipment extravaganza, with a host of manufacturers displaying new machines - some never seen before in the UK. The show has moved venues from the first event - visitors will find Plantworx at Bruntingthorpe Aerodrome, Leicestershire from 2nd - 4th June 2015.**

No matter what equipment you are interested in - you'll find it at Plantworx - earthmoving equipment, compaction kit, drills and hammers, compressors, attachments and much, much more. Some of the exhibitors will be strutting their stuff on the demo plots and others have taken the leisurely option with impressive static displays.

The event, hosted by the CEA (Construction Equipment Association) is the UK's largest 'working' construction equipment event spanning over 135,000 square metres and will have over 320 exhibitors committed to the show with half of these exhibiting at the event for the very first time. In terms of size and exhibitors numbers the 2015 show has far exceeded the inaugural 2013 exhibition event and the Plantworx team is expecting the show to be a 'sell out' - making this event a spectacular action packed 3-days!

Visitors to the show, which spans over 100,000 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. 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!

### **An expected sell out**

At the last count 311 exhibitors have committed to the show with half exhibiting at the event for the very first time. In terms of size and exhibitor numbers the 2015 show has already exceeded the 2013 exhibition by 20%.

Rob Oliver CEO, (Construction Equipment Association), said, "Since the turn of the year space bookings have gone crazy. It may be that we will have to start a waiting list soon! The pavilion sold out a month ago and the remaining demo space is going very fast. We are delighted at the support the industry has shown for Plantworx and the show is and will always remain - a show for the industry by the industry."

Rob added, "We thought by adding 40% extra space we would meet demand - with deadlines for show guides and on site services swiftly approaching, those delaying their bookings until after the Easter holidays may be disappointed. The event is certainly proving to be popular with our exhibitors and visitor registrations are well ahead of 2013.

Latest survey figures from the Committee for European Construction Equipment (CECE) show the UK and Ireland to be the second highest rated region in the world for

anticipated market growth. Companies expecting sales growth in the UK over the next six months outweighed those expecting a flat or negative picture by a whopping 43%. Only North America received a higher rating. These results further underline the fact that PLANTWORX comes at a good time in the business cycle for machine suppliers in the UK".

Many new launches have been confirmed from companies such as JCB, Hyundai, ECY Haulmark, Avant Tecno, Cat Finning Takeuchi, Komatsu, Takeuchi, Wacker Neuson to name but a few - there are too many to mention!



### **Demonstration Highlights**

The Digging Demonstration areas at Plantworx is the place to be if you are looking for plant and machinery action and will be a focal point for visitors to see new machines and ideas being demonstrated in a real life working environment. In keeping with working machinery demonstrations, plant owners and operators will be offered the chance of 'stick time' on a wide variety of machines on presentation of the necessary accreditation, in keeping with industry guidelines such as CPC card, CMPE or NPORS.

### **Diversity is the name of the game**

Plantworx 2015 will provide visitors with an incredibly diverse range of equipment, technology and services, and nowhere is that more evident than in the Plantworx Pavilion. With the popular Pavilion sold out early in March it once again promises the most varied line-up of exhibitors yet seen at a Plantworx exhibition. While the external demonstration areas at Plantworx provide a chance for visitors to see the latest equipment at work, the Pavilion allows both end users and manufacturers to get under the skin of that machinery. Component suppliers provide an essential role in the back-up and service of existing equipment, while their continual evolution and innovation offers equipment manufacturers a chance to improve and advance the design of their machinery.

### **Site Clearance and Demolition Zone**

Quick to embrace new developments to make work safer, cleaner and more productive, the demolition and site clearance sector is one of the most innovative in the construction equipment sphere, as evidenced by its representation within the Plantworx Awards. Plantworx 2015 provides an ideal shop window through which to view the latest developments in this fast-moving sector.

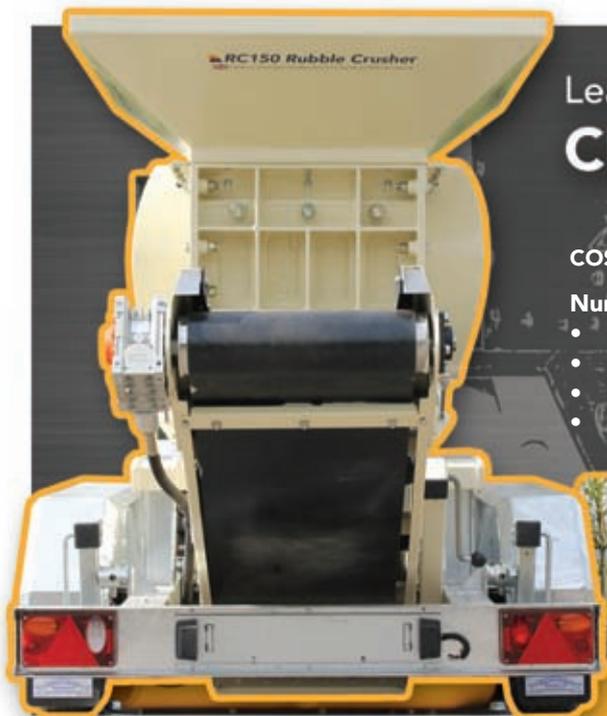
## Addressing the Skills Shortage

In response to the current skills shortage in the construction equipment sector the final afternoon of the show there will be a Plantworx student afternoon where students and teachers from primary and secondary schools and colleges will be invited to visit the show (after 12pm on Thursday 4th June) to get a taste of the Construction Equipment Sector. There will be no lower age limit after 12pm and the afternoon is aimed at encouraging youngsters to look at the construction equipment sector as a career. Visitors to the show are also welcome to bring younger family members along.

**PLANTWORX**  
2nd - 4th JUNE 2015  
BRUNTINGTHORPE

Visitor registration is now open for **PLANTWORX** and entry is free for more details and to see a full exhibitor list visit [www.plantworx.co.uk](http://www.plantworx.co.uk). Put 2nd, 3rd and 4th June in your diary and we will see you at **Bruntingthorpe Aerodrome, Leicestershire.**





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[www.ktr.com](http://www.ktr.com)

# Viby to show innovation by the bucket load at Plantworx

**Danish bucket manufacturer Viby Attachment will use Plantworx 2015 to once again demonstrate why its buckets are continuing to prove so popular in the UK.**

Viby will be exhibiting a number of buckets and other attachments at the June exhibition with a sharp focus on innovation and evolution as a result of close customer relationships.

For the first time in the UK, Viby will be showcasing its new compact Hy-Tip bucket, which has taken the waste & recycling market by storm since its introduction last year. Although much lighter and smaller than the company's standard Hy-Tip models, it retains the strength and durability that Viby is renowned for.

Designed to rehandle low-density materials, typically below 1,000kg/m<sup>3</sup>, the bucket is ideally suited for the waste recycling sector where overall machine size and operating cost are critical. It is targeted at wheeled loaders up to a maximum operating weight of 10,500kg, or telescopic handlers.

Andrew Little, director of Viby Attachment (UK) Limited, said: "The new compact bucket has been really well-adopted by the market place. It shows how we've been listening to those customers who needed something much lighter for their operations."

Other Hy-Tips on show at Plantworx include both a standard version, with Viby's unique single-point lubrication system, and another first-timer for the UK in the shape of a new Light Duty, High Capacity Hy-Tip bucket (9.5m<sup>3</sup>) with twin inboard rams. This bucket is aimed specifically at the timber and agricultural grain handling sectors, where the inclusion of inboard rams acts to reduce weight while increasing capacity and productivity.

Mr Little said: "This bucket has been trialled and tested successfully over the past 12 months and is now fully available in the UK. It signals an evolution in design, taking our vast experience of refuse Hy-Tips direct to the timber industry."



**PLANTWORX**  
 2nd - 4th JUNE 2015  
 STAND NO. 12D6

Another innovation being exhibited by Viby is its Refuse bucket with non-steel toe plates. Once again, Viby has responded to a number of waste and recycling customers who have experienced damage to concrete flooring as a result of hard-wearing steel toe plates on their buckets. For these customers, Viby now offers bolt-on toe plates with plastic or rubber edging. The choice of compound is currently in final stages of testing to determine which works best.

"Some of our customers wanted a product that reduced the downtime and maintenance required as a result of hard steel bucket edges damaging their concrete yards," said Mr Little. "Our solution has proven very effective. Overall, it's enabled us to reinforce our offer to waste firms as well as providing another good entry to the important timber market."

He added: "All of these new developments and innovations are the direct result of us listening closely to our customers, and properly understanding their individual needs."

In addition to the above products, Viby Attachment will be displaying a loader Quick Hitch, Waste Grab and a General Purpose bucket.

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Stand No. 5E3

Made in the United Kingdom



**PLANTWORX**  
2nd - 4th JUNE 2015  
STAND NO. SCZ20



## CMB International to exhibit the RC150 Rubble Crusher at Plantworx.

Following the successful launch of the RC150 Rubble Crusher at last year's Hillhead exhibition, CMB International will exhibit and demonstrate this simple but effective machine at the forthcoming Plantworx exhibition to be held at Bruntingthorpe Aerodrome (2nd-4th June).



As an established manufacturer and service provider in the Aggregates industry this is a completely new venture for CMB International which has been designed and developed utilising all their in-house expertise over the last two years at their Ravenstone HQ in Leicestershire.

### The ULTIMATE machine.

The RC150 Rubble Crusher is the ultimate, self-contained mobile crusher; a simple but extremely effective machine. A robust build coupled with minimal maintenance the RC150 is easily towed by light vehicle to your destination of choice to crush or recycle material, with immediate start-up to produce crushed material.

### The RC150 Rubble Crusher has numerous applications:

- Recycling
- Demolition
- Infrastructure
- Natural stone quarrying, mines, gravel pits and river beds.
- Gold mining

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

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

With three models currently available including a 'stand- alone' crusher the new RC150 Rubble Crusher is simply a 'total solution' for low to moderate crushing projects; featuring a 650 x 350 single toggle jaw crusher (throughput capacity of 10-60tph) mounted on a heavy duty chassis, complete with fixed hopper and foldable conveyor. With no electrics required the RC150 is powered by a Hatz 3L41C air cooled silentpack diesel engine.

A full technical specification and typical product analysis is available on request by calling +44 (0) 1530 563600 or email [sales@cmb.uk.com](mailto:sales@cmb.uk.com)

Come along and see this amazing machine on stand SCZ20 in the Site Clearance Zone.



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# STAND OUT FROM THE CROWD

# BIG plans underway for 2015



Pictured: Mr Hubert Watson with Mr Stu Gamble & Mr Tom Barry signing Master Importer agreement at Agg-1 Expo.

Maximus Crushing & Screening are going from strength to strength in the Crushing & Screening Sector, what a busy start to the year!



Maximus Crushing & Screening have recently announced the launch of Maximus North America, LLC, their new headquarters in Webster, Massachusetts. Over the past few months, and, since attending the AED Summit and Agg-1 Expo, 6 new dealers have come on board, 4 in the North East, 1 in Oklahoma and 1 in California.



Pictured: Mr Adrian Fletcher with new Customer Peter Bennie Group

## Business is booming in all other parts of the world

Willowbrook Plant Ltd, (dealers of Maximus Crushing & Screening for the South of England) have been extremely busy with enquiries and orders. Willowbrook Plant Ltd have recently become ISP members of the NFDC (National Federation of Demolition Contractors). To date they have had a very positive start to the year selling their first MXJ-1200 Jaw Crusher and 522 T Screener to the Peter Bennie Group, Wroxton.

KSD Recycled Aggregates in Coleshill are also the new owners of a 512 Screener and the most recent sale of a 409 Scalper has been made to Eagle Contractors in the West Midlands. The Maximus machinery has made a huge impact on these customers and there has been a positive response so far in the UK. Willowbrook Plant Ltd are planning a Global Demonstration at the end of April to demonstrate the 516 Scalper to both overseas and UK based customers.

2 Machines from the Maximus range, the MXJ-1000 Jaw Crusher & 516 Scalper played their part in the development of the new airport, Carlisle. Both machines, hired by Stobart Rail, were used to crush and screen the old runway, which was then re-used in the construction of the new airport. The MXJ-1000 has since moved on to JCB who needed a reliable machine to assist them during their demonstrations.



Pictured: MXJ-1000 doing its thing at the refurbishment of Carlisle Airport



Taylor & Braithwaite (dealers of Maximus Crushing & Screening in the North of England) have sold their first 516 Scalper to Cumbria based L & W Wilson. The customer was very pleased with the competitive costs and excellent machine capabilities, that they have placed their 2nd order for another.

Both Willowbrook Plant and Taylor & Braithwaite will be attending the Plantworx exhibition, running from 2-4 June. On display will be the Maximus 409 Scalper. Drop in and see what Maximus Crushing & Screening can offer. Stand 12A7 & 12A9.



Pictured: 516 purchased by L & W Wilson.



www.t-and-b.co.uk



www.maximusscreening.com



www.willowbrookplant.com

# Hyundai Presents New Generation of Machines at Plantworx

**PLANTWORX**  
 2nd - 4th JUNE 2015  
 STAND NO. 14B2 & 15B2



**Hyundai Heavy Industries Europe will once again be exhibiting at Plantworx construction machinery exhibition at the events new venue - Bruntingthorpe Aerodrome Leicestershire (2nd - 4th June) and is showing a wide range of machines including six brand new models which will be making their UK debut.**

Hyundai, in addition to showing a range of new machines, which have not yet been seen at a UK event, the company's demonstrators will be putting the new HL960 wheeled loader and the new HX260L heavy line excavator to the test in Hyundai's demo arena. Visitors should head over to stands 14 and 15 B2 to check out what's hot from the South Korean manufacturer.

**New UK Launches...**

Visitors to the Hyundai stand will see the brand new R17Z-9A mini which has been designed for contractors who are working in confined spaces such as urban settings or manoeuvring in sensitive landscapes.

Targeted to contractors and tradesmen who need a reliable and productive machine, the new R17Z-9A rounds out Hyundai's mini excavator range and is a compact, nimble machine that provides plenty of power to get the job done.

The new R17Z-9A has a Kubota D902 engine which is rated at 11.7kW (15.7 hp). Weighing in at 1.7 tonnes this zero tail swing machine is canopy-equipped and does not yet come with a cab option.

When fitted with a 960mm long dipper arm, the R17Z-9A provides a maximum dig depth of 2190mm. This mini excavator achieves true zero swing capability and it has two speeds of travel, traveling at 2.2 km/h at the lower end and 4.1 km/h at the higher end of its range. There are also two, rather than four, canopy posts - offering the operator an optimal work environment. In addition

the boom cylinder is placed in the traditional position under the boom, rather than on top like some competitors.

The 30 tonne HX300L and the 26 tonne HX260L heavy line excavators will also be making their UK debut. The new machines are equipped with new Cummins engines which are compliant with the latest regulations (Tier4 final and EU Stage IV) for exhaust Nox reduction and particle matters. Hyundai has opted for a combined solution of EGR and SCR technologies, without the need for an additional DPF. At the same time a reduction in fuel consumption of up to 10% has been achieved - in line with the nature of the machine activity.

The cab on these machines has also been redesigned - not just the front window but also the door - which is now easier to open from the inside with an extra handrail. These finishing touches on the inside of the cab mean greater comfort for the operator. The interior of the cabin has been re-arranged to provide 10% more space for the operator and better air circulation with the newly developed air-conditioning system. The operator has more available storage space and a new instrument panel and controls.

Inside the cab is a new and bigger eight inch monitor screen which is easier to read, full colour and with more functions, including centralized switches for a number of applications. The main view on the screen is adjustable to the operator's preference and can be controlled by touch and/or by the new haptic control button, which is a common feature in passenger cars.

There is also Bluetooth connection to make 'hands free' calls in the cab. Wifi Direct (Miracast) provides screen mirroring of a smart phone on the cabs monitor.

The new 16 tonne R160W-9A -wheeled excavator will also be seen for the first time in the UK at Plantworx. This machine is so new that the full specification has not yet been received from the Korean factory.

New wheeled loaders on show will be the HL960 (in the demonstration arena) and the HL970 (world-debut). Again these new wheeled loaders are still in production and the specification has not yet been released from Korea - but watch this space...!

### **Additional machines on the Hyundai stand...**

Other machines on display on the Hyundai stand are the 2.6 tonne mini R25Z-9AK excavator, the 8 tonne midi R80CR-9A excavator, the 14 tonne R140LC-9A excavator, the 12 tonne R125LCR-9A excavator, and the 18.5 tonne HL760-9A waste handler spec machine.



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# MAKE LIFE EASIER WITH THE EC220E EXCAVATOR

Just because the working environment's harsh, it doesn't mean the job has to be difficult. The new Volvo EC220E, with its eco-friendly Volvo Stage IV D6 engine, uses its fuel more efficiently to power effortlessly through each cycle. And life has been made more comfortable inside the cabin too. Thanks to a redesigned user interface, simpler handling makes it easier to focus on production. Even carrying out a regular service is easier and safer: all the filters are now grouped and accessible from ground level. With an excellent warranty and superb aftersales care, you'll be glad you selected the Volvo EC220E for the job.

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Volvo Construction Equipment





## ECY Haulmark returning to Plantworx

**ECY Haulmark are delighted to be returning to Plantworx to exhibit at their second show. Here are a few of the highlights we hope to bring to visitors attending the show.**

We will be featuring the full range of FRD Furukawa hydraulic breakers on our stand. Starting with the smaller FX range including the FX15, FX25, FX35, FX45 & FX55 which are suitable for 0.5-7.0 tonne machines. Applications ideal for the FX range include groundworks, utilities, landscaping and small construction projects. The Furukawa FX range would appeal to national plant hire companies and smaller construction companies hiring out their smaller range of excavators.

Still relatively new to the UK market are the FXJ mid-range of Furukawa hydraulic breakers recently replacing the XP range. The FXJ range includes the FXJ135, FXJ275, FXJ375 & FXJ475 which are suitable for 12-55 tonne base machines. The benefit of The FXJ is that it is one of a kind in the market, thanks to the new mono-block design. With this new design there are no through bolts needed and it ensures more power and resistance.

For those visitors recycling C&D Waste we will be showcasing the RubbleMaster RM70Go compact crusher. Our recycling experts will be on hand to guide you through the benefits and cost saving advantages of owning or renting the

RubbleMaster to tackle your onsite recycling needs. We will demonstrate how you can eliminate costly waste to landfill taxes and start crushing for as little as fifty pence per tonne by utilising RubbleMaster crushers and screens.

We are also delighted to be returning with the OilQuick automatic quick coupler system to the live demonstration area stand. See how quickly and efficiently OilQuick can change between attachments in a matter of seconds, reducing valuable downtime, keeping the operator in the safety of the cab and eliminating expensive hose repair bills. There are now over one hundred OilQuick units in operation around the UK, making it the tried, tested and proven automatic quick couplers proving why the top demolition companies in the UK have come to install the system onto their entire fleet of machines in recent years.

As well as all of the above we shall also be exhibiting our usual selection of VTN demolition & recycling attachments, LaBounty steel shears and processors and Dynaset hydraulic magnets.

**Stand 12B3 & 12B4**

[www.hub-4.com/directory/382](http://www.hub-4.com/directory/382)

# New Doosan and Bobcat Products at Plantworx 2015

**Doosan Construction Equipment will be showing new products from the company's Doosan Heavy, Bobcat and Doosan Portable Power ranges for the first time at the Plantworx 2015 Exhibition being held in the UK from 2-4 June 2015 at Bruntingthorpe Aerodrome in Leicestershire.**

This will be first appearance in the UK of the new Doosan '-5' ranges of crawler and wheeled excavators, wheel loaders and articulated dump trucks (ADTs) meeting the latest Stage IV emission regulations. Several Bobcat products will also be shown for the first time, including the new S450 skid-steer loader, the new E17 to E20 1-2 t compact excavators and new Bobcat telehandlers. The stand display will be completed by new generators and compressors from Doosan Portable Power, including several new Stage IIIA, Stage IIIB and Stage IV compliant models.

## **New Generation Stage IV Machines**

Doosan has just launched nine new Stage IV compliant crawler excavators from the 22 tonne DX235NLC-5 to the 52 tonne DX530LC-5 models, as well as the new DX170W-5 and DX210W-5 wheeled excavators. All of the new models, of which several will be on show and working at Plantworx, offer enhanced comfort and controllability together with new features to boost uptime and return on investment, with a focus on increased power, robustness and agility. These advances are marked by a distinctive new machine styling scheme for all LC-5 machines.

The Plantworx stand will also feature the new high performance DL300-5 to DL550-5 Stage IV wheel loaders from Doosan, replacing the successful Stage IIIB loaders launched in 2012. Providing another leap forward in wheel loader design again represented by new external styling, the DL-5 range offers increased productivity and fuel economy, with features such as a new high comfort cab, powerful Scania Stage IV engines, smooth and responsive hydraulics, a ZF powertrain, axle cooling and auxiliary hydraulic connections.

Like the new generation Doosan excavators and wheel loaders, the DA30-5 and DA40-5 Stage IV ADTs go far beyond just meeting the latest emission standards and incorporate many additional features and product improvements to establish a new benchmark in load carrying performance, fuel efficiency, enhanced controllability and high operator comfort, together with improved reliability, durability and reduced maintenance and servicing costs.



Common to all these Stage IV machines from Doosan is the new factory-installed CoreTMS state-of-the-art wireless fleet monitoring system, a tool designed specifically for the Doosan range, providing comprehensive information about machine performance in a dual mode (satellite, GSM). At the heart of all the new Stage IV machines are Doosan or Scania water-cooled diesel engines which offer convenience and lower costs by meeting Stage IV emission regulations without the need for a diesel particulate filter (DPF), through the use of cooled exhaust gas recirculation (EGR) and selective catalyst reduction (SCR) after-treatment technologies.

