

January 2019 | Issue 54

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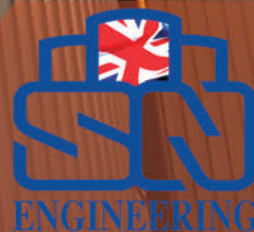
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Welcome to our first edition of 2019

With festive celebrations now over all eyes look toward a new exciting year.

First on the horizon will be the mighty bauma show. Held in Munich, Germany this is the largest machinery construction trade fair in the world and is held over 7 days from April 8-14.

This is followed in the UK by Plantworx in June who are holding their event in a new location at the East of England Arena in Peterborough over 3 days from June 11-13.

The recycling industry is also well served by two shows, the annual RWM at the NEC from September 11-12 and a brand new 2-day show at Stoneleigh – Letsrecycle live on May 22-23.

We shall of course be present at all these shows and as media partners with bauma and Letsrecycle we shall be covering all in detail.

Our 2019 editorial feature list is now available if you haven't already received it please give us a shout!

Finally, the HUB team wish all a very prosperous 2019...

John Edwards

Editor



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A new chapter for Finlay Crushers and Screeners in the UK Market



Sean Warburton - Molson Finlay MD

Following the acquisition of the Finlay Group by the Molson Group in June 2018 the Finlay Group has recently been rebranded to Molson Finlay. As part of the re-branding exercise Aggregate Processing

Solutions (APS) previously a Finlay Group company, will become Molson Washing.

The decision to rebrand followed a frantic 2018 which saw significant growth throughout the Molson Group. The objective of the re-brand exercise is to align the individual organisations under the Molson brand and provide a clear proposition of all the Groups abilities, whilst still maintaining each unique business's identity and explaining their focus.

The HUB team went along to interview Sean Warburton - Molson Finlay MD to talk in detail of the plans he has for Molson Finlay.

Sean has had a very successful career with several industry market leaders in the role of MD. In his current position he runs three businesses – Molson Finlay, Finlay Hire Ltd and Molson Washing.

Sean, commented, "This marks the start of a new chapter for Finlay crushers and screeners in the UK market. Since the acquisition there has been a real uplift in performance by the whole team. Not only does this mean a new name for us, allowing us to highlight the other product ranges to our customers through the wider Group, we also benefit from shared resource within the Group, allowing us to offer a better experience for our customers in all aspects."



Investment in the rebranding:

Sean, continued, "The rebranding has given us massive growth potential and with a key focus on investment in staff and business infrastructure, our team of 37 salesmen will be able to function efficiently and present our multi-product portfolio to

our client base providing us with huge opportunities, in short it's all about customer satisfaction."

Investment has been considerable in the form of new premises which will open in February in Stone. Still located in the Staffordshire area, the new offices will not only provide a more modern and practical services, but also fulfil our immediate growth plans.

We have a new a back-