The new generation S450 skid-steer loader from Bobcat builds on the success of the S130 model it replaces, by combining the advantages offered by a truly compact loader with many of the new features and improvements found on the larger Bobcat new generation models. As well as its compactness, the S450 skid-steer loader can be supplied with a comprehensive choice of 48 different product families of Bobcat attachments (with more to come), offering solutions for a very wide range of applications and providing a perfect illustration of the Bobcat Tool Carrier concept common to all Bobcat compact loaders.

## **Fully Pressurised Cab Option**

Like the larger loader models, the S450 skid-steer loader offers significantly improved comfort and visibility to allow for greater control and accuracy in tight working spaces. In addition, for the first time in a skid-steer loader model in this size class, the S450 loader is supplied with a fully pressurised cab with air-conditioning as an option. Other key features include increased hydraulic performance and efficiency; a new tailgate design; integrated rear bumper and enhanced serviceability.

The new generation E17, E19 and E20 1-2 tonne excavator models from Bobcat provide an unmatched combination of class-leading breakout forces, working range, smoothness of workgroup functions, hydraulic output and fast cycle times, centred around a roomy and comfortable operator environment, durability and excellent service access. The new models are towable on trailers for up to 2000 kg, with transportability further enhanced by new tie-down points. An expandable undercarriage, automatic slew brake and advanced diagnostics and instrumentation are just some of the many standard features included on all three excavators.

Alongside the Bobcat compact loaders and excavators at Plantworx, the company will be focusing on the latest developments in the Bobcat range of telehandlers. These include the new 13 m and 14 m lift height



T35130S and T35140S telehandlers aimed particularly at the rental industry. The new T35105, T35105L and T36120SL 10-12 m middle lift telescopic handlers have replaced the previous five models from the T35100 to the T35120SL telescopic handlers and at the other end of the range, the new TL358 model is 6 m lift height compact telehandler, available with two rated capacities of 2.6 or 3 tonne.

### New Doosan Generators and Compressors

Among the new Doosan Portable Power products being featured for the first time at Plantworx are the Stage IIIA compliant G40-III A and G60-III A generators and the new Stage IIIA compliant 7/53, Stage IV compliant 12/154 and 12/254 and 7/125-10/110 Stage IIIB Dual Mode portable compressors.

Providing 40 kVA and 60 kVA prime power, respectively, the G40-III A and G60-III A models are part of the new platform of generators from Doosan and share a common design with the G80-III A to G200-III A models launched over the last two years. The Yanmar-powered G40-III A and John Deere-powered G60-III A generators are both available with electronic speed regulation (optional on the G60-III A model) providing, in addition to stability and better load take-over capabilities, a flexible dual frequency 50/60Hz working mode (optional for both models).



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The new 7/53 portable compressor is a 36 kW Stage IIIA compliant replacement for the 7/51 model and has been redesigned to allow Doosan to keep this model in the Stage IIIA category, avoiding the need to transition to meet Stage IIIB regulations. The new features on the 7/53 portable compressor include forklift slots and a new bunded base option.

The largest single axle model from Doosan, the new 12/154 compressor is the Stage IV successor to the previous 12/150 model and is again powered by the Cummins QSB6.7 6-cylinder diesel engine and meets Stage IV regulations without the need for a diesel particulate filter (DPF).

Also meeting Stage IV emission standards, the new 12/254 compressor is powered by the 247 kW Cummins QSL9 diesel engine meeting the regulations without the need for a DPF. The 12/254 model again offers both compact size and easy serviceability for added value performance. Several additional features such as multiple air outlets, a 110% bunded base, central drains and forklift slots have also been incorporated as standard in the 12/254 compressor.

### New 'Dual Mode' Feature Increases Flexibility

The 7/125-10/110 Stage IIIB model has a new 'Dual Mode' feature as standard, with a choice of two pressure and flow ratings on the same machine. By pushing a button on the keypad, the operator can switch between 'LO' (low pressure mode: rated pressure 6.9 bar/free air delivery 12 m<sup>3</sup>/min) and 'HI' (high pressure mode: rated pressure 10.3 bar/free air delivery 10.6 m<sup>3</sup>/min). This 'two-for-one' solution replaces the need to choose between different models as used to happen in the past and offers much greater operational flexibility from the same machine.

The new 7/125-10/110 portable compressor is powered by the Stage IIIB Cummins QSB 4.5 water-cooled diesel engine providing 97 kW of power and meeting emission regulations through the use of cooled exhaust gas recirculation (EGR) and diesel oxidation catalyst (DOC) after-treatment technologies, without the need for a DPF.

**Stand Nos: 10B2 & 11B2**



**PLANT WORX**  
2nd - 4th JUNE 2015  
STAND NO. 10B2 & 11B2



**PLANTWORX**  
2nd - 4th JUNE 2015  
STAND NO. SCZ2

## Two new innovations from MB: The MB-BF80.3 and MB-BF135.8 crushing buckets

**Worsley Plant, supplier of materials processing equipment to the construction, demolition, waste management, landscaping and recycling industries, is officially launching two new innovations from MB to the UK market at PLANTWORX 2015 this June.**

MB, the undisputed global leader in the production of earth movement and demolition equipment, has developed two new Crushing Buckets that compliment the existing range of MB products: the new model MB-BF80.3 and the MB-BF135.8 Crushing Buckets.

Suitable for excavators that exceed 18.5 tons of weight, the BF80.3 is compact, versatile and suitable for crushing and recycling inert materials resulting from demolition (road works - excavations - pipes - pipelines). In spite of its size and lower weight compared to larger models, it reaches productivity of 34 m<sup>3</sup> per hour.

Suitable for excavators weighing over 43 tons, the BF135.8 has been created to meet the specific needs of crushing in quarries, for recycling aggregates at landfill sites, and for the volume reduction of materials resulting from demolition on site, or excavation, sewage systems and preparation of aggregates. With a productivity of 75 m<sup>3</sup> / h, a capacity of about 1.60 m<sup>3</sup> and a total weight of 7.50 tons the crusher bucket BF 135.8 is versatile and handy.

The MB BF135.8 and BF80.3 crushing buckets are innovations in their fields in terms of the technology used and their ability to allow the owner to recycle his materials on site, saving time, money, manpower and the environment.



Both new products demonstrate the continuous commitment of MB to be innovative, creating more and more cutting-edge work tools which are adaptable for a wide range of uses; a feature all of its products. MB continues to invest in research and development, focusing on the specialization of unique, high quality products offering superior performance. In the past 10 years MB has dramatically changed the methods of crushing used in all types of construction, enabling new opportunities and providing solutions to all types of technical requirements and environmental regulations.

To find out more come along to our Stand at PLANTWORX SCZ2. Alternatively visit [www.worsleyplant.co.uk](http://www.worsleyplant.co.uk) or call us now on 01606 83 55 44.



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## The Herbst Agri Crusher offers the sensible solution in processing rubble & demolition material, into a viable end product

**This is the PTO Tractor Driven Jaw Crusher. Simplicity and versatility, this product is ideal for project work of any scale and can be utilised for a variety of applications. Running costs are minimised and the setup time is practically eliminated. With the Tractor Unit, the machine can be easily towed from site to site and positioned in any small, confined environment for operation.**

With an aggressive crushing unit, effective throughput of material is achieved, to a suitable size as required, proving its' value for construction, demolition, recycling and contracting businesses.

The crusher will reduce or eliminate completely, the need to transport material, as all is processed on site. Manpower is freed up, fuel costs reduced and overall project management is improved, all of which will secure significant return on investment.

The overall design and specific working features allows user friendly operations, with a product that will meet the demands of the harsh working environments it was built for.



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**PLANTWORX**  
2nd - 4th JUNE 2015  
STAND NO. SCZ22



## Innovative JCB models on show at Plantworx



**JCB will showcase models from its world-leading telescopic handler range, brand new series of compact excavators, ground-breaking site dumpers and award-winning hybrid generator line-up at Plantworx 2015.**

Two of JCB's new site dumpers models - which range in size from one to 10 tonnes - will be shown. The 6-tonne machine, designed for high carrying capacity in large earthmoving projects will be on static display while the 3-tonne version will be part of JCB's live demonstrations throughout the show.

Also showcased will be the G90QSi - part of JCB's groundbreaking, fuel-saving Intelli-Hybrid generator range which has won the Engineering category in the Plantworx 2015 Innovation Awards and was highly commended in the Green category. The sets bring reduced cost of ownership to JCB customers - by delivering a highly efficient solution to the ever-changing load requirements on off-grid sites.

The compact JCB Loadall 525-60 has a lift height of 6m and a load capacity of 2.5 tonnes. At just 1.84m wide and 1.89m tall, it boasts multi-mode, four-wheel steering - providing access to multi-storey car parks and operation in confined site conditions.

Powered by a 2.5-litre, JCB Diesel by Kohler four-cylinder engine, the 525-60 delivers 55kW (74hp) for easy lifting performance and rapid travel without the need for a diesel particulate filter or an SCR system to meet the Tier 4 Final emissions regulations.

The 67C-1 is a 6.5-tonne class, conventional tail-swing compact excavator, delivering durability, efficiency and productivity thanks to an innovative family design. Key features include a tier 4 final engine with no DPF, 30° tilting cab for excellent service access, 500 hour greasing interval, 100% steel bodywork for excellent durability and the JCB "2 Go System".

Alongside these models JCB will show models from its extensive machine range, including: brand new site dumpers, compact tracked loaders, compaction equipment, lighting towers, backhoe loaders and compact, tracked and wheeled excavators.

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# Wirtgen Limited showcases innovative solutions for road construction and rehabilitation at Plantworx



**PLANTWORX**  
 2nd - 4th JUNE 2015  
 STAND NO. 8C3

**Presenting eight machines, Wirtgen Limited, the Wirtgen Group's UK sales and service subsidiary will be showcasing innovative solutions for road construction and rehabilitation at the Plantworx trade show. Alongside the key exhibit, the W 50 Ri, which is Wirtgen's latest 50-cm milling machine, visitors can also view two "Dash 3" generation pavers from Vögele and five rollers from the compaction specialist, Hamm.**

The W 50 Ri is a member of Wirtgen's new small milling machine generation and will be unveiled to trade experts at the show. The entirely new and striking design incorporates a host of technical innovations that result in enhanced performance, greater productivity and maximum ease-of-operation. Wirtgen have developed a brand new in-house leveling system, LEVEL PRO PLUS, which is fully integrated in the machine control system, supports intuitive and simple operation to produce precise and high-quality milling results. The generous steering angle to either side and the automatic steering function of the rear right hand wheel when folded in results in an extremely small turning radius that make working on tight job sites so much easier. Furthermore, three individually variable milling drum speeds each ensure an ideal milling performance for a broad range of applications. The fact that using the W 50 Ri can speed up completion of a project by as much as 20% makes this cold milling machine a key factor for success in road rehabilitation.

**Vögele pavers and Hamm rollers also guarantee success on the job site.**

The new Vögele SUPER 800-3i tracked paver from the Mini Class is being unveiled at Plantworx as a first time UK exhibit. It is accompanied by the wheeled SUPER 1303-3i, already an established Compact Class market leader. This highly advanced paver features an extremely compact design and superb manoeuvrability. It has a basic width of 1.8 m and an overall length of just 4.95 m. This makes the Compact Class asphalt paver the ideal choice for tight job site conditions.

Our exhibits from the Hamm range of compaction equipment include the Hamm H 13i vibratory soil compactor, a true all-rounder for earthworks with an operating weight of 13t. This soil compactor stands out through extraordinary manoeuvrability, its ability to handle steep slope angles and ease of operation. Accompanying this machine is the 9-t HD+ 90i VV tandem roller. This machine compacts economically, quickly creates surfaces with the utmost surface accuracy and allows clean edge processing. The operator has an extra-large cab that enables him to concentrate on the work at hand for longer periods.

With its HD Compact Line, Hamm is the world leader in the market for compact tandem rollers. Three of the models of this range in the weight class up to 4.5t, the Hamm HD8VV (80cm), HD12VV (120cm) and HD13VV (130cm) complete our exhibits at Plantworx.

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STAND NO. 15C2

## Garic unveils equipment and service innovations at Plantworx 2015

**Garic, the UK's largest welfare van provider, will be unveiling a host of new developments at Plantworx 2nd - 4th June 2015.**

One of the biggest exhibitors at the construction equipment event, Garic's 36 x 24m stand has been divided into four sections to showcase the company's core products and services:

- Welfare and accommodation units
- Environmental protection products
- Wheel washing equipment, dust suppression solutions and Modulink buildings
- And the Garic Connect site equipment sourcing service

In pride of place will be two brand new products and a new service. Garic has once again taken technology to the next level and will be exhibiting for the first time, the most eco-friendly welfare unit on the market.

Its second new product to be launched at the show is a highly innovative and effective dust suppression unit. The V12 dust suppression cannon's revolutionary hydro-technology creates an ultrafine mist which clings to dust particles. Capable of spraying water at 130 mph the cannon has been designed to eradicate airborne particle emissions at demolition and construction sites, quarries, landfill and coal mines more quickly and thoroughly than equipment currently available.

Thirdly Garic will be unveiling its latest service innovation, Garic Connect. Designed to simplify large site set up and management, the company's highly experienced hire division can now source absolutely any product - from a spade to a tractor - needed to complete a project. The service streamlines purchasing, delivery and servicing.

Also new to Plantworx is Garic's Modulink range of modular buildings. Already proving to be highly effective, the stackable units can be configured to suit a huge variety of applications



including temporary offices, classrooms and housing development marketing suites. Modulink is available as a single bay or can be linked to form large multi-unit complexes.

### Other equipment on display will be:

- Mobile and static welfare units, including welfare vans
- Solar powered showers and showers
- Drip trays, drum stores, settlement tanks, COSHH stores, static and mobile fuel and water storage
- Boot washes and wheel-wash systems

Commenting on the exhibition, Garic director Neil Richardson said: "We are really looking forward to exhibiting at Plantworx; it's the pinnacle of what has been a very exciting 18 months for us. The whole company has worked extremely hard to get our new products ready and we can't wait to see what visitors to the show think.

"We are exhibiting some of the most ambitious product developments Garic has ever manufactured."

# **Blademaster: A driving force in wear parts for earthmoving, mining, quarrying and recycling sectors looks to expand BladeMaster in both domestic and export markets**

**Con Mech Engineers have over 65 years of success in ground engaging tool production. Part of the Con Mech Group of companies, Con Mech Engineers is a family business with a £12m turnover. Con Mech promotes its very own range of wear part replacement edges to the domestic and world markets under its unique brand BLADEMASTER.**

Started in Woking in Surrey 65 years ago, and moving to the North East during the Eighties, Con Mech Engineers has gone from strength to strength across its different divisions. The business is made up of three distinct operations, ground engagement tools, sub-contract heat treatment services and precision engineering. Now housing ten heat treatment furnaces, surveyed to the American Petroleum Institute API 6A standard, the flexible approach and bespoke attitude mean that Con Mech can deliver a tailored product to match client's exact specifications be that for OEM new build or aftermarket applications. The heat treated boron Blademaster product is their trademark product, and the range consists of over 14000 core parts that are available worldwide. Everything in the range is available in standard, heavy-duty and very heavy-duty versions to match the demands of the working environment.



Christine Ames, Managing Director and David Waine, Global Business Development Manager

We spoke at length with Christine Ames, Managing Director and David Waine, Global Business Development Manager. David started by outlining " We worked with reputable Western European steel mills to develop an alloy steel chemistry which is tightly controlled during the production process. We buy hot rolled special profiles with the bevel or arrow head pre-rolled or buy plate which we profile and bevel as required. We fully process all of the material whilst it is still "soft" before heat treating to achieve the desired properties. This gives us a distinct advantage over our competitors. When



using pre-hardened wear plate it is a documented fact that induced heat due to gas cutting will result in a reduced hardness close to the cutting edge. This "soft zone" extends from the cutting edge a short distance in to the plate and can have an adverse effect on the service life of the component.



**blade**



As our wear resistant products are heat treated after processing this phenomenon is not present in our product and the customer benefits from a fully through hardened, quenched structure throughout the full thickness in the finished product. This maximises the properties required for optimum performance. With our new Extreme range, we can now also offer our clients a more bespoke product. If a client wants a different thickness to the OEM product then we can provide that, the fit-up is the same. Our bespoke service gives the customer what they require a part with more available wear material.

Talking with Christine, she was passionate about the new Extreme product range "At Plantworx, we will be launching the new Extreme range, which will include the Extreme Heavy-Duty, the Extreme Very Heavy-Duty, the Extreme Sub-Zero, and the Extreme Extra-Tough product lines. We are keen to offer with this a bespoke thickness on the final product to the specific requirements of each of our clients. The new sub-zero range is designed to operate in temperatures down to -50 degrees centigrade. The Extreme Tough product is designed for thicker wear edges above 50mm and exhibits higher strength and crack resistance to withstand high stress. Also, our bespoke service is extremely important to us and we are always looking for ways to improve this for our customers and always endeavour to provide parts for anything that they ask for.

Recent capital investment means that we can deal with product thickness currently in excess of 100mm, and we have recently installed a new plasma cutting machine, a 3m VMC, two new saws, a new profiling facility, and a bespoke small batch furnace. We also 'hot-cup' our end bits, whereas a lot of companies sell them as a casting, so we see that as a real strength as it will last much longer. We are also developing other complimentary products as part of our sub-zero range. As product gets bigger our future investment plans will include a walk through furnace, more quenching facilities and a 400 tonne vertical press, allowing us to expand production in this area. We are always looking to bring something to market that is different and that will ultimately last longer."

This professional and totally in-house wear parts production process means that the end product is very well respected within the industry and is a true alternative to more well known wear plate solutions. For more information please visit [www.conmecheng.com](http://www.conmecheng.com) or call us on +44 (0)1207 230621, or Visit us at Plantworx, stand 5 E3

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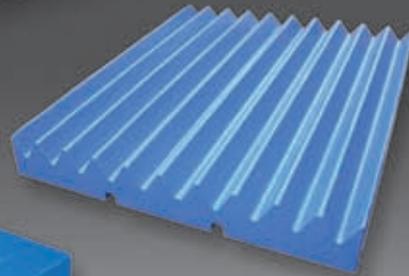
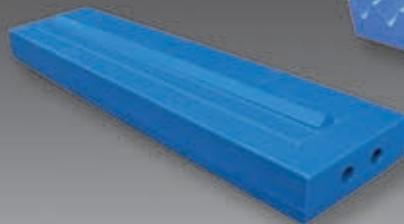


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# Engineered crushed sand to replace natural sand in concrete production

**The availability of natural sand for concrete production is facing challenges, while the so-called waste stockpiles at aggregate crushing areas are causing problems for producers. This means that the industry has a huge need to solve this challenge by finding suitable technology for usable crushed sand production.**

Issues related to aggregates prices, sales and technical issues of the production are usually among the topics of concern to coarse aggregate quarry managers. Another issue is the mass balance of production because, as part of a normal production process of crushed aggregates, up to 30 percent (rock dependant) of the material acquired from the bedrock is reduced to sizes smaller than 4 mm and thus cannot be used as coarse aggregates.

This co-generated material has long been the most unfavorable fraction in terms of assuring a profitable mass balance, since it can be hard to sell or even to get rid of at any price. As a result, in many places there are huge stockpiles of this "waste" that not only affects the profitability of the aggregate operation, but also causes environmental issues.

On the other hand, in the past few decades, the availability of suitable natural sand for concrete production near the point of consumption has been exhausted around many populated regions in the world. This has led to a search for a new replacement material; the aforementioned surplus fines from crushing operations are expected to be the next best alternative - due to both great availability and suitable physical properties.

## Well-known differences between natural sand and surplus quarry fines

Early attempts to use this co-generated material as fine aggregate were mainly unsuccessful. However, today the important differences between natural sand and surplus quarry fines are well known by aggregate producers, and there are examples of the producer successfully overcoming the challenges after working in close cooperation with Metso.

With respect to particle shape, this includes optimizing the crushing process along with vertical shaft impact (VSI)

crusher, rock-on-rock shaping at the end. This can result in a particle shape that closely resembles that of natural sand.

The issue of the high fines content can be resolved with either wet or dry processing, i.e. different washing techniques or air classification. Finally, if the sand particles are sieved and classified into reasonably narrow particle sizes of a good shape, they can be successfully used as high-quality manufactured sand already today.

**"In many places the availability of suitable natural sand for concrete has been exhausted"**

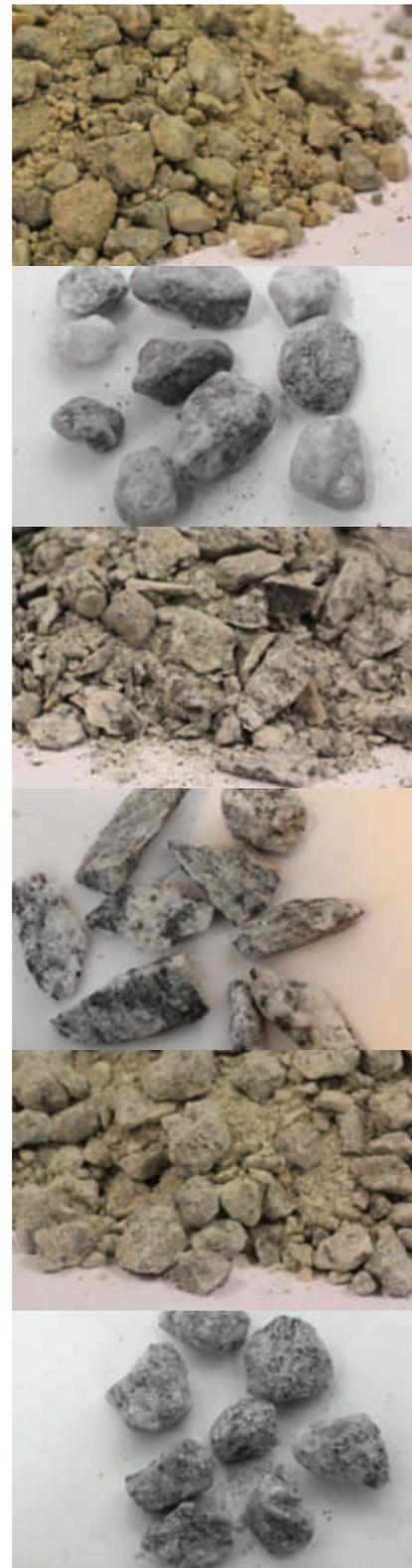
## The challenging task of crushed sand

Developing new approaches in the field of crushed sand production and then increasing its markets share is not a simple task, one of the reasons being that it involves many parties. This can be described as a sort of "chain", starting with rock blasting in a hard rock quarry, advancing to rock crushing and screening, then continuing to a ready-mix producer, and finally ending up at the construction site, where the crushed sand concrete is to be evaluated by the end user, i.e. the contractor.

In order to bring all the involved parties together to solve the challenges, COIN, Concrete Innovation Centre ([www.coinweb.no](http://www.coinweb.no)), was founded in 2006. Since 2009, Metso has been an active and key participant in the COIN project "High-quality manufactured sand for concrete". This focus area has served as a source of funding and a hub for facilitating the crucial networking between professionals from the different industries involved and universities and research institutions. The purpose has been to create a better crushed sand solution for the future.

## A new trend in crushed sand production

There are two scenarios for a new approach to crushed sand production.



Different types of fine aggregates: (1) High-quality, 0/8 mm natural glaciofluvial sand from Norway; (2) Low-quality, 0/8 mm co-generated material of coarse crushed aggregate production (should not be called crushed or manufactured sand); (3) High-quality, 0/8 mm crushed sand, produced using an optimized crushing circuit and VSI shaping.

One includes choosing the best available geological resources and then trying to copy "mother nature" by putting extreme effort into shaping of the aggregates and the design of grading curves.

Another approach involves finding ways to make crushed sand perform as well or better than natural sand by utilizing

**"There are two scenarios for a new approach to crushed sand production."**

its intrinsic properties. This also includes developing a new concrete mix design philosophy that is adapted to crushed sands with specially engineered properties that are different from those of natural sands. The latter is what has been chosen as the philosophy of the new approach of crushed sand production currently under development within the COIN project.

It is also worth mentioning here that crushed fine aggregates normally outperform natural sand when the most essential hardened concrete properties, such as compressive and tensile strength, are compared. At the same time, the problems of achieving economical mixes with suitable workability (fresh state properties of concrete) are normally reported as the main problem that can render the use of crushed sand non-favorable in many cases.

### Recent findings on the performance of crushed sand

The current trend in the concrete construction industry is an attempt to increase the market share of self-compacting concrete. This is a special type of very flowable concrete that was developed two decades ago in Japan and is special due to its ability to compact and level itself into a mold without any external vibration.

In the previous work carried out by the author within the COIN project, it was recognized that crushed sand with its naturally high fines content is perfectly suited for this type of concrete. This is because of the high flowability and the fact that self-compacting concrete needs a much higher content of very fine particles ( $\leq 0.125$  mm or 120 mesh) to assure good cohesion between the water and particles in the mix to avoid segregation and also to prevent interlocking of the coarse aggregate grains.

Research carried out elsewhere has also proved that increased fine particle content can in many cases be desirable compared to natural sand concrete. This

is because a high fines content in natural sand usually indicates increased silt, clay or shale concentration, which is detrimental to both fresh and hardened concrete properties.

In crushed sand, the presence of these contaminants is rare (at least in Scandinavia) and some level of fines would normally increase the content of filler-modified cement paste, thus helping with lubrication between the coarser aggregates particles ( $\geq 0.125$  mm or 120 mesh). When the optimum level of fines content is exceeded, they start reducing the flowability of the cement paste itself and thus the effect of lubrication with respect to coarse particles can then be overruled.

Further trials within the COIN project also proved that the type of the fines mattered as well. This means that not only is the total percentage of fine particles below the sieves 0.250 (60 mesh), 0.125 (120 mesh) or 0.063 (230 mesh) mm important, as normally interpreted in the past, but so are the characteristics they possess; these characteristics can vary widely for different crushed fine aggregates. The most important properties of the fines are believed to be their particle size distribution (specific surface), mineralogical composition, particle shape and surface texture.

For example, if the grading of two crushed fines ( $\leq 0.125$  mm) coming from the same deposit is altered by classification (washing, in this case) and

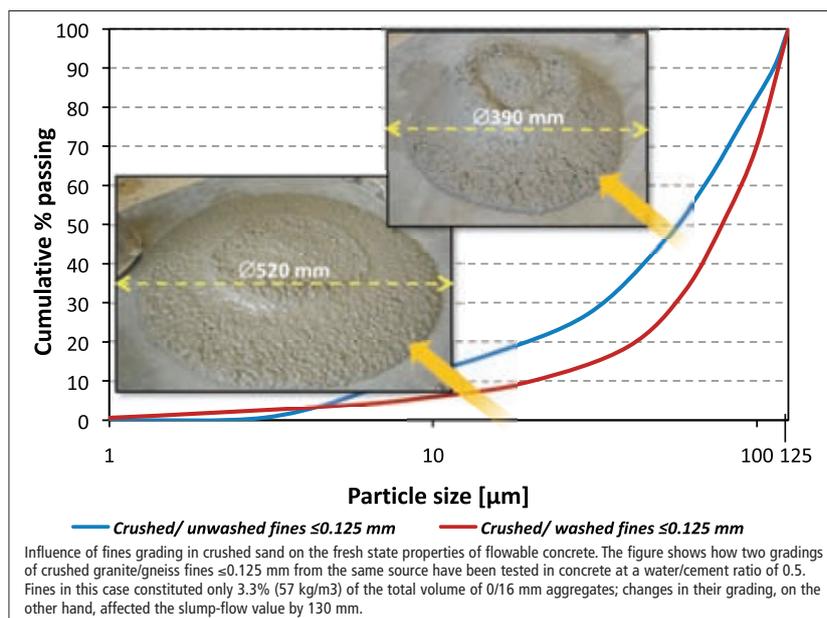
available for the lubrication of the cement paste itself. The recent findings have also indicated that varying the properties (flakiness) of coarser crushed sand fractions (0.125/2 mm and 2/4 mm) has much less relative impact on fresh concrete properties, and that the other fine particle ( $\leq 0.125$  mm) characteristics, such as shape, surface texture and mineralogy, could have a similar effect as grading (specific surface).

**"Trials within the COIN project proved that the type of the fines also mattered."**

### Further improvement in concrete properties

The current state-of-the-art for crushed sand production is VSI shaping and wet or dry classification to reduce the total fines content. However, it is our belief - and our findings indicate - that further important improvement in concrete properties can be achieved if the properties of the very fine part of the crushed sand ( $\leq 0.125$  mm) are modified (engineered).

Two tasks then have to be solved, in order to see if our hypothesis is valid



this is the only variable between two concrete mixes (i.e. the total fines content is kept constant), this can have a tremendous effect on the concrete slump-flow value (see above).

From a concrete technology point of view, those findings can be explained by the adsorption of the free water on a larger total surface area of a finer grading, thus leaving less water

also when applied to industrial scale production. The first task includes the concrete technology side, which would require a complete understanding of how and which fine particle properties affect fresh concrete properties. The second task involves finding an industrial solution that would render a controlled modification and optimization of the filler part properties possible also at aggregates quarries.

Otherwise, our findings would be only of scientific importance with limited practical relevance. What seemed to be a difficult task at the beginning turned out to be possible with the equipment readily offered by Metso. This is because if the fine ( $\leq 0.125$  mm) part of the crushed sand is separated into different fractions by Metso's static air-classifiers and stored into silos, we just need to find the best way of combining them afterwards.

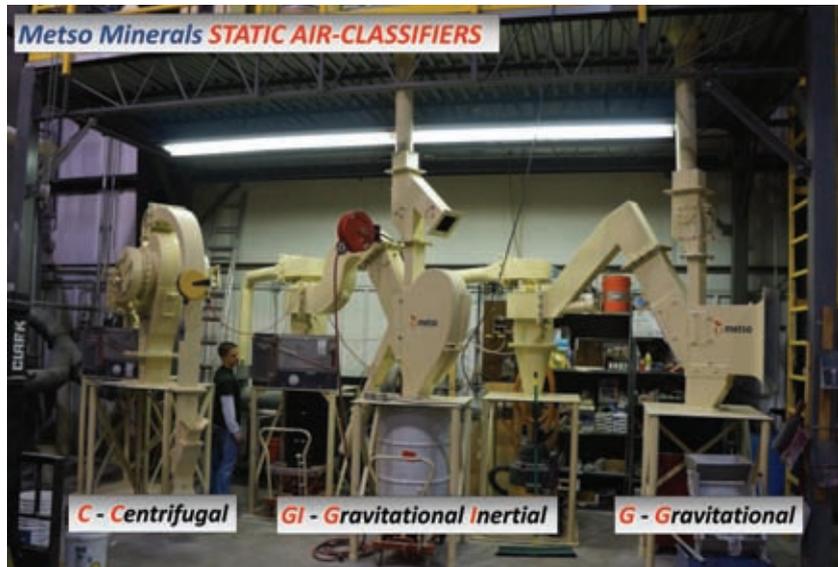
Moreover, two-stage dry air-classification is a concept that is already used today, providing in total four dry filler fractions to be mixed back either before or during the concrete production. The static air-classifiers are perfectly suited for aggregate operations, since they do not have any moving parts; the inside of their chambers is lined with ceramic lining, assuring very low wear costs even with highly abrasive feeds.

At the same time, they can be designed to accommodate the throughput necessary for most aggregate operations. In addition, they do not have the problems usually associated with the wet classification process (washing), i.e. space and environmental issues from de-watering ponds and operation problems in places where negative temperatures are reached in the winter time.

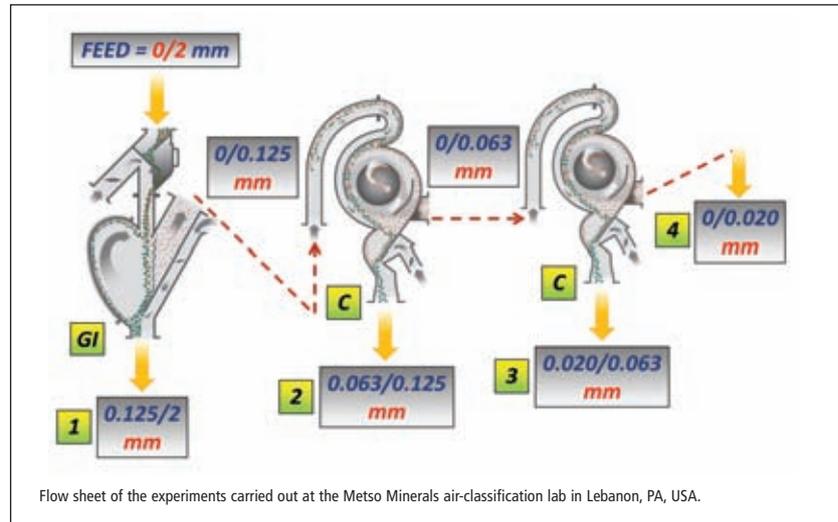
### Metso's role in developing a future sand solution

In order to proceed with the experiments to further elaborate the proposed hypo-thesis, great effort and care were taken in the preparation of a set of model materials (crushed fillers) that represent the complete range of local geological variety in Scandinavia. This involved collecting 4/22 mm crushed rock samples from 10 different quarries. Further processing included another step of Barmac VSI crushing to generate fines and screening of 0/4 mm crushed sand. Special care was taken to ensure that all the fines were generated only in this strictly controlled way.

**” There are aggregate operations that have two Metso static air-classifiers connected in a row to produce multiple different fine filler fractions.”**



Lab Technician & Field Service Engineer John Gettle operating dry classifiers at the Metso Minerals air-classification lab in Lebanon, PA, USA.



Flow sheet of the experiments carried out at the Metso Minerals air-classification lab in Lebanon, PA, USA.

Previous research findings within the COIN project and elsewhere had proved that the geometrical properties (such as shape) of the fine particles  $\leq 0.125$  mm can be affected by the crushing procedures applied. For example, an increase in VSI tip speed demonstrated an improvement in the properties of particles all the way down to and including the filler ( $\leq 0.125$  mm or 120 mesh) sizes; moreover, those improvements proved the introduction of measurable changes in the fresh concrete properties.

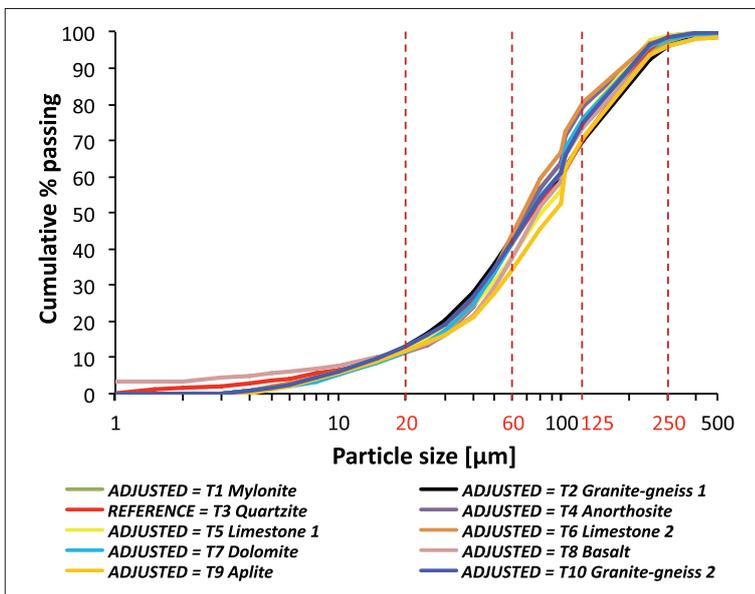
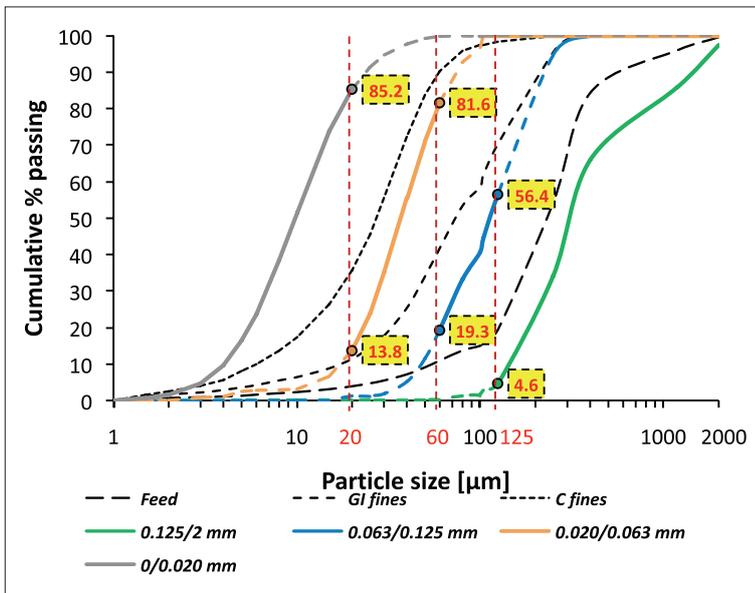
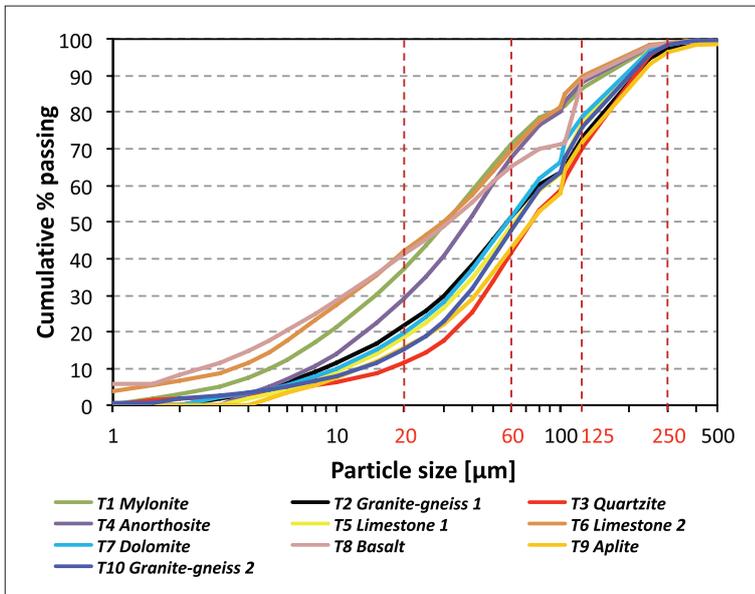
After VSI crushing, the 0/4 mm crushed sand material was further split in two fractions - 2/4 mm and 0/2 mm. Almost 9 tons of the 0/2 mm fractions were then sent to Metso's air-classification laboratory in Lebanon, Pennsylvania, USA, for controlled removal of filler and alteration of filler grading. This means that as much material below 0.125 mm as possible was removed and further split into fractions 0.063/0.125, 0.020/0.063 and 0/0.020 mm.

Industrially, this could be achieved by connecting a gravitational-inertial (GI) air-classifier in a row with two

centrifugal (C) classifiers. This is illustrated in the flow chart to the right. As mentioned, already today there are aggregate operations that have two Metso static air-classifiers (GI and C) connected in a row to produce multiple different fine filler fractions.

The air-classification experiments with the 10 different materials are now finished. The results demonstrated that the classification process of the equipment can be successfully adapted to a narrow desired result by adjusting the classification process parameters, i.e. the air-flow, which is regulated by the main air inlet valve and adjusted by the secondary air inlet valve (primary and secondary air ratio).

The success of the experiments can be illustrated (see next page) by the initial gradings of filler from all 10 crushed sands after the first stage of classification, an example of classification results (when the filler part is distributed into separate fractions), and the possibilities of recombining those fractions if one of the initial gradings is chosen as the reference.



Possibilities of recombining the achieved fractions if one of the initial gradings (quartzite) is chosen as the reference curve; a very wide range of other curves can also be achieved with the same accuracy. The apparent "bump" of the curves at 100 µm is an artefact of the PSD measurement method used.

The acquired filler fractions have now been delivered to the Norwegian University of Science and Technology where work within the COIN project will continue with the further elaboration of the knowledge on how the different filler characteristics affect the properties of fresh concrete.

## Crushed sand application on the aggregates market

So why look for new and even more sophisticated solutions when "good enough" technology for manufactured sand is already available? The answer is simple. With the exception of natural sand, in some cases, the aggregate prices in many places do not even keep up with inflation.

**"Many challenges can be resolved with equipment that Metso already offers."**

There are two reasons for the sometimes high price for natural sand compared to crushed aggregate: First, a good quality sand can have a huge impact on the cement consumption (the highest share of concrete self-price) needed to produce concrete with desired properties; second, the availability of good natural resources is almost exhausted in many parts of the world. This turns the spotlight on the two possible approaches in the crushed aggregate business (which can, in fact, be applied to any industry).

The first approach is perhaps the most common: producing coarse aggregates that are virtually the same as that of other suppliers and trying to compete on the market with price. This usually involves having only a marginal profit from every sold ton and an unavoidable need to produce and sell huge volumes in order to render the operation profitable. This has been difficult for many huge aggregate quarries - especially after the last financial crisis, and, as a result, a lot of the so-called "mammoth" quarries, taking the first approach in their operations have turned out to have overcapacities. Increasing the price when everyone else also has an overcapacity and is selling virtually the same product is, of course, a difficult task.



Metso's Dual AC22.5GI static air-classifier units at Luck Stone's Goose Creek plant, operating at maximum throughput of up to 100 tph.

**"It is possible to produce high-quality manufactured sand that is accepted by the industry."**

The second approach would be selling high added-value (profit part of the price) crushed aggregate products at volumes that today's market can readily consume.

The basic commercial idea under future solutions for crushed sand from the aggregate producer's point of view lies in developing a technology to have a different kind of aggregate production approach. This involves not only trying to compete with price, but actually producing a high added-value product that can even be brand named on the market to emphasize that it is unique; this has not been typical for natural sand or aggregates in general.

This interesting trend has recently been gaining ground. The producers who have invested into considerably improving the quality of their crushed sand want to emphasize that it is different from the material that is co-generated in the coarse aggregate production process. To the author's knowledge, currently there are two brand-named crushed sands: the Advanta® engineered concrete sand produced by Luck Stone (www.luckstone.com) in Virginia, United States, and the RoboSand™ produced by Robo Silicon (www.robo.co.in) in India. In fact, Metso's static air-classification solutions are being used in the production of Advanta® crushed sand.



Ceramic linings and vanes inside one of the G1 classifier units to the left; after 8 years of operation, the wear of the linings is still negligible.

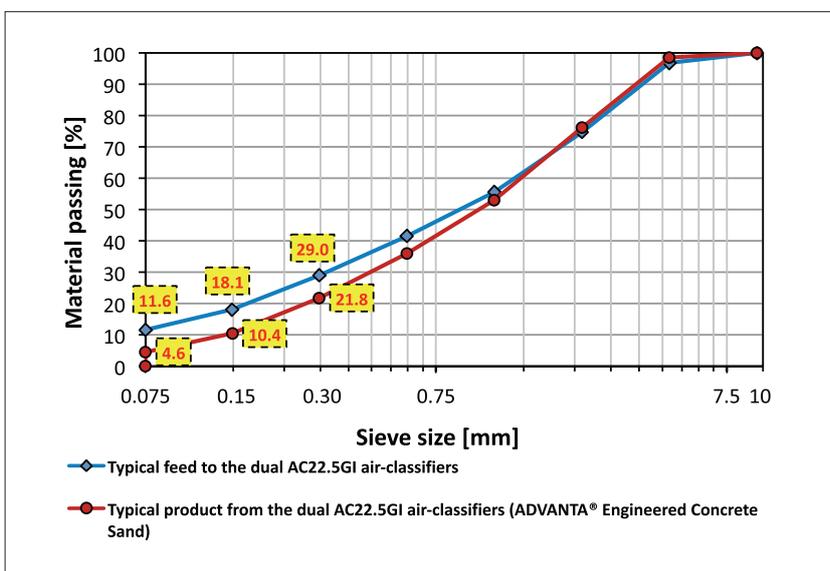
## Choosing the best sand production process

Proving that high-quality crushed sand is worth a higher price (even if true!) is not a simple and easy task. There are a couple of reasons for this: the aforementioned first historical unsuccessful attempts of using co-generated crushed fine material in concrete, and the fact that legislative requirements in many parts of the world can be discriminating towards the use of crushed sand if it has been tailor-made for special performance in concrete and not a replica of "ideal" natural sand.

Still, every coarse aggregate production company has a wide range of choices of what to do with their surplus fines -

dump in huge stock piles, try to get rid of it at a very low or no price, or try to turn it into business through the different available options of crushed sand production.

The best choice in each case depends on the local market situation and on how much effort in the long run the producer is willing to put forward in developing its product, not only on the technical side, but also actively working with technical support, sales and promotion. In other words, crushed sand cannot be sold in the same way as crushed coarse aggregate, i.e. by sending a price offer and description of properties to a potential customer. In the author's perception, crushed sand needs a much more technical kind of marketing and sales in order to make it a success story.



Typical feed to and product from the dual AC22.5G1 air-classifiers at Luck Stone's Goose Creek plant.



Rolands Cepuritis, the author of this article, is currently an industrial PhD student at Norwegian University of Science and Technology and employed by the sole Norwegian cement producer Norcem (HeidelbergCement Group). Before pursuing a PhD degree, he was involved in both ready-mix concrete and aggregate production for more than five years.

Rolands Cepuritis visiting the Luck Stone Leesburg plant in VA, USA, where two parallel Metso AC22.5 G1 air-classifiers are used to produce high-quality crushed sand, brand named Advanta® engineered concrete sand (see the small inset image in the upper right corner).

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# Striker machines - Built to last

**What happens to a Striker machine at the end of its working life? Well the short answer is we don't know, and don't think we are going to find out any time soon. In 2002 Striker's first track machine was designed and built, an 1110 track impactor for a quarry contractor in Western Australia's mid west. The machine has since gone on to do over 40,000 hours operating in some of Australia's harshest conditions. This is not the only machine that has clocked up thousands of hours in Australia, one of Strikers mining customers has a JM1310 track jaw crusher that has been working in WA's remote Iron Ore mine sites and has just completed 55,000 hours of service, this is just a couple of the many examples of how Striker machines are yet to have a use by date. Our moto BUILT TO LAST is not taken lightly at Striker, and we ensure that we continue to design and build every machine with our moto in mind.**

As the sayings go, if you want to be dazzled by marketing you talk to an American. If you want to talk finance, you go and see an Englishman. If you want a tall building you can talk to a Malaysian and if you need manufacturing you go and see the Chinese. And so it follows inarguably that if you want to discuss mining you talk to an Australian.

The Australian 'brand' in mining is recognised worldwide as a benchmark to mining methodology, equipment selection and operational expertise. Australia's vast landscape and often hostile environment coupled with high input costs has weeded out all but the most robust, cost effective and production efficient mining solutions. And this is precisely how Striker Australia emerged from the Australian landscape onto the world stage.

Versatility is the key, no two mines or quarries are the same. Neither are their plans, regulations, lifecycles, ore body distribution, topography, commodity prices or budgets. How then do you develop a market for a standard range of machines that suits such divergent conditions and countries?

Answer: You don't. Your range of machines and ideas must be as diverse and adaptable as the countries and clients you have. This is where Strikers team has channelled their energy and ensured that each model of machine can be adapted to the clients exacting requirements.

Striker have now successfully built more than 1000 machines for unique projects all around the world. Standing behind our moto 'Built to Last', not knowing what happens to a Striker Machine after its life span is something Striker is proud of, and one of the reasons behind why Striker is now offering the new 5 year structural warranty.

Having spent all his working life in the crushing and screening industry in Australia and Asia, Craig Pedley Strikers founder says " I feel Striker is very different to our European counterparts. Our Australian way is much more consultative. I see my colleagues working side-by-side with our clients and I hear them representing our clients, always seeking to add value and offer the most cost effective solution, and always ensuring every machine is built to last. I am extremely proud of what we have achieved. We've kept our feet on the ground despite our rapid growth and I am still really excited about future."



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## A most efficient production line at Terex|Finlay

**The HUB team recently had the pleasure of visiting the Terex Finlay factory to see the production lines in operation.**

**Based in Omagh, Northern Ireland the factory is extensive and covers 10 acres. The Omagh site currently employs in excess of 500 personnel. The factory covers machine shop operations, welding and fabrication, painting and assembly operations for the Terex|Finlay range of mobile crushing machines. A second even larger site at Dungannon employs a further 600 who are**

**involved in the production of screens and other Terex products.**

Terex|Finlay has been manufacturing a comprehensive range of tracked mobile crushing, screening and recycling equipment for over 50 years. They are global pioneers in tracked mobile solutions and offer a comprehensive range of equipment to the quarrying, mining, construction, demolition and recycling industries. Their ranges of innovative machines are manufactured to provide efficient production, low operational costs and ease of maintenance. >



**Terex|Finlay has been manufacturing a comprehensive range of tracked mobile crushing, screening and recycling equipment for over 50 years.**

## The production process

The whole production process within the Omagh factory features meeting sections where all the relevant personnel for that section meet at a prescribed time to discuss material and components and whether they are in a position to progress the build to the next section. It's essentially a short 'stand-up' meeting and all the team can check and discuss the present position of materials and components and any issues through their section. The whole section is essentially a 'three sided' office with magnetic walls which allows all the documents and charts to be easily viewed on the walls.

This structure is repeated throughout all stages in the manufacturing process. It's a total 'hands on' approach with a team leader driving the section and it's quite clear to see and understand the benefits of this as it quickly highlights any issues that arise as each member of the team takes specific ownership; issues can then be dealt with effectively and quickly avoiding any disruption to the overall manufacture of machines.

Health and Safety is high on the agenda in the factory and looking at the notice boards in this section it is impressive to see what can be achieved when it is applied in a professional and competent manner.

## Critical inspection

Although machine chassis are currently bought in from local suppliers; this is essentially a working partnership. All chassis and parts go through a critical inspection on arrival to ensure all everything is 100% correct and adheres to all specified critical dimensions. Regular meetings are also held with all the local suppliers to ensure continuity and discuss whether improvements can be made.

Fabrication is an important element of the build and there is currently a high degree of emphasis on weld quality. The company has recently become a member of the Welding Institute with 25 personnel recently put through a course of welding training which has enabled them to achieve a recognised standard in fillet welding. All aspects of welding are discussed with the project teams to ensure what type of weld (single weld, triple pass) is needed in each specific element of the build.

The assembly process also includes parts blasting which is completed before the welding process, with the component blasted a second time after the weld, before the paint finish is added. In terms of quality this is a big focus for the team.

## Prototype development / New Product Launch

Moving into another production shed we were introduced to the new C-1545 cone crusher which is about to launch into full production. It was plain to see that there is a big emphasis on new products and ensure everyone is involved at a very early stage. Here we saw a team board to deal with any issues on the pre-production machine to ensure that everything is covered before the new crusher goes into production. Each stage of the build is carefully examined and checked to ensure that all snags are dealt with before the machine moves on to the next stage. Team meetings are held every morning to discuss the stage of build which ensures all the team know exactly where they are with the assembly. It's a tried and tested formula that ensures that when the prototype has reached the end of its build it will be ready for mass production.

## Component longevity

The production teams also focus on cleanliness and component contamination and all machines must adhere to a quality check of NAS 6 at the end of the line. This is an ISO standard which aids component longevity which ensures less chance of failure when the machine is operational. A lot of investment has also been made in torqueing and marking pipes with a lot of money being spent on the correct tools and failsafe procedures implemented throughout to ensure correct tightness at all joints.

## Safety throughout

Throughout each stage of production slings and shackles play a big part. These key tools are all assessed on a monthly basis to ensure with a colour coding sequence identifying which month it was checked with everything being logged and checked to ensure all lifting equipment is safe. This is done by an outside contractor who performs regular risk assessment on these key tools, how they are used and how they will be used on any new products that enter the production line.

## The complete process

It was obvious that the Terex Finlay production is a well thought out process which covers every aspect of the build, from prototype to production line. Nothing is missed as every stage is discussed with any issue resolved before it moves on to the next stage. The final checking of a finished machine is extensive and nothing is left to chance with every element of the machine checked before it leaves the factory giving the end user the confidence of a Terex Finlay product.

A very impressive visit for the HUB team...



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The most compact unit in the world leading series of Sandvik mobile jaw crushers, the QJ241 features

the high performing powerful 1000 x 650 mm jaw with hydraulic CSS setting, reversible jaw for relieving blockages and automatic central lubrication system for reducing maintenance time.

One of the most advanced benefits to the customer is the addition of a raise and lower facility on the main conveyor. The conveyor can be raised and lowered for transport and will give increased clearance on the main conveyor for removal of rebar which will make it the ideal choice for recycling applications. It is also extended to give an increased discharge height enabling enhanced stockpiling capabilities.

Although purpose designed for the recycling industry, the QJ241 is equally productive in quarrying applications.

Reliable and robust, the QJ241 is powered by an emissions compliant 168 kW / 225 hp CAT engine to enhance fuel economy for lower cost of ownership and to reduce emissions by upto 45% for a lower carbon footprint.



Featuring many user-friendly features for enhanced performance and ease of operation, the QJ241 comes complete with a full PLC control system with colour screen for visual data output and access around both sides of the powerpack for easy maintenance and service. The diesel tank and hydraulic tank have inspection covers and are located to the front platform of the machine for improved access and the pipe work is fabricated from steel to give a maintenance-free sealing solution and better heat dissipation.

#### Customers will also benefit from the following features:

- A highly efficient hydraulic control system which allows ease of access and maintenance as all controls are located at ground level
- Improved load control system for the feeder drive to ensure continuous, uninterrupted crushing
- Speed wheel fitted to the main conveyor to stop the feeder avoiding the need to dig out a heavily loaded conveyor
- Hydraulically driven cooling fan with auto reverse to back flush dust from the radiator
- Capable of operating in the most hostile environments with a 50°C ambient temperature without any oil changes
- Heavy duty tracked chassis driven by remote control and hydraulically folding hopper enable quick-set up times.
- Steel pipe work, for a maintenance free sealing solution and better heat dissipation

All these features are aimed at ensuring the QJ241 is as user and environmentally focused as it is productive, efficient and versatile.



# PRECIA MOLEN innovation optimises aggregate process for LAFARGE

**LAFARGE Group's latest investment at Signes Quarry in France demonstrates the company's strong commitment to an innovative strategy of plant automation and includes a fully automated loading and weighing system designed to meet the diverse needs of the quarry.**

From the outset of this high profile project LAFARGE appointed their build partners with care commissioning leading weighing specialist PRECIA MOLEN to design and install a fully automated loading and weighing system including interfacing with LAFARGE Group's Quartz back office business system.

### **A unique site within the Lafarge Group**

Situated south east of the Sainte Baume mountains, 47km from Marseille, Signes Quarry occupies a total area of 73 hectares, of which 33 hectares are exclusively dedicated to the extraction of limestone deposit which is processed to produce sand for either concrete batching plants or road products.

Prior to the installation of the new loading system the trucks were loaded manually using loading shovels and were required to return to the out weighbridge to collect their documentation, however, at peak times this created traffic congestion resulting in long queues and reduced truck throughput.



### **Key Criteria**

The new weighing and driver self-loading system had to meet four key criteria for LAFARGE:-

- Minimal staffing levels for vehicle control, weighing and loading operations.
- Full integration with the LAFARGE Quartz business system.
- A robust and resilient system designed to ensure 24/7 operation.
- Replace the normal out-loading procedures using a loading shovel.



## **A continuous automatic weighing/loading station**

Drivers arrive at the incoming weighbridge PRECIA MOLEN BI400 driver console and via a dialogue display they are asked to present their RFID card. The system validates whether the vehicle is an authorized user of the site, confirms the product to be loaded, directs the driver to one of the seven loading points and calculates the correct net weight to load from measured tare and authorised maximum gross weight (PTAC).

When the truck arrives at the self-loading driver console the driver is prompted to present the RFID card to confirm that the truck is at the correct loading point.

Once loading commences real time integration is initiated between the PRECIA MOLEN BT conveyor scale and the plant PLC control to ensure safety interlocks are observed. The truck must drive slowly forward as the target weight is reached as indicated on the remote weight display.

Once the loading cycle is complete and the truck has reached the target net weight final documentation is printed and the driver is directed to exit the site without the need to return to the exit weighbridge.

## **An original solution designed for bulk management**

The installation of the BT weighing conveyors within the site has provided significant benefits for LAFARGE as the loading stations represent a substantial saving on labour costs eliminating the need for seven weighbridges in excess of 24m in length.

The BT weighing conveyor comprises a fully weighed conveyor connected to the chassis by two articulations placed along the centre line supported at the opposite end by one or two load cells. These instruments are for accuracy class 0.5 +/- 0.25% commercial use and perform the same bulk management functions as a weighbridge or hopper scale. The BT is available with a 400mm wide belt, 1200mm in length up to a 1800mm wide belt, 5000mm in length and with a flow range up to 1,000tph.

## **Huge time savings and improved productivity**

By using the automatic system the whole cycle is completed in only 10 minutes compared to more than 40 minutes with manual loading. Since commissioning, nearly 90% of drivers now choose this mode of loading which reduces time on-site and improves productivity.

Another important benefit in terms of quality of service is that the certified weighing also delivers the expected quantity, avoiding the risk of over-loading or under-loading.

Thierry Marchand - Project Leader at LAFARGE Aggregates South, commented, "This major project has required a comprehensive approach and could not have been successful without the technical expertise within LAFARGE and PRECIA MOLEN. It is easy for all to grasp the technical aspects of this type of loading and the significant benefits of streamlining operations on our site."



# THE SANDVIK QJ241 DRIVEN BY YOUR NEEDS

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## RUD EASYLOCK Chain Fitting systems reduces Chain Fitting time by 30%



**Erlau, a major division and premium brand of the RUD group, are leading manufacturers and suppliers of tyre protection chains. RUD are known in the industry for their commitment to innovation having worked alongside many heavy operators across industries such as; quarrying, mining, and recycling to name a few.**

Installation and fitting of tyre protection chains is a dangerous and strenuous job that can easily result in injuries to the fitter and chains. The EASY-R-LOCK system has been designed to make the fitting process safer, easier and faster process.

EASYLOCK, is an innovative connecting ring that makes fitting chain tyres a much easier, faster and safer process. EASYLOCK comprises only two components, is easy to handle, ensures safe installation and reduces chain fitting time by 30%.

It consists of an open omega ring and a locking hasp. Once the ring is passed through the wear links, the hasp is pushed over the two prongs. It is then secured with an Allen key, by a 90 degree turn of the integral locking device. EASYLOCK then remains in place until removed. EASYLOCK can be retro-fitted to any 19 mm or 23 mm TPC.

The range also consists of the EASY-C-LOCK and the EASY2LOCK chain fitting systems. The EASY-C-LOCK system requires no hammer; it makes installation an extremely safe procedure. It is extremely easy to use and only has two components to handle; it greatly reduces the chain fitting time and increases safety and overall efficiency.

The EASY2LOCK tyre chain fitting system increases overall safety and handling during the fitting process. No tools are needed, the system is self-locking, no over-tension, no screws used there increases re usability. Make your tyre chain fitting a safer and faster process.

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**180 years of processing solutions.**

**McLanahan Corporation has delivered custom engineered processing solutions for the world's most demanding industries for over 180 years. This family-owned company started as a foundry in 1835 and has grown to carry a comprehensive line of mineral processing equipment to handle a wide variety of applications. After having served the European market for years, the company opened an office in the United Kingdom to better support the region in 2012.**

Although the company started as a foundry-only operation, it didn't take long for it to change to a supplier of processing equipment. In the late 1800s, the company originated both the Log Washer and Single Roll Crusher, leading them to eventually offer a complete line of processing equipment.

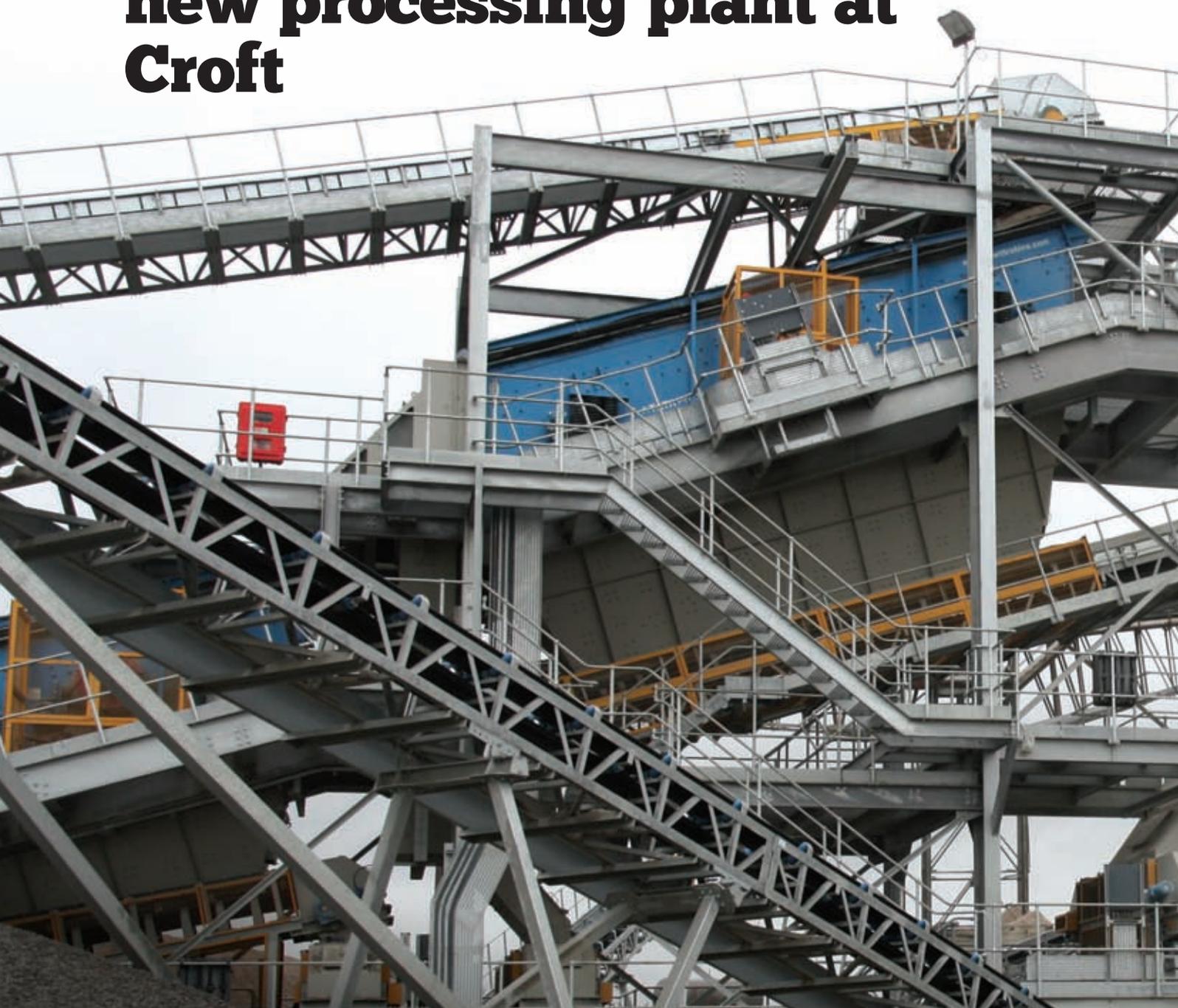
When working with McLanahan, customers receive custom engineered processing solutions designed specifically to handle their needs. With McLanahan, there is no one-size-fits-all solution. A team of process engineers consults with customers, as well as designs equipment that can be used from start to finish in a plant. Extensive laboratory and on-site testing is offered to ensure that application needs are completely understood. Teams of engineers then work to confirm that the equipment meets the specific application requirements.

Through acquisitions, innovations, new industry ventures and global offices, McLanahan is able to do more for its customers, and in turn customers become more efficient, more productive and more profitable. Not only does McLanahan offer safer, simpler and smarter solutions, but they also back up their equipment with unmatched service and support. From start to finish, McLanahan is passionate about helping its customers make the most out of their plant.

To learn more about McLanahan visit <http://www.mclanahan.com> or e-mail [enquiries@mclanahan.uk.com](mailto:enquiries@mclanahan.uk.com). You can also hear directly from McLanahan customers and view equipment in action on the McLanahan Corporation channel on YouTube.

 [www.hub-4.com/directory/11471](http://www.hub-4.com/directory/11471)

# HRI provide screens for a new processing plant at Croft



**Hewitt Robins International (HRI) - a Tata Enterprise, have recently supplied four Quad-V screens for a new processing plant at Croft Quarry in Leicestershire.**

**Owned and operated by Aggregate Industries (AI), Croft is an established quarry covering an area of 89 hectares in total. The site has a significant history as the granite was first used by the Romans to construct the foundations of bridges on the Fosse Way. Today the quarry processes approximately 1.2 million tonnes of granite each year which is sold to an on-site concrete plant, asphalt plant and a block making plant. These sales are combined with local deliveries reaching as far as Redditch. Stone is also delivered via the on-site railhead to depots in the South East.**

## The new screening plant

With all the crushers located in the main process, the new 500tph processing plant consists of four Hewitt Robins screens, stocking out conveyors and a re-crush conveyor. Completed in July 2014, the whole project took six months to complete, with the plant being designed, specified and constructed by Roltech Engineering of Newcastle-under-Lyme, Staffordshire.

Brian Wiltshire - Works Manager AI, commented, "We looked very carefully at screen suppliers and eventually chose Hewitt Robins because of build quality and the ability to supply exactly what we wanted. An additional benefit has been the commonality of the vibrating pods, which are all interchangeable therefore we only need one spare set."

Hewitt Robins supplied four screens in total;

two Quad-V14 - 2.7 x 8.4m inclined double-deck screens, one Quad-V14 - 2.7 x 7.2m inclined single-deck screen and one Quad-V11 - 1.6 x 4.8m inclined double-deck screen.

Each screen was supplied with 12.5mm thick side plates and 17.5mm thick doubler plates around the vibrator unit for extra strength and durability. The screens are of a bolted construction for ease of maintenance and incorporate bolted feed boxes and discharge lips. Support springs, spring base plates, pivoting motor base, complete v-belt drives and pullies complete the specification.

The screens were rubber lined with bolted liner rubbers with the cross members lined with 6mm thick rubber to provide complete protection. A rubber curtain in the back plate provides access to the bottom deck, at the feed end of the screens. The decks were fitted out with M.H.P rubber modular deck system. The screens were also supplied with complete dust encapsulation, which was imperative.

Hewitt Robins delivered the screens within 12 weeks of order with all screens being fully commissioned by Hewitt Robins engineers.

Brian, further commented, "After months of operation we have had consistent performance from the screens, Hewitt Robins have been very accommodating and supplied screens that are perfect for the application."

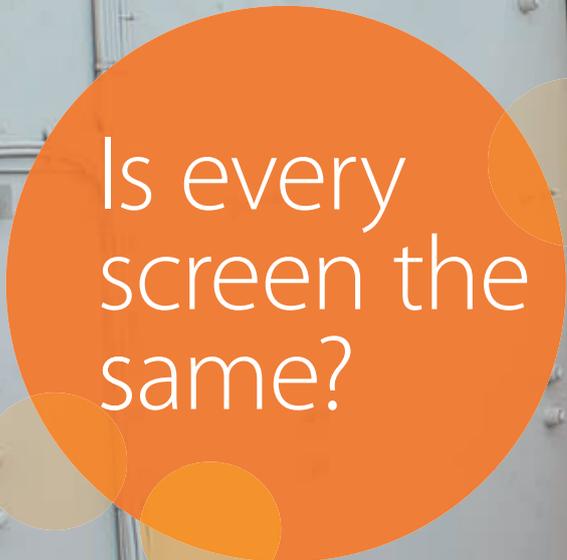
## HRI Quad-V Inclined Screens

Each one of the Hewitt Robins screens at Croft is fitted with the Quad-V14 vibrator mechanism. These are designed for exceptional reliability and low maintenance. The pod type vibrator unit consists of 2 bearings per pod (4 per machine) to give increased bearing life and less downtime.

Each Quad-V pod is connected through the centre of the machine using a Cardan shaft drive which can be disconnected, thus eliminating the issues of cumbersome heavy shafts that require craneage. Additionally, the Cardan shaft design also provides increased distance between the decks for maintenance and changing modules.

All Hewitt Robins Inclined Screens are custom designed to suit specific applications, with replacement screens engineered to fit into existing structures, saving valuable down time and money.

Hewitt Robin's manufactures 100% in the UK and is known globally for producing superior quality equipment which operates in some of the toughest working environments to man. All equipment is backed up by exceptional customer service and parts support making Hewitt Robins the preferred supplier for mining, aggregates and steel producers around the world today.



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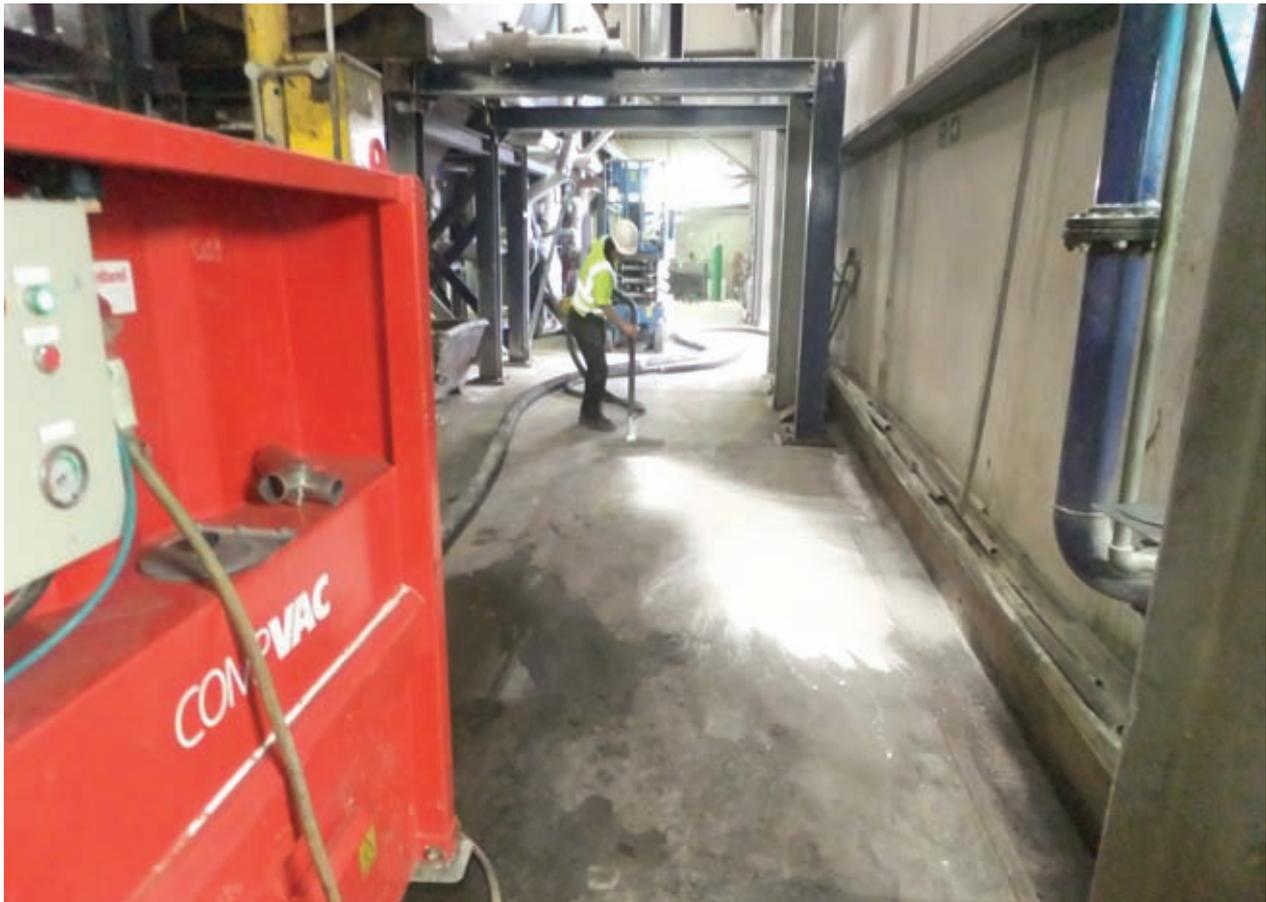
Metso offers a full range of robust and reliable screens including the ES high-energy elliptical motion screen and the CVB inclined circular motion screen. Working in partnership with our customers we have continuously developed our range to provide maximum performance.

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# Francis Flower turbocharges quarry housekeeping efficiency with DISAB CompVac



**One of the major names in mineral extraction, Francis Flower, has found a DISAB CompaVac is generating immediate improvements in cleaning and housekeeping standards, dust exposure reduction, and operative efficiency.**

Having trialled one of the market leading DISAB industrial cleaning and waste removal machines for a couple of months at their Wicken quarry in Cambridgeshire, Francis Flower's quarry manager is delighted with the results, stating "Of all the various approaches and equipment we've tried, the DISAB CompVac is the best we've used for dust and spillage removal."

### **Limestone for construction and agriculture**

For over 50 years the Francis Flower group has specialised in milling, grinding, blending and storage of fine mineral powders, making it a leading provider of specialised mineral materials and services for a range of industrial sectors. At their Wicken quarry in Cambridgeshire soft limestone is extracted and milled to customer specification. The limestone has a maximum content of 99.3% calcium carbonate and is used in the construction and agricultural industries.

The extraction and milling processes mean there's inevitably dust and occasional spillages around the plant, especially when the limestone is damp and tends to stick to or fall from rollers and conveyors onto the floor in the buildings housing the milling plant.

### **CompVac easily trumps traditional manual cleaning**

Prior to hiring a DISAB CompVac, brooms, spades and brushes would be used to sweep up dust and remove process spillages at the rate of around a tonne a week, but as anyone knows, brushing fine dusts is highly inefficient as it tends to generate airborne dust and increase the exposure risks for those working nearby or doing the cleaning.

The quarry manager knew about DISAB and its industrial vacuum machines, so he went online to [www.disab.com](http://www.disab.com) to check out the units on offer and the contact details, and then spoke with MD Richard Eve who advised him to hire a CompVac. Shortly after the call, Richard came to the Wicken site to demonstrate the CompVac, and proved there and then that its hopper's capacity and the unit's considerable suction power were just what he needed.

### **Sound advice, great results**

The quarry manager commented, "I'm glad we took Richard's advice which was that for our needs, especially when the limestone dust and spillages becomes damp, a CompVac would provide more capacity and suction power, and therefore be that much more effective at the complete removal of the dust and spillages." >

He continued, "That's exactly what has proved to be the case over the past couple of months, so we're very pleased with the outcome and are now looking at purchasing one in the near future."

To make the point, the old ways of manually removing dust and process spillages took at least two men several hours at a time and was deeply unpopular as well. By comparison, using the CompVac means just one operative is needed at any one time, and for much less time. The CompVac's internal hopper only needs to be emptied on average three times a week, and having been checked for any metal items like welding waste, is recycled back into the milling process.

### CompVac's technical advantages

In addition, the CompVac's proved very easy and simple to use. It can be taken with a fork lift truck to wherever it's needed, so long as its long cable can be hooked up to a 32amp socket.

It comes with a 20m flexible suction hose and a wide range of accessories that make it easy for one man to access the nooks and crannies under, over and around plant. Its large capacity hopper also means a lot more time is spent cleaning up than emptying, a major drawback of smaller vacuum machines, and it's easy and safe to empty material back into the production process.

### Happier employees

The quarry manager's also noticed how much more popular the CompVac is with his employees in the quarry, saying, "Compared to brushes and brooms, the CompVac is a genuine big boy's toy with a lot of power, and there's no question they are much happier using the CompVac to do what used to be a really unpopular chore."



### Better standards

He continued, "More importantly, we can all see that the CompVac's vacuum power removes all the dust and process spillage, which means we're also minimising the risk of dust exposure as well, so it's improving our H&S standards on site.

"That in turn means that we're meeting and surpassing the monthly internal Head Office inspections, and when customers do come to see the quarry site for themselves, they can see that we're taking really good care of the housekeeping, plant, etc."

### Win win on all criteria

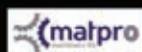
Summarising, Francis Flower's quarry manager went on to say, "I've had some really positive feedback from all the men that use the CompVac. I've halved the manpower needed to do the daily housekeeping, while improving the standards as well, as the net results around the plant sheds and site are obvious for anyone to see. The CompVac deals very effectively with waste material from a few microns up to 40mm in diameter."

"In turn, because the removal of dust and spillage by vacuum minimises dust exposure compared to brushes and brooms, the H&S standards are higher as well. So that's why we're looking at getting one of our own CompVacs for the Wicken quarry - it's a far better cleaning solution all round."

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# Garriock Bros. Ltd celebrate 10 years in Partnership with Metso

**The HUB recently visited Garriock Bros. Ltd to find out more about this year's 10th anniversary celebrations as the only UK distributor for METSO mobile crushing equipment. But in fact there was another reason to celebrate, 40 years in business as a limited company.**

Garriock Bros. started life in the Shetland Isles in 1972 and after establishing its firm base there expanded to Orkney, then Edinburgh, and then to Coventry. It is now a business turning over 24 million and employing 160 people across seven divisions: civil engineering, house building, plant and tool hire, parts supply, car hire, machine sales and manufacturing services, with the Metso distributorship now accounting for around a third of the business turnover.

After been themselves a customer of Metso, the distributor partnership began in 2005 when Garriock Bros. Ltd were given the distributorship for the whole of Scotland. Following on-going growth and success, in 2011 they were then offered the distributorship for both England and Wales. A central depot in Coventry was opened that year with a 3million investment by Garriock Bros. With the continued growth and success of the Metso product, expansion plans for new depots in Teeside and Orkney are well underway to continue the coverage and client support.

Metso UK Ltd and the factory in Finland are constantly giving on-going training and product support to Garriock Bros. to help grow the business through quality, and George Garriock, Managing Director was keen to talk about this. "The relationship with Metso is first class and the quality of their engineering is superb; at the factory they have their own foundry and all impurities are taken out during processing before it goes to production. We are very happy with the partnership with Metso and the quality of the machines and this side of the business is set to grow substantially.

We are very strong on second hand Metso machines and have contacts worldwide so export many machines each year. We pride ourselves on refurbishing the machines so they are like new and there is a very good second hand market for Metso machines, as they command such a good price."



Michael Broe, Director explained "The most popular models across the range include the Metso Lokotrack® LT106 and the Metso Lokotrack® LT200 Crushers, but there are lots of new innovations from Metso coming through, making the machines better. There are wireless links and I-C Care where an operator can see exactly what's happening in the crusher from the digger cab. There is also the ability the remote monitor the client's crusher wherever it is in the country, and shut it down if required from here.



Coming very close to being distribution World leaders in 2014, they have supplied between 230-240 machines during the last 10 years, a fantastic achievement for both companies. Recent supply deals have included Wordsworth Crushing and Screening, who have bought 6 machines, and Gallagher's who purchased one of the larger Metso Lokotrack® LT125™ mobile jaw crushing plants. Also, the very first Metso Lokotrack® LT 220D™ in the UK will be going in to one of their own quarries shortly in Shetland, to process high quality PSV stone using this unique recirculating process which can produce around 200 tonnes per hour (we will keep you informed on this project through the rest of the year).



Offering a UK wide service coverage their own engineers can visit clients' sites to make sure that any downtime is kept to a minimum. Also stock for spares and parts is carried in-house across the depots, so can reach the customer quickly and this is set to grow once the new depots come on-line.

We also talked with Adrian Wood, UK Director of Metso. "Having been involved with Garriock Bros. Ltd from when they were a Metso customer, it has been fascinating to see the evolution of the business model to where we are today. Garriock Bros. Ltd are a partner offering a world class sales and support organisation throughout the UK, who have invested heavily in facilities, tools and people to ensure that the Metso Lokotrack brand is well maintained.



Metso UK Ltd has direct sales for fixed and mining equipment, with Garriock Bros. Ltd as the exclusive partner for track mounted crushing and screening equipment in England, Wales and Scotland; this allows each division to focus on their side of the business which Garriock's certainly do, offering the customer base a large number of services from quickly delivered new equipment from their large varied inventory held in both Edinburgh and Coventry, high quality fully refurbished second hand equipment, rental, lease to buy, high level service and technical support, and genuine OEM spares and wears.

The ten years have been a true journey, but I can say that Metso have a truly great partner in Garriock Bros. Ltd and that I look forward to working in unison with them for many years to come."

We can definitely see that it's going to be exciting times ahead for both Metso Minerals and Garriock Bros. With the growth in the marketplace and the levels of expertise that both parties have, it's a great partnership.

For more information on Metso, please visit [www.metso.com](http://www.metso.com) and for more information on Garriock Bros. please visit [www.garriock.co.uk](http://www.garriock.co.uk)

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# CMB International puts CEMEX Northfleet operation back on track

**CMB International has just completed a complete refurbishment of a Cedarapids twin-deck 20m x 6m primary rinse screen at CEMEX UK's Northfleet operation.**

Owned and operated by CEMEX UK, Northfleet Wharf is a marine aggregates facility situated on the south bank of the Thames at Northfleet in Kent. It is a very busy wharf that supplies to an on-site ready-mix plant, bagging plant and a block making plant and also external ready-mix plants in the area.

With material arriving from the Thames estuary and the south coast the as-dredged material is fed from stockpiles to the 350/400tph plant which features twin aggregate processing lines.

Although now eight years old the plant has performed well over time but the screens have had consistent on-going issues in recent times and with a primary rinse screen that was now in desperate need of attention the Northfleet team invited several companies, including CMB International to tender for a complete refurbishment of the failing screen.

CMB International who already has a first-class reputation from their work at other CEMEX UK plants offered a good working solution and they were duly awarded the order to refurbish the screen.

## **An easy change:**

Michael Hinson - QM, commented, "As we have more or less an identical plant to Angerstein Wharf we currently have two 'spare' screens in circulation so if we have any issues we have a 'spare' to drop in while we sort the issues out with the problem screen."

This spare facility made the change much easier so CMB International subsequently removed the screen and took it back to their workshop and re-engineered the whole screen, including a new screen box, new assemblies and the incorporation of a shaped doubler plate down the length of the screen full, both sides.

Michael further commented, "CMB strengthened up certain parts of it and they changed the framework completely. They also changed the throw on it, by reducing the G-Force, to reduce wear. To be honest since CMB reinstalled and commissioned it the screen hasn't missed a beat! We have changed the oil on it twice just to make sure everything was OK. We are very pleased and considering it was the first work that CMB have done on our screens we are delighted with the results."

With the removal of the diagonal cross members and the height between deck and cross members increased the decks are now thermally stress relieved with the result that the decks are now extremely strong

Michael, continued, "The new refurbished screen was reinstalled in two days, everything went very smooth with the CMB engineers commissioning it within the scheduled time frame."





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# New broom sweeps clean at Lafarge Tarmac

**Lafarge Tarmac is the UK's leading sustainable building materials and construction solutions business. Its innovative products and solutions have contributed to some of the UK's biggest construction projects, and it has an unrivalled supply and distribution network that includes over 330 sites. Lafarge Tarmac products meet the highest standards of sustainability and performance, as you would expect from a market leader. They are responsibly sourced and certified to BES 6001.**

One of its sites, Broom, Bedfordshire, UK, now boasts the world's first Terex Washing Systems (TWS) AggreSand™ 206 modular washplant seamlessly combined with the AggreScrub™ 150 where an exclusive Open Day event will take place on 28th and 29th April. The event is open to TWS dealers and potential new customers seeking innovative washing solutions for their quarries. This provides the first ever opportunity for customers to view the AggreSand™ 206 and the AggreScrub™ 150 seamlessly combined, processing in excess of 350tph and producing 3 aggregates and 2 sands. You will also have the opportunity to meet with TWS and Duo Plc team of engineers, applications and specialist technicians to discuss your specific washing needs. Booking is essential to attend the event, register today by contacting: [TWS.Sales@terex.com](mailto:TWS.Sales@terex.com)

Iain Walker, Global Sales Director, TWS commented "I look forward to personally welcoming our global distributors, their customers and potential new customers to the open day. The Lafarge Tarmac installation at Broom represents another significant step forward for TWS. Not only does it showcase our new AggreSand™ 206 system, it also combines this with an AggreScrub™ 150 to ensure both high quality and high capacity production of sand and aggregates. This project

demonstrates how TWS work effectively with our dealers to serve the specific needs of a key client. This project provides a true blueprint for high quality, high capacity washing systems for a wide range of material types".

This is the second AggreSand™ to be installed at the Broom site. In early 2014 Lafarge Tarmac approached Duo PLC, Terex Washing System's distributor in England and Wales, to discuss what options they could offer to provide increased production at their Broom, Biggleswade site in Bedfordshire. Duo Plc recommended the recently launched AggreSand™ 165 modular wash plant, which was at the time efficiently producing quality products for many other producer's around the globe.

Garry Stewart, Application Team Lead, TWS, commented, "The market has really embraced the AggreSand™ washplant concept with exceptional demand at the moment. To date, TWS has installed the first AggreSand™ 206 washplant in the UK with several more already planned globally. In addition multiple AggreSand™ 165 washplants are operating around the globe, operating efficiently with optimum productive performance. TWS are constantly looking at innovative ways to further enhance and develop our existing products so we can continue to meet the individual needs of our customers."

The AggreSand™ concept pre-wired & pre-plumbed with quick installation was particularly intriguing to Lafarge Tarmac as a solution to their specific needs, which was far removed from wash plant installations they experienced in the past. The material to be processed at Broom required scrubbing in order to produce a clean aggregate suitable for drainage, decorative stone and concrete production. The AggreSand™ 165 was opted for and was installed in June 2014 and has been producing 1000's of tons of quality clean aggregate and two in spec mortar and concrete sands.



The continued strengthening of the UK aggregate market particularly in this strategically important location of the UK prompted Lafarge Tarmac management to approach Duo Plc once more to investigate how production could be increased further. Lafarge Tarmac particularly liked the modular concept of the AggreSand™, however they required increased production to meet the constantly growing demand. It was quite timely as TWS had just announced details of the larger capacity AggreSand™ 206 as well as the AggreScrub™ 150, which was set to be the next ideal combined solution for Lafarge Tarmac specific requirements.

TWS Applications and Design engineers, along with Duo Plc visited the Broom site to meet with management to identify and suggest a plant that would address their specific needs. The AggreScrub™ 150 offers increased production capacity and increased levels of access in comparison to the previous PS120 range. The seamless combination of the AggreSand™ 206 and AggreScrub™ 150 was particularly appealing to Lafarge Tarmac in terms of access, serviceability and modularity. Based on the efficiencies and productivity of the previously installed AggreSand™ 165 at their site, combined with the potential capabilities of the larger capacity AggreSand™ 206, Lafarge Tarmac opted for this along with the AggreScrub™ 150 to provide extra capacity.

The full plant is now installed and fully commissioned at Broom, Bedfordshire, UK and is producing in excess of 350tph of three quality aggregates and two in spec sands. The plant consists of a bespoke feed system which can either be fed by wheel loader via a 12' vibrating grid or by Lafarge Tarmac's existing land conveyor and radial feed conveyor. The feeder including the vibrating grid is electric hydraulically powered.

The main inclined feed conveyor is 23m long and is inclined at 180 and is 1050mm wide. The conveyor is driven by two 11Kw electric motors and bonfiglioli gearboxes mounted on either side of the drive drum. This set up not only provides balance to the conveyor but also gives superior torque characteristics. Lafarge Tarmac specified the use of cooper split bearings on this conveyor for ease of maintenance. The inclined feed conveyor has an integrated wash box c/w spray bar which pre-soaks the feed material before it reaches the rinsing screen.

The AggreSand™ 206 at Broom is a three deck version which utilizes ten individually controlled spray bars on each deck. The two bearing screen is fitted with polyurethane modular media on all three decks. The top deck acts as a protection deck removing any material above 80mm. The middle deck is a 40mm passing deck while the bottom deck is split, 2mm and 5mm to produce the required two sands. It is fitted with two stumpy conveyors which deliver the over and mid-size material to two 65' stock piling conveyors. Chute work on the AggreSand™ 206 employs the now well tested dead-box system which results in rock on rock set-up which is proving to give excellent wear properties.

The feed material at this site has a high sand to stone ratio which meant that Lafarge Tarmac wanted to produce in excess of 200tph of sand. TWS Engineers provided an innovative solution whereby the AggreSand's™ single grade 200tph sand plant produces the concrete sand while a TWS FM 120C is utilized alongside the AggreSand™ 206 to produce the masonry sand. Currently the AggreSand's™ 206 single grade sand plant which consists of one 45Kw 250/200 pump and two G4-660mm cyclones is producing in excess of 180tph of clean in spec concrete sand. The FM 120 which has a 200/150 30Kw pump and one G4-660mm cyclone is producing





80tph of in spec mortar sand. These two sands are produced on a split bottom deck on the AggreSand™ aggregate screen consisting of 2mm and 5mm apertures. A specially designed rubber-lined catchbox allows blending to take place so that an acceptable coarse and fine sand ratio can be achieved. The fine material is captured in one section of the two grade catchbox and piped to the FM120C's sump tank.

The material between 40 and 80mm is rinsed clean and stock piled and crushed periodically. The material between 5mm and 40mm is fed to the AggreScrub™ 150 for scrubbing and removal of clay conglomerates. The material to be scrubbed is fed via a specially extended (16m) conveyor which safely feeds this sticky material at 170 to the AggreScrub™ 150.

The AggreScrub™ 150 consists of an 8m hull fitted with two rotating shafts fitted with 30mm abrasive resistant blades. The blades convey the material from the feed end of the scrub to the aggregate rinsing/sizing screen. 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 floated off through the back of the AggreScrub™. Any organics such as roots or plastics are also floated off to be dewatered over the AggreScrub's™ 6 x 2 trash screen. The underflow from the trash screen is captured in a catchbox under the screen and piped to the sump tank under the hull.

The scrubbed aggregate exits the front end of the AggreScrub™ 150 onto a 12x5 part rinsing screen. The initial section of the screen is fitted with spray bars to rinse off any grit produced during scrubbing. The rinsed grit is captured in a partial catchbox under the screen and is piped to the sump tank below the hull to join the trash screen underflows. The sump tank is fitted with a 100/100 centrifugal pump which pumps this dirty water back to the AggreSand™ 206 sand plant to recover any sand. The two deck 12x5 screen is fitted with polyurethane modular media to produce 5-10mm, 10-20mm, and 20-40mm clean aggregate. The three clean grades of aggregate are stock piled using three TC6532 conveyors.

The control system for this specific AggreSand™ wash plant is stored in a centralized cabin on the site which is one of the options offered by TWS on all AggreSand™, alternatively the panel can be mounted onto the machine, all of which are pre wired. The option selected by Lafarge Tarmac means that the plant is supplied wired to isolators and wired to the centralized control panel on site. This option exemplifies the flexibility of TWS and the AggreSand™ concept to suit individual customer needs or preferences.

To find out more or to discuss specific washing requirements, contact us at [TWS.Sales@terex.com](mailto:TWS.Sales@terex.com) or visit our dedicated website which provides an overview of the full product offering at [www.terex.com/washing](http://www.terex.com/washing)



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# All Washplants Great and Small



## Washpod is a huge success for Breendon Aggregates in Scotland

The HUB recently visited Breendon Aggregate Scotland's Sorn Quarry in Ayrshire to find out how the first Bruce Washpod installation in the UK has helped produce a saleable product from quarry dust. Sorn Quarry is a hard rock operation which produces aggregates for sale in the Ayrshire market as well as for use in Breendon's valued added units in the area. Due to the nature of the demand for the Quarry's products the volume of crushed rock fines produced exceeds demand for this product and has resulted in continual stockpiling of this material.

After discussions with Bruce Engineering the Company agreed to purchase the Bruce Washpod which was installed in late 2014 and which is used to make a product which, when blended with a proportion of natural sand, produces a good quality concrete sand.

The HUB discussed the project with the Quarry Manager at Sorn. "The idea was to try and get a saleable product from large stockpiles of quarry dust we had on-site, specifically a material that could be used in concrete plants. The whole project has been very successful and is now producing a product that we are using within the company and selling in the market place. The more products we can produce to sell through recycling our own material is a big bonus. The Washpod is a great piece of kit and a lot of thought and design has gone into it".

Talking with the Assistant Quarry Manager, who manages the washing operation revealed more. "The dust comes up the loading belt and into the log washer, it's a single screw log washer which is basically working the stone against each other through attrition. It's getting blended with water, coming onto a two deck screen, which is splitting it into three

sizes, oversize off one belt, and 10-4mm off another belt, and then the 4mm down product is coming down through the screen into a sand tank.

This is then sucked out by a pump and fed up to a cyclone, which is then fed onto a de-watering screen. The 4mm sand product is then delivered off the third conveyor belt.

We chose the Washpod because its mobile and we wanted something that we could easily move between sites if needed. It's much easier having it on just two frames, it's easy to move and setting it up is simple. Since we installed it here we have been washing crushed rock fines and making a washed product for use in our concrete plants. We've also saved on haulage (compared to natural sand) and sold material into the external market. It's generating revenue and giving us a market for our dust which we didn't have before."

Since its launch last year at Hillhead the Washpod has gone from strength to strength and has the added bonus of having the smallest footprint of any washplant on the market, a fast set-up time of one day and is easily transported without the need for specialist transport which is a major cost saving.

With their core focus on Washing & Renowned for High Quality & Innovation (Winner of Best New Product 2014 - HUB) Bruce can provide customers with Custom solutions for to all their aggregate washing requirements offering customers a complete package dealing with virgin material right through to recycled material.

So if you are looking for a solution to handle difficult material or would like to confirm a site visit or for further information contact Caroline on 028 8676 3684 or email [caroline@bruce-eng.co.uk](mailto:caroline@bruce-eng.co.uk) | [www.bruce-eng.co.uk](http://www.bruce-eng.co.uk)

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## In another part of the United Kingdom...

Bruce have recently installed a brand new wash plant in the UK, which is totally bespoke and one of a new breed of plants, and is one of the most exciting they have installed to date. We will be bringing you a full review on the plant in our July edition.



**Meanwhile down under another Bruce Wash Plant has just been installed in Australia! - we will keep you updated in the next issue.**



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## Bagnall Construction Add Value With A Portafill 3000 Washing Plant



**Bagnall Construction, a Staffordshire based company have taken delivery of a Portafill 3000 mobile washing plant.**

The plant consists of a tracked Portafill 3000 rinsing screen, a Portafill sand dewaterer and associated pumps and pipework.

The plant is being used to clean the filter media gravel used in the filter beds by the water companies across the UK.

The benefit of washing the gravel is that it saves having to buy in new gravel, when the existing gravel can be washed onsite and thus reducing haulage and material costs.

In addition the plant is being used to wash recycled aggregates to 10mm, 20mm and concrete sand.

The Portafill wash plant was chosen for its unique compact size which means that it can be easily moved around the country to the various sites that require their material to be recycled.

Measuring only 10 metres long x 11 metres the plant takes up a very small footprint.

The Portafill 3000 is fitted with double deck rinsing screen, tipping grid and two onboard conveyors which stockpile the washed stone. The sand and water are then sent via rubber piping to the Portafill DW80 where the sand is washed and stockpiled and the waste water and silt can be sent to settlement tanks or lagoons.

John O'Neill of Riverside Machinery comments "the Portafill washplant is a relatively new product to the UK market however with Bagnall Construction proving how easy the job is made by such high quality equipment I have no doubt that this will prove a very successful product for us.

If you would like to hear how this product could benefit your business please do not hesitate to contact us on +44 (0) 800 689 9024 or [john@riverside-machinery.com](mailto:john@riverside-machinery.com)

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## EDGE Innovate & MAX Innovate provide a true robust solution for the trommel fines issue

Rob Newell of Max Innovate with Mick Jones, Managing Director of Go Waste Ltd

**David Roberts of HUB-4 recently visited Birmingham to check out one of EDGE Innovates latest installations. Go Waste is a Saltley based recycling business who specialize in accepting C&D and C&I waste from around the greater Birmingham area. Started in 1985 by Mick Jones, the business has grown substantially over the past few years and needed a solution for the growing amount of waste that they are taking in, and the subsequent amount of trommel fines that they are producing. They also needed a plant that could meet the standards raised by the HMRC and the trommel fines situation, With the current consultation document on Loss Of Ignition test (LOI) to determine the correct tax liability on segregated fines, subject to qualifying material inputs, this plant can be adjusted and changed, to cope with any outcome in this eagerly awaiting industry issue**

Talking with Mick at length, he was very happy with the project and installation "The machines from EDGE and the service from Max Innovate have been a great success for us, we are now processing on a regular basis between 15-20 tonnes per hour of waste through the new machine. The core process for the plant is to separate the heavy and light fractions, and in achieving this we generate a clean soil coming off it now. With the extra magnets that Mick insisted on we are also extracting all the metal, right down to screws and tacks. Through this process we have found that around 50% of the fines that we were taking to land fill is now turned into clean heavies which is of course a hard-core

product that we can dispose of much easier and more cost effectively. So we are now making a very substantial saving on our running costs compared to before.

The EDGE Fines Recovery Plant incorporates a ten stage separation process; it is the perfect solution to reducing landfill costs and generating more revenue. The plant incorporates a mobile Feeder Stockpiler with bespoke hopper, a Flip Flop Screen, over-band and head drum magnets, blowers and a material classifier. The plant combines mechanical screening with "Light V Heavy" material recovery technology.

We have been very happy with the service from both Max Innovate and EDGE, and with the machine I think it's better than anything out there currently. EDGE and Max Innovate took a huge interest in the project and made lots of site visits to make sure everything was done right. After looking at other machines, I think that EDGE is way ahead in build quality and the end product that comes out is much better. The service has been second to none. Niall McKeever, Development and Research Director also came over from EDGE, and I was really impressed with how passionate he was about the plant and the process. I also visited the EDGE factory which was a great experience.

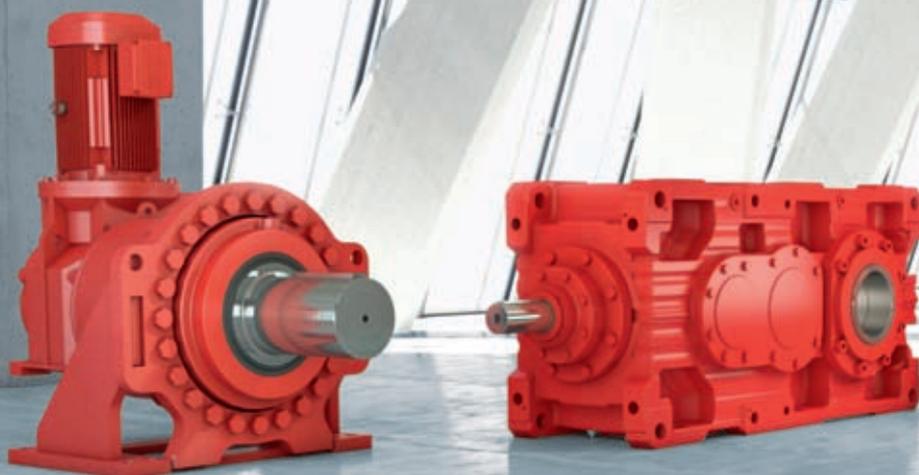
The EDGE product and service from Max Innovate has so impressed me that I extend an offer to readers of HUB4 to check the plant out. I'm willing to speak to anyone who is looking for the best kit as you only get one chance."

For more information on EDGE Innovate and MAX Innovate, their UK dealer, please visit [www.edgeinnovate.com](http://www.edgeinnovate.com) or [www.maxinnovate.com](http://www.maxinnovate.com)



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# Mick George makes the cut with TANA Shark

**Mick George Limited is one of the leading suppliers to the construction industry in East Anglia and the East Midlands, specialising in providing bulk excavation & earthmoving services, aggregate supply and waste management services. With quarries, landfill sites and waste transfer stations spread across the region it is easy to see how much Mick George Limited has grown since operating with a single tipper truck in 1978. The company's commercial fleet size has now grown to be in excess of 180 HGV vehicles and Michael George (Operations Director) believes that all this success has been put down to their "in-depth industry knowledge and experience, plus an unswerving commitment to providing reliable and professional services."**

This year Michael identified the need for a Waste Shredding application that would predominantly be used on greenwaste, tree roots and stumps for composting and volume reduction for their waste facility at Rushton. As well as a solution for greenwaste, Michael went on to say "We also wanted the option of shredding tyres for drainage, waste for RDF, and wood products for Biomass." With particular attention to the size of the products being a key factor to their decision, Mick George Ltd went about identifying a shredder that was versatile enough to handle the vast array of different solutions that they required.

David Banks of Warwick Ward (TANA UK Dealer) played a key role in demonstrating the TANA Shark's capabilities. David said "When Michael first approached me it was obvious that the TANA Shark 440DT was the shredder he was looking for." Not only did this shredder help achieve the processing needs he was looking for on different waste products, but by being so simple to adjust particle sizes, and move between waste groups, ensured that he was able to utilise the machine quickly and efficiently without any long downtime, ensuring maximum return from his investment. "After a successful demonstration we were able to show just how versatile the 440DT is and how the TANA Shark can be used throughout the business and not have a limited capability like our competition."



Mick George Ltd now operate their TANA Shark 440DT at their Rushton site and Michael is extremely happy with the purchase, with TANA not just providing unrivalled performance but class leading accessibility and fuel consumption. "We decided on TANA over all the competition as we can achieve so much more with it. By being able to switch product sizes so quickly and on so many different waste groups was fundamental in our decision making."

Gordon Jackson (Site Manager) who oversees the loading and running of the TANA Shark says "The machine is incredibly simple to operate, and ease of maintenance and accessibility is extremely important to our operations. Another great function of the TANA Shark is the TANA ProTrack (Information Management System) which allows us to optimise our process. With the added benefit of remote access for quicker and more accurate troubleshooting, it is reassuring to know that Warwick Ward can see a problem developing and act before it becomes a fault."

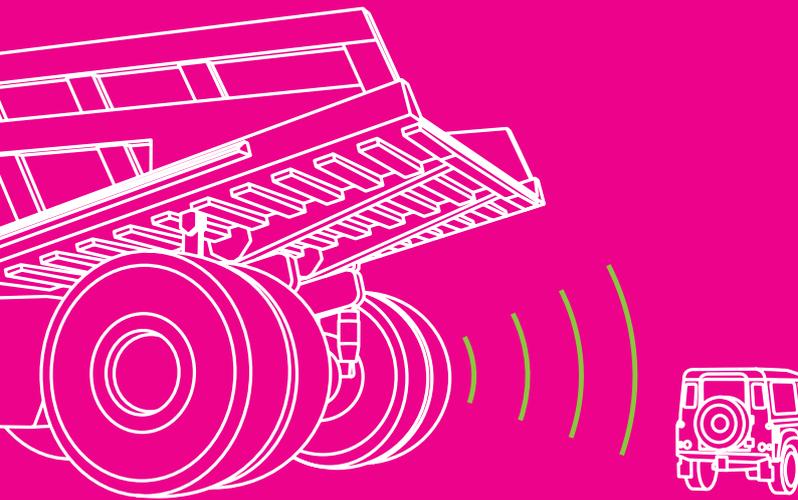


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## Having a "Fines" Problem? The Neuenhauser Flip Flow Screen is the Solution

**We are all too aware of the current problems facing skip hire companies and the issue with "fines" and how this is having a huge financial impact. At Riverside Machinery Ltd we believe the solution lies with a Neuenhauser flip flow. Until recently, and currently in some areas, fines from the Trommel can be as large as -40mm / 50mm. This is now changing, so that the fines need to be in the region of -10mm / 15mm.**

Unfortunately trommels struggle at this aperture due to the nature of the material being quite damp and sticky and also the throughput of the Trommel falls dramatically. To alleviate this problem, the solution is to use a flip flow screen. Flip flow screens have been around a very long time and have been used in Europe for many years and are a well proven piece of equipment in that they allow for screening at very small apertures and don't block up.

The Neuenhauser flip flow screen seen in the pictures is screening -40mm fines to a +10mm and a -10mm. The -10mm will be blended and classified as a soil and the +10mm will be sent to a wind shifter to remove the lights so that an aggregate can be produced. This set-up is currently saving the customer £4,000 per day.

If you would like to hear how we can help you, please do not hesitate to contact us on +44 (0) 800 689 9024 or [john@riverside-machinery.com](mailto:john@riverside-machinery.com)



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## Remu screening buckets help two customers recycle over 90% of waste materials

**Worsley Plant is committed to helping customers make savings and earn more money from waste, whatever field they may be in - demolition, waste handling, construction, recycling or landscaping. They have recently helped a couple of key customers recycle materials using a REMU Screening Bucket. These buckets separate rather than crush material, are virtually impossible to block, and run smoothly in all weather conditions.**

**ONE CUSTOMER, WANLIP SAND AND GRAVEL, WAS ABLE TO ENJOY SIGNIFICANT SAVINGS, IN TERMS OF FUEL, MAN HOURS, MONEY AND THE ENVIRONMENT. THEY NOW SEND LESS WASTE TO LANDFILL AND CAN SELL RECYCLED TOP SOIL AND HARDCORE ON AS AN EXTRA REVENUE STREAM.**



Wanlip Sand and Gravel invested in a REMU EE3160 HD Screening Bucket for use on their Volvo L90 Loading Shovel. As one of Leicestershire's longest established gravel specialists, they stock an extensive range of decorative gravels and rocks and also offer a range of materials to suit the builder, such as building sands, aggregates, mill waste and top soil. They also run an onsite Transfer and Recycling Facility accepting inert landscaping and building waste.

It is at this Facility that the REMU bucket is now being used to sort out Hardcore from Soil. Will Winterton of Wanlip, came across the concept of screening buckets when he was at Hillhead last year, after he visited the Worsley Plant stand and



Demonstration Area. He went on to try other buckets before making a decision, but found the REMU was best for his needs.

Previously, Wanlip had already tried McCloskey and Finlay screeners. However, with these, they often had to pass the materials through the screener two or three times, in addition to hand-sorting a lot of the material. This resulted in more time and manpower. A Screening Bucket offered them a better and more economical solution.

As a result of purchasing the REMU Screening Bucket Wanlip Sand and Gravel are now separating their materials with just one use of the bucket. They can produce 18mm down premium quality Top Soil, which they can sell on. They then crush, recycle and also sell on the clean Hardcore. This now allows them to recycle 90% of materials, resulting in taking less soil to landfill.

Will Winterton says: "The REMU bucket is a sound investment for us. It has resulted in us achieving a new revenue stream at our Transfer and Recycling Facility, as well as making significant savings for our operation. We wouldn't hesitate in working with Worsley Plant in the future as their service and expertise has been key in achieving this success!"

**ANOTHER CUSTOMER, RAINBOW WASTE, HAVE USED A REMU SCREENING BUCKET TO STREAMLINE WORKING METHODS AT THEIR WASTE TRANSFER STATION AND AS A RESULT HAVE ACHIEVED OVER 90% RECYCLING OF SKIP WASTE.**

Rainbow Waste, a family owned business was established in 1998 with one refuse truck and 40 second hand bins! Today, having moved to their current site in 2010, to enable the business to grow, they now operate a Waste Transfer Station and offer a full range of recycling services for commercial and domestic customers within a 20 mile radius.

Both Refuse Trucks and Skips come into the Waste Transfer Station. Wherever possible, ALL waste is recycled including wood, glass, metals, hardcore, soil, cardboard and paper. Their key focus is to eliminate waste going to Landfill.

The Refuse Trucks tip general waste which goes into a trommel and through the picking line. The Skips tip a much wider range of waste. Initially Skip contents are sorted by hand.



As part of the recycling process, Rainbow Waste purchased a REMU EP3150 Screening Bucket to use on their Bobcat (skid steer loader). The REMU bucket is used on Construction and Demolition (C&D) waste to screen hardcore away from soils. This leaves clean hardcore which is sold on and soils which are also recycled.

At the end of the picking line process the REMU bucket is also used to reduce the weight of any remaining waste by taking out leftover fines before any remaining waste goes to landfill.

These processes save a lot of man hours, which mean that Rainbow Waste can utilise their staff in other ways. This has the dual advantage of keeping

costs down and saving valuable time.

Chris Hill, of Rainbow Waste had a demonstration of how the Remu Screening Bucket could help their recycling process. Chris was extremely impressed and could see the advantages so Worsley Plant's Andrew Purse recommended the model ideal for his Bobcat. He bought the bucket and hasn't looked back since.

The flexibility of the REMU buckets with their twin mount system that can be fitted to both wheeled loaders and excavators also attracted Rainbow Waste. This future proves the buckets should a different carrier machine needs to be used at any time.

Chris says: "The REMU bucket will have paid for itself within the first 12 months of operation, so was well worth the investment. I've now reorganised the company's working methods and introduced a nightshift. The REMU Screening Bucket is part and parcel of that reorganisation. Now, a large pile of skip waste built up during the day can be processed overnight. It has allowed us to recycle over 90% of all skip waste and generate additional revenue streams. All this is working towards our ultimate aim of eliminating any waste going to landfill."

I would definitely recommend the REMU screening bucket and the quality service we receive from Worsley Plant to any other Waste Transfer Station, and will continue to work with them as we continue to grow."

Worsley Plant can offer advice on which REMU product is best for you. All models of screening bucket are excavator-friendly and fit excavators from 3 to 40 tonnes and skid steer loaders up to 21 tonnes.

## FEATURES of REMU Screening Bucket

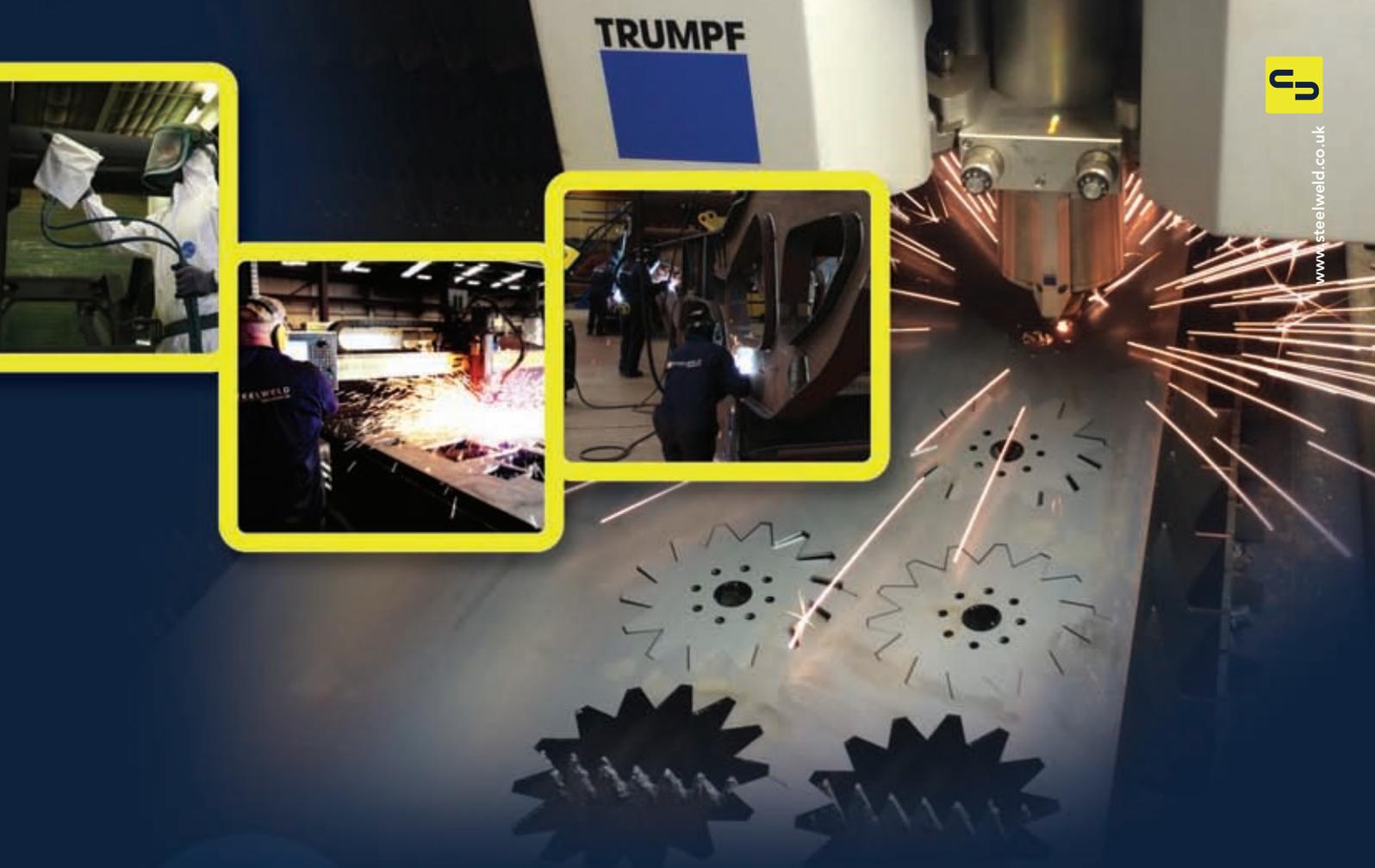
- Separates materials for recycling
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- Wide range of uses including topsoil cleaning, composting, industrial applications, recycling, excavation, backfilling and pipeline cover

Worsley Plant is one of the UK's leading providers of materials processing equipment to the recycling, demolition, construction, landscaping and waste management industries. Wheel loader and excavator-mounted screening and crushing buckets, demolition attachments, as well as density separation equipment are all available for sale or hire nationwide.

For further information visit:  
[www.WorsleyPlant.co.uk](http://www.WorsleyPlant.co.uk) or call 01606 83 55 44.

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## Classification of material results in valuable recyclable products

### LOI Tests Start April 1st 2015 - It's no joke!

Waste management companies will be hardest hit by the introduction of the LOI (Loss on ignition) tests with landfill tax charges being increased dramatically from £2.50 per tonne to £80 per tonne. This could mean an operator's yearly landfill tax bill leaping from £25,000 to £800,000 for 40 tonnes of waste fines a day, as previously reported.

Waste must be further separated and cleaned to further remove the calorific material that can be recycled, which will therefore result in the lower tax rate and hugely reduce landfill tax bills for the operator.

Impact's Zigzag Classification Unit (ZCU) has been successfully providing an efficient density separation solution for waste management companies with the ability to handle a wide range of materials and with specific adjustments to ensure maximum efficiency, the Zigzag is the obvious choice to minimise tax exposure.

Sam Corp, Head of Regulation at Environmental Services Association (ESA) said "An objective LOI test will go a long way to prevent the misclassification of waste, which has been so costly to responsible operators and to the UK's economy.

"We hope that the Chancellor's announcement of the Loss on Ignition test will give operators the assurance they need to put in place the necessary measures to implement the regime from 1 April."

In order to improve the consistency of the SRF being supplied to their in-house waste to energy plant, and to significantly reduce the labour involved in the separation of heavy contaminants, Robert Hopkins Environmental were introduced to Impact's full scale operational ZCU, Zigzag Classification Unit, at this year's RWM (Recycling & Waste Management exhibition).

As one of the longest serving authorised waste management service providers in the UK for collection and disposal of hazardous and non-hazardous waste, Robert Hopkins Environmental have a constant supply of oil impregnated rags from the petrochemical, engineering and automotive industry, which when pre-screened, shredded and finally processed by Impact's ZCU unit provides a very high calorific RDF.

In line with standard procedures, especially for a non-typical waste stream, extensive analysis was carried out to establish the waste separation efficiency of the ZCU (Zigzag



Classification Unit) Impact's model ZCU1000 was selected to handle the throughput of nominally 4 tph. The 1 tonne sample material was even contaminated, unknown to Impact at the time, with 30 penny washers of various sizes which were all recovered within the heavies fraction to the delight of Peter Hopkins, Managing Director of Robert Hopkins Environmental.

The combustible fraction, consisting of oil impregnated shredded rags are entrained in the upwards air stream within the Zigzag tower and transferred to the Rotary Separator before being discharged onto a belt conveyor feeding bulk collection bins. The heavy fraction, consisting mainly of hardcore, metal and glass, not entrained in the upwards air stream, are discharged from the bottom of the Zigzag tower onto a heavies conveyor for further processing via an ECS unit. The fine dust contained within the air stream is captured by the integral reverse air jet filter unit and incorporated back into the clean RDF stream.

Since the system was commissioned at Robert Hopkins Environmental it has benefited from an improved RDF output stream, Neil Fryer, Operations Manager commented,

"We are extremely satisfied with the results from Impact's Zigzag Classification Unit. Having previously tried other technologies the Impact ZCU system exceeded our expectations, we can now supply our WTE (Waste-to-Energy) plant with a consistent product".

Impact has been conducting a large number of material classification trials at its head office test facility in Leicester in response to the demand of its systems. Dave Lansdell, Sales Director commented "The unprecedented demand for our Zigzag Classification Unit has been phenomenal, with many of the trials being carried out for skip waste firms and other waste management companies. We have adapted our system to be an affordable, effective and energy efficient, stand-alone unit, which can be used to separate a wide variety of materials. Our customers have been extremely impressed with the results and can quickly calculate the return on investment, and as a result we are now busy working with worldwide clients to schedule in further installations. Impact is sure that once operators are hit by the increase in landfill tax the demand for the ZCU will increase even further."

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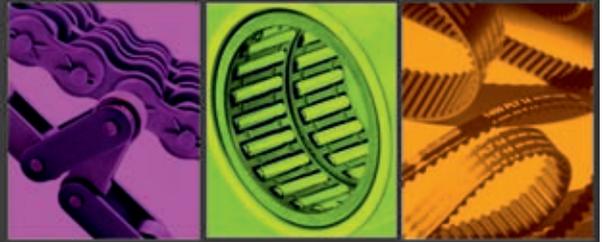
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PTS Demolition's MC 100 R EVO mobile jaw crusher from Kleemann working on site. The team is impressed with the performance and economy of the plant.



## Flexible, mobile, powerful and economical Kleemann MC 100 R EVO jaw crusher sold to PTS Demolition

**The new Kleemann MC100R EVO jaw crusher is a true all-rounder: It crushes demolition material, asphalt, brick and natural stone. This compact machine is easily transportable and ready to work with minimum setup time. The MC100R EVO has been in operation for a few weeks at PTS Demolition & Dismantling Ltd. The demolition and recycling company with its head office in County Durham has already used the crusher on various construction sites and is impressed with the advanced diesel-electric drive technology, build quality and the economy of the plant.**

Managing Director, Dave Gauja, was looking for a mobile jaw crusher for his diverse demolition and recycling work. Up to now he had used crushers from other brands, but never a Kleemann plant. So why now? "A typical job for us involves crushing around 1500 m<sup>3</sup> in 2-3 days. Then it is on to the next construction site. We therefore needed a machine that is easy to transport." The MC100R EVO optimally satisfies this requirement. "Transportation is made considerably easy with the plant's compact design", adds Dave Gauja.

### **CFS and large crusher jaws**

The key features of the machine are the Continuous Feed System (CFS). This control always adapts the frequencies of the feeder pan to the current feed level within the jaw, thus resulting in high production capacity and consistent material shape. The longer, high-raised articulated swing jaw is also proving a big hit at PTS Demolition. It allows oversized material to be processed in the crusher, prevents blockages and protects the securing elements of the crusher jaw against wear. "Last but not least the ability to hydraulically adjust the jaw whilst in operation and excellent clearance to the main conveyor belt can facilitate minimum downtime if a piece of reinforced concrete or foreign material gets wedged", states Dave Gauja.

### **Large project: Recycling of A1**

In the coming months the MC100R EVO will be deployed to the A1 in the north of England for the demolition of 5 bridges, various buildings and petrol stations. "We will tackle this material with our new Kleemann jaw crusher. The crushed material will then be incorporated as sub base in the new construction." Moreover, the work can also be completed in the dark as the machine is equipped with halogen lighting, powered by the on-board generator. The machine has a full dust suppression system to reduce dust in residential and business areas.

### **Impressive reduction of fuel consumption**

A real highlight is the fuel efficiency provided by the diesel-electric operation of the machine. "In this performance class the consumption is typically around 25-30 litres of diesel per hour for a diesel-hydraulic operated machine. "Up to now we have been operating the Kleemann plant using approximately 7.5 litres of diesel per hour. This is fantastic", delights Dave Gauja, "reducing their fuel costs by up to 70%".

### **Unmatched customer service**

Last but not least, the quality of the customer service also played a role in the decision to purchase. "We are constantly hearing from existing customers that the service provided by Wirtgen Limited is second to none and that the company provides a fast, reliable service with regard to spare and wear parts", states Dave Gauja "an advantage we will certainly appreciate later on when it comes to the fast delivery of wear parts."

For more information please contact:

Rob Coward - Sales Manager North (Kleemann)  
Wirtgen Limited  
Mob: 07766 477829

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# New Doppstadt shredder improves the process for Neath Port Talbot Recycling Ltd.

**Blue Machinery has recently sold a Doppstadt DW306 Ceron Shredder with removable extra fine comb basket to Neath Port Talbot Recycling Ltd who are based at Port Talbot, Wales.**

The original plant has been operating since 2001 and currently processes 100,000 tonnes/annum of waste from Neath Port Talbot and Bridgend Borough Councils and converts approximately 42,000 tonnes of fuel into SRF which goes to the cement industry.

Curbside recycling represents 25,000 tonnes per year, with the company acting as a handling agent for the council, distributing the sorted material out into the markets. The recycling operation deals with plastic, glass, cans, paper and also green waste which is turned into compost.

Chris Roberts - General Manager, commented, "We had a lot of problems getting the waste material from A to B. Bringing the new Doppstadt shredder into the operation has improved the plant considerably as we now process waste much faster than we ever did, which means that the waste is on-site for less time, and we don't suffer the odour problems that we previously had."

Before the Doppstadt arrived an aged German shredder struggled with the work load, however since January 2014 things have changed significantly for the better.

Chris continued, "We looked at three or four machines but the Doppstadt seemed the best in terms of durability in our hostile atmosphere. Back-up service was local, but it wasn't a decision made on price; we didn't go for the cheapest, we made our final decision based on the quality of the machine."

"We had dealt with Blue machinery before as we rented a machine from them for a year, so we have worked together for the last three years. They have also helped us out with temporary hire equipment when we have needed it. We had

problems with our old Trommel last October and again Blue stepped in to help and installed a by-pass conveyor for us. We are now purchasing a new Trommel from them which is being installed in May."

"We can now process 50 tons per hour with the new Doppstadt machine but obviously we have to taper that tonnage down to what an ageing plant can cope with. We have also fitted a different screen, so if we have a problem with our other shredders we can change the screen and although we would get a slower throughput we can take it down to 65mm to the end of the process, which isn't ideal, but would work on a temporary basis and keep the process moving."

## The process

The incoming waste feed is delivered to the reception and is shredded down to 250/300mm with any dirty metal removed and placed in a skip. When the waste is shredded down to 300mm it is then fed via a plate feeder onto conveyors and fed into a trommel which removes all the very fine material out (this is the only material the company landfill). The material then passes under magnets, an eddy current separator and two secondary shredders and is delivered over a wall into one of nine fuel prep tunnels which have a capacity of 220 tonnes each. The material then goes through a drying process which removes all the moisture out of the waste (on average about 32%). Then after an eleven day drying process it comes out of the tunnel and is then shredded down to 30mm. Final distribution is to the cement industry, or alternatively it is baled and shipped overseas to Portugal and Denmark.





## The Doppstadt DW 306 Ceron single-shaft slow speed shredder

The Doppstadt DW 306 Ceron single-shaft static slow speed shredder is capable of high throughput, is ideally suited to most waste shredding applications and is ideal for the most rugged applications where volume reduction at high tonnage is required.

From pre-shredding MSW waste and C&I material, to shredding waste wood and mixed construction waste, the Doppstadt DW 306 Ceron static shredder is capable of excellent volume reduction. The machine features:

- Extremely robust steel construction (with fixing points for the drive unit)
- Quickly replaceable shredding tools
- Easy to access components guarantee maximum performance and a long service life.
- All wear parts are easily accessible for maintenance and are made of wear resistant steel for long life.

The Doppstadt DW 306 Ceron is ready to work within a few minutes and is powered by either DC or a rotary current motor. The Doppstadt shredder is extremely powerful due to the well proven direct drive by planetary gear.

Operation and controls are by a central control panel, with an optional remote control incorporating the most important functions.



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# Design of waste management facilities: the hot potato



**Waste management can suffer from a dirty reputation, leading communities to oppose new waste treatment facilities in their neighbourhoods. Unsurprisingly, most people aren't familiar with the sometimes fascinating activities that take place inside waste management facilities, and are unaware of the vast range of measures taken to minimise any impacts, such as odour and noise.**

Waste management facilities can provide excellent opportunities to engage the public on sustainability issues. Household waste recycling centres in particular are at the coalface of public awareness-raising about the waste hierarchy; whereas other facilities are multi-purpose, bringing together community re-use activities and large-scale waste treatment into one site.

The design and use of a facility therefore plays a significant role in how the public perceives the entire concept of waste;

and crucially affects their willingness to accept new waste treatment technologies and facilities in the future.

### **Competing or complementary agendas**

Considerations in the design of a waste management facility are threefold: the inside (engineering and environmental efficacy); the outside (visual impact and how it blends or contrasts with the local surroundings); and its relationship with the world at large (feedstocks and outputs, including products, by-products and emissions).

Those facilities that achieve excellence in these three aspects are more likely to gain approval by investors and financiers; the local community and elected representatives; and sustainability- or environmentally-minded organisations and individuals. There are many competing agendas to satisfy and it is no small feat to design a facility that meets the approval of everyone. >



Pushing boundaries in waste facility design can lead to stand-out developments, such as Veolia's integrated waste management facility in Southwark, which combines a mechanical biological treatment facility, materials recovery facility, household waste re-use and recycling centre and a 'recycle discovery centre' for schools and community groups to visit.

Veolia's facility previously won the letsrecycle.com Award for Excellence for Innovation in Design of a Waste Management Facility. As well as sympathetic architecture and state-of-the-art technology, the design encompassed sustainability features such as solar panels, green roofs and rainwater harvesting.

Of course not every waste management facility is on such a large scale, and site constraints can prompt innovative design solutions. Wakefield Council's temporary household waste recycling centre in Calder Vale Road, for example, was set up in June 2013 to replace an existing facility which had been closed for refurbishment.

Operating within a number of constraints - the council and its contractor Shanks sought to optimise the site with efficient design and a layout focussed on the waste hierarchy to encourage recycling and reuse. The centre was awarded last year's Award for Excellence in recognition of its efficacy in engaging the public and delivering sustainable resource management within a demanding context.

### **Facilities that engage**

While waste management facilities need to be designed within certain bounds, the creativity of the industry in providing long-term fit-for-purpose infrastructure that is both technically efficient and engaging to the public is accelerating at pace. Planning permission will always be a hurdle, but then we will always need new and improved waste facilities.

It isn't easy to make a typically large waste management facility blend in with its surroundings. Some designers try to minimise the visual impact of a facility on the surrounding landscape, whereas others prefer architectural showcases, demonstrating eco-building techniques from the ground up.

From the inside, the purpose of a waste management facility must fit with the waste hierarchy, and increasingly, with circular economy concepts. It makes environmental and economic sense to maximise the value of recovered materials

- and importantly to publicise achievements - thereby engaging people in the sustainable resource management conversation.

As part of the industry's shift towards circular economy approaches, innovation and stakeholder collaboration are vital in delivering the best possible solutions. Working with waste suppliers to improve feedstock quality; with engineers to change how things are done; or with output off-takers, such as the reprocessing or natural gas industries; provide a context within which waste materials, their products and by-products, are managed with genuinely the best available approaches.



### **Promoting excellence**

Waste management facilities that successfully deliver intelligent design, be it in their engineering, architecture or overall raison d'être provide beacons for the rest of the industry to follow. Awards that recognise excellence in this area help to promote good practice and innovation, and further engage society in the sustainable management of resources.

The Awards for Excellence in Recycling and Waste Management recognise the champions of the sector, and in particular the Design of a Waste Management Facility award is likely to attract a great deal of interest. Not only does winning the award show stakeholders that a project is at the head of its field, but it also encourages the sector to continue pushing the boundaries, innovating and developing solutions that will ultimately deliver a circular economy.

## Access equipment training: what's the best option?



**If it's possible and practicable, wouldn't it make more sense for employers to train their operators on the actual equipment they're going to be using and in the place they're going to be using it?**

Years ago when the first requirements for formal fork truck training became established, operators tended to be trained in 'training schools' which were fine for teaching them the controls of the equipment and how to operate them but in many ways it was like being taught to drive a car in an empty car park. Sure, you will master the controls but, as we all know, that's only a part of learning to drive a car.

What's happened therefore in the fork lift world is that far fewer operators are trained in unfamiliar training centres, instead they're taught on the actual equipment they're going to be using and in their normal place of work. This trend can be easily applied to the access world, and the associated benefits can be a huge advantage to companies who need training on this type of equipment across all sectors.

**The main benefits of on-site training are as follows:**

- **The training is more relevant and operators become more comfortable and competent quicker:** working on-site, delegates should already be aware of any site-specific safety procedures, hazards and restrictions. Operating within these familiar surroundings should help to put them at ease during training

- **The training covers not only the equipment but the place and application they're going to be using it in:** by utilising the regular working environment and equipment, training can be tailored to site-specific tasks and applications. Delegates will be taught the full operating requirements and limitations of their own machine and can practice operating relevant to their own procedures
- **It saves time before, during and after training:** the instructor travels to the delegates rather than the other way round, housekeeping can be kept to a minimum, and following training there is no need for a machine specific familiarisation, as delegates will have been using the company's own equipment throughout
- **It saves money:** employers are not being asked to pay the high overheads of operating a training centre or any additional expenses for delegates, and employees are not taken away from work for any more time than is necessary, so any effect on productivity is kept to a minimum

Of course this approach isn't for everyone. Delegates may be from companies that don't have their own access equipment or there may not be a suitable area in which to train, in which case the training centre may be the most viable, or indeed only option. However, for many of the growing numbers of sites operating this type of equipment (scissor lifts, boom access trucks, mobile scaffolding etc.) there is a strong practical, safety and financial argument for doing it differently.

To find out more about the benefits of on-site training for your access equipment, contact Mentor on 01246 555222 or meet the team at Plantworx on Pavilion stand D7.





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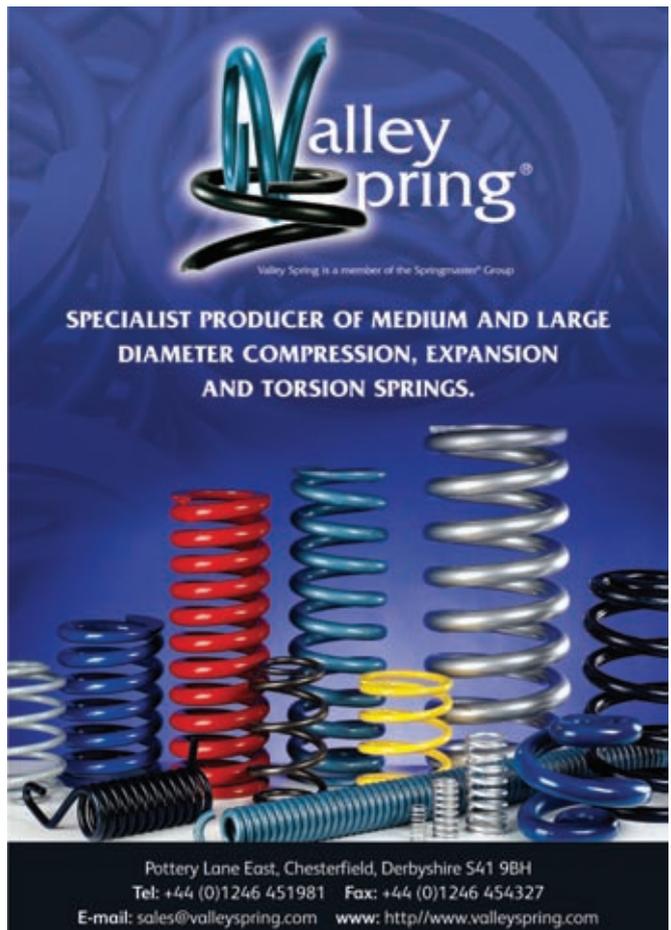
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## Bruce Engineering - Ireland's Official Hardox Wear Parts Centre

**Trading from 1958, Bruce Engineering has always been involved with minerals and materials processing equipment, and with on-going expertise over the years in the quarrying and materials handling industries, wear plate has always been a very important part of the business. The business today is still family owned and run and the emphasis is still firmly on quality from the initial design process right through to final commissioning.**

Reuben Bruce, Managing Director was on hand to give us some history to the business and to Hardox "Bruce have been dealing with Swedish Steel (SSAB) for over 30 years, and we officially became Hardox distributors in the early 90's and then subsequently became one of the first Official Wear Parts Centres in Europe, covering the whole of Ireland, North and South. It was really important to SSAB that they chose partners who were handling Hardox on a very regular basis and knew how to work the product correctly, so we were one of the companies given the accreditation."

In order to continue to grow the Bruce & Hardox Brand in Ireland we now have a Sales Manager to cover demand right through Ireland which will allow us to improve our customer service and expand the Hardox offering.

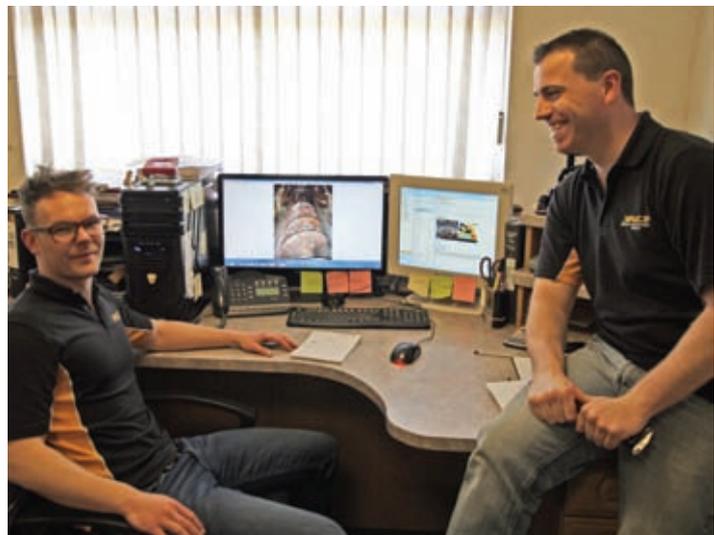
Located centrally in Ireland with expansive storage and handling facilities, we are a very self-sufficient business, and all cutting, folding, bending, and machining all done in-house. All of our Hardox wear plate is cut underwater using an underwater plasma cutting machine, this means that we can cut the Hardox Wear Plate precisely and without effecting the properties of the material, so avoiding soft-spots in essence, and keeping the correct plate hardness throughout. We are currently covering all grades of Hardox 400, 450, 500 & 600.

We have recently invested in a new CNC machine and upgraded one of our profilers to be more interactive, along with a new software system that allows us to link the CNC up to the simulation development process, becoming much more effective."

With a team of 30 people, Bruce have a very proactive attitude to business and can handle projects of all sizes and complexity, as everything is designed on a bespoke basis for each client. With a team of Project Engineers, they can visit a client's site to scope any project out quickly and effectively, and then supply the client with a full proposal. With Cad and other intricate 3D software, drawings can be prepared efficiently, precisely and help solve the client's problems. >



Reuben Bruce, Managing Director of Bruce Engineering



Head Design Engineer with Project & Design Engineer



A family run business with an ethos of quality



Recent investment has been in a new CNC machine



With all of their clients they keep detailed drawings and records for all parts, making the re-order process easy and effective for wear plate parts.

Reuben values his team and training is very important on the Hardox side "With all new employees, we always make sure that they visit the mill in Sweden, to understand how the steel is made and the processes involved. There is nothing more inspiring than actually seeing it being made and the Swedish ethic is all about quality.

Since its introduction in 1974 the Hardox range has grown inexorably with many more grades and thicknesses now available, without sacrificing its all-important strength and toughness. Originally intended as a wear plate, Hardox is tough enough to double as a load carrier in many applications. It allows for the design of structures requiring wear resistance to be strong and lightweight at the same time. It helps by reducing wear problems and in turn reducing operational costs and improving productivity. Hardox comes in a wide range of grades and dimensions to suit each particular application.

The Facts of Hardness - What is hardness really? Yield strength, tensile strength or hardness - whatever we call it, we know that this is the property that keeps the structure in shape without any deformation. Hardox is built to take a beating - Rocks, sand, coal, minerals, scrap metal and many other hostile materials have a hard time making a lasting impact on Hardox wear plates. Hardness is the property that provides excellent wear protection during the entire service life of a Hardox wear plate. Hardness minimizes wear since it is difficult for the 'edges' of other abrasive material to cut into the hard surface, and the hardness does not conflict with Hardox's structural performance.

Welding - Hardox requires low preheating thanks to the low carbon equivalent. The plate flatness and narrow tolerances facilitates automatic welding and shortens preparation time for fit up and tracking. You also get very good HAZ properties due to the high toughness and low levels of steel impurities.

Bending - The steel quality and surface finish make a tight bending radius possible, especially when bending thinner plates. The consistent properties and the close thickness tolerances ensure very high precision bending results.

Cutting - The extraordinary cutting characteristics derive from the narrow tolerances, the low levels of steel impurities and well-balanced chemical composition.

Machining - Hardox wear plates are easy to machine. The uniform properties and the consistency between plates give predictable results for machining operations.

Bruce sets themselves apart from similar manufacturing companies with their ability to see projects through with a face from the owner along the process. Bruce pride themselves in being able to complete projects from the design process, no matter how bespoke, through to the manufacturing, installation & commissioning stages. With an excellent track record of robust, high quality equipment Bruce stand by all their products guaranteeing they do exactly what they say they will do.



Hardox wear plate is cut underwater using an underwater plasma cutting machine



All customers are top priority and they spend time with customers once the machine is installed to monitor its performance and ensure the customer is gaining maximum productivity and efficiency from the machine. With dealers in various parts of the world and our highly skilled and experienced engineers and service team, Bruce ensures the best quality of service and workmanship.

Bruce have a large part of the business that is dedicated to designing and producing high quality sand and aggregate washing equipment, plants and technologies and they use the Hardox wear plate in many different parts of the build. The new Washpod also contains a lot of Hardox product making it very substantial in its robust build and hard wearing qualities. With space at a premium and an increase in demand to produce quality, concrete aggregates, many producers are turning to washing secondary, recycled materials to manufacture sized gravel and sand products. The WashPod is suitable for Washing any recycled materials and with Hardox wear parts it ensures downtime is too a minimum and profit is maximised. The WashPod is suitable for Sand & Gravel, Aggregate, Road Sweepings, C&D, Crushed Rock, Utilities Waste, Railway Ballast, Drainage Medium, Soil Tailings and Contaminated Soils. They have recently installed their first machine in Scotland which has been highly successful for them.

For more information on Bruce Engineering visit [www.bruce-eng.co.uk](http://www.bruce-eng.co.uk) or call Caroline Slane on 028 8676 3684.

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The package price is £995 for 12mths and includes an enhanced entry for 12 months, homepage mini banner on the HUB website for 12 months, and lower email side banner for 3 months. All prices exclude VAT. Usual combined price would be £2,270. Package promotion applies to brand new enhanced entries only.

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# New Heavy Duty Sieve Shaker EFL300



The new EFL 300 combines the best features of the EFL2 whilst incorporating modern sieve shaker technology. It is still extremely robust but lightweight and more powerful than its predecessor. Heavier and larger samples can be sieved with the new EFL 300.

It is extremely versatile. Amplitude setting is now standard. The heavy electric motor is replaced by the electromagnetic system found in all modern sieve shakers. Its lighter form means that it can be either floor standing or even bench mounted making it suitable for the both laboratory and industrial environments. Sieving parameters are set by the remote control unit. Its functions are logical and very simple to operate.

**Advantages**

- New electromagnetic drive for EFL 300
- Adjustable amplitude
- Floor or table mounted
- Suitable for wet or dry sieving
- Digital controls for easy and reliable operation via external interface
- Economical

Range:	20 µm to 125 mm
Drive / sieving motion:	electromagnetic 3D
Max. batch / feed capacity:	6 kg
Max. number of sieves:	6 full height / 12 half height (300 mm sieves)
Amplitude(*):	0 - 2 mm//digital setting in 10 steps
Speed:	3,000 min-1 at 50 Hz
Time display:	digital, 0:10-99:55 min (external unit)
Suitable for dry sieving:	yes
Suitable for wet sieving:	yes
Sieve diameter:	(100 / 150 / 200) 250 / 300 / 315 / mm 8" / 12"
Max. height of sieve stack:	450 mm
Clamping devices quick-release clamping system (included)	

Model:	floor or benchtop
Protection code:	IP 54
Electrical supply:	different voltages available
Power connection:	1- Phase
D x H :	427 mm x 240 mm (without clamping unit)
Net weight:	~ 45 kg
Standards:	CE
(*) depending on load	

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## New Sieving Machine Air Sizer 200



### For most efficient particle sizing in the micron range

The new Air Sizer 200 is ideal for sieving very fine dry particles, which require efficient dispersion and desagglomeration via air jet technology (e.g. electrostatic material). It is also the perfect instrument to quickly provide a sieve cut of powdered materials. Most sieving operations on the Air Sizer take only a matter of minutes. Useful functions including the ability to regulate the level of vacuum, and constant or timed operation help to achieve optimum performance. The Air Sizer 200 is easy to use, extremely efficient and provides accurate and reproducible results.

The new sieving machine Air Sizer 200 is available as of September 2014.

### NEW FEATURES:

- Advanced air jet technology for fine particles, usable for dry material 20 µm upwards
- Digital controls for easy and reliable operation
- Suitable for 203 mm (8") and 200 mm premium air-jet sieves
- Adjustable nozzle speed, 5 - 55 rpm
- Pre filter unit & vacuum cleaner available as accessories
- Ideal for fine electrostatic powders
- Maintenance-free
- Voltage-independent

[www.endecotts.com/products/sieve-shakers/air-sizer-200/product-specifications/](http://www.endecotts.com/products/sieve-shakers/air-sizer-200/product-specifications/)

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# MG Industries launch Lorbrand Composite Rollers that have been developed using the latest modern polymer technology



**Lorbrand have used their vast experience and product expertise to develop the Lorbrand Composite Roller using the latest modern polymer technology. The new rollers have various advantages over steel rollers, delivering operational and cost efficiencies to the end user.**

### **Safety Features**

The new composite rollers are up to 60% lighter than steel rollers. The reduced weight makes them easier to lift and manoeuvre minimising the likelihood of pinch point injuries. The material also ensures that the rollers are suitable for underground application due to their Fire Resistance and Anti-Static Compliance.

### **Operational Benefits**

The new composite rollers last up to 5 times longer than steel alternatives, which can give a much greater return on investment, maximising conveyor uptime and lower maintenance costs. With the Ave 10db sound reduction and reduced power requirements, these rollers help end users to improve their overall conveyor performance.

### **Financial Savings**

Suitable for a range of industries, the Lorbrand Composite Rollers deliver various cost savings. The combined safety and operational benefits help the end user achieve extensive cost savings in the following areas:

- Maintenance
- Conveyor downtime and damage
- Labour costs
- Work related injuries
- Power usage
- Conveyor spares

The following table summarises the benefits over steel rollers:

Problem/Issue	Result	Lorbrand Solution
Corrosion	Exposed steel continually oxidises. Rust on rollers cause premature failure, resulting in costly downtime and under utilised or idle components.	Composite materials designed specifically to cope with corrosive environments.
Abrasion	Abrasive materials along with corrosive actions cause premature wear and failure of the shell.	Composite material range designed to offer superior abrasion resistance to steel and other composite materials (Sand/slurry tests).
Weight	Increased on site injuries, high worker compensation claims. Increased fatigue as a result of lifting heavier steel rollers.	Up to 60% weight reduction over comparable steel rollers. Ability to safely carry multiple rollers. No specific equipment required for larger roller installations.
Performance	Poor quality rollers fail prematurely causing costly replacements and conveyor downtime.	Quality roller and component design ensures optimal performance.
Safety	Work related injuries as a result of heavy lifting.	Composite material makes overall weight lower, reducing the risk of injury. Large diameter safety rock shield offers barriers to spillage that will abrade outer bearing housing.
Sealing	Premature roller failure due to ingress of moisture and dust into the bearing.	Sealing arrangements to suit your specific application (moisture/dust). Industry leading seal designs. Independently tested.
Increased Power Requirements	Design requirements increase to handle roller performance design specification (Breakaway mass and Seal Drag). Costs associated with operating a conveyor dramatically increase.	Low breakaway mass and running friction numbers maintained without sacrificing seal/roller performance. Power required to drive system can be reduced by up to 30% per system. Immediate cost savings.
Non Fire Resistance Compliance	Many composite rollers are not Fire Resistant, meaning underground applications cannot take advantage of the benefits associated with composite rollers.	FRAS rollers meets Australian standards for Anti Static and Flame Retardancy use in Underground Mines.
Noise Pollution	Costly citations due to elevated noise emissions. Failing components sound emissions not audible during transmission.	Rollers on average +- 10dB lower than steel rollers. Implies up to 90% quieter than steel. Lower noise emissions allow for improved problem identification.
Toxicity Levels	Fatal results due to inhalation of toxic fumes. Particularly relevant to confined working areas.	Rolls designed using non-toxic composite materials. Independent testing data available.
Chemical Resistance	Premature roller failure due to chemicals attached to the composite material.	The range of products offered by LBC allows for rollers to be used in very specific applications such as sulphuric acid applications (HDPE).
Design Flaws	Composite rollers are dimensionally incapable of certain size, length and load operating capabilities. Inconsistency with scale quality rollers (Steel/Other composites).	Proprietary materials offer no design restrictions for length and load requirements. No sections welded together. Standard roller is manufactured to scale roller specifications.

## Manufacturing Standards

Global Manufacturing - ISO 9000  
 Water Ingress Testing SANS 1313-3 2012  
 Dust Ingress Testing SANS 1313-3 2012  
 TIR SANS 1313-3 2012  
 Breakaway Mass SANS 1313 -3 2012  
 Running Friction SANS 1313 -3 2012  
 Fire Resistance AS/NZS Standard:  
 AS1334. 10 - 1994/MDG3608 - 2012  
 Anti-Static AS/NZS Standard:  
 AS1334.9-1982/MDG3608 - 2012  
 Acoustic Testing - KRD2005GA  
 Toxicity Testing - SANS 10177 Part 9

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## Materials Available

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 High Density Polyethelene

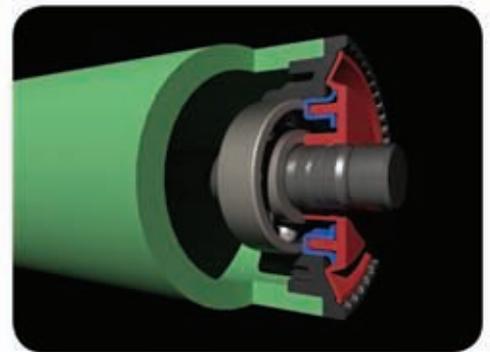
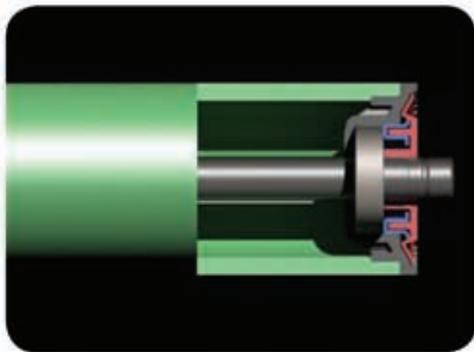
For more information contact MG Industries on 01226 715 400 or [office@mg-ind.com](mailto:office@mg-ind.com). Further details can be found online at <http://www.mg-ind.com/products/lorbrand-composite-rollers.html>

## Bulk Handling Solutions

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We are pleased to announce the launch of **Lorbrand Composite Rollers** which have been developed using the latest modern polymer technology.



### Operational Benefits

- Up to 5 times longer operational life than steel rollers.
- Substantial reduction in system power requirements.
- Ave 10db drop in sound emissions than steel rollers.
- Longevity of rollers will maximise conveyor uptime and productivity.

### Financial Benefits

- Reduction in conveyor damage and downtime.
- Reduction in labour costs.
- Electricity usage savings.
- Reduced noise output.
- Reduction in work related injuries.

### Safety Benefits

- Weight reduction of up to 60% compared to a steel roller.
- The lighter weight makes construction simpler and quicker.
- Fire Resistance and Anti - Static Compliance for use in underground applications.
- Smart design reduces heat build up and friction.



## RUD BULKOS Apron Conveyor Systems for Bulk Materials Handling

**RUD Chains Ltd is one of the world's largest manufacturers of round steel chains, producing top quality chain components and systems for a wide variety of markets and applications.**

RUD's conveyor and drive systems offers a range of product solutions to the bulk materials industry, they design, fit and manufacture complete conveyor and drive systems, such as bucket elevators and chain conveyors for bulk materials handling.

The transportation of bulk materials is a major challenge to ensure the availability of building materials when they are needed. System availability and reliability are often overlooked and quick solutions are used which only secures limited success. RUD has a wide range of experience across conveyor industries for fertilizer, potash, salt and cement to name a few.

RUD's conveyor and conveying systems for the bulk materials industry includes: scraper conveyors; drag chain conveyors, screw conveyors and apron feeders.

BULKOS Apron conveyors use round steel link chain as a pulling element which is driven by pocket wheels. The apron conveyor possesses many advantages, its robust simple construction to its lower construction height due to smaller diameter wheels. The round link chain system used is self-cleaning and works well in wet, corrosive and dirty environments. RUD Apron feeders are ideal for the transport of bulk and unit bulk loads in applications such as power stations, recycling and construction.

The Apron conveyor has been used across a range of market segments from mining, iron and steel works, tunnel construction, quarrying, recycling and the cement industry to name a few. For standard or bespoke solutions from design, project management to installation or service, RUD can offer a solution.



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Looking Forward

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## Features:

- ▶ On board After Screen delivering a single sized product removing the need for a second machine.
- ▶ After Screen system can be removed quickly allowing the operator to use as a standard unit, giving the operator versatility depending on the application.
- ▶ Automatic variable speed VGF ensures continuous choke feeding of the crushing chamber for optimal productivity.
- ▶ High powered hydrostatic drive ensures precise chamber control and reverse functionality for clearing blockages and assisting in demolition and recycling applications.
- ▶ Hydraulic assisted closed side setting adjustment minimises downtime and offers quick adjustment.



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# J-1170AS

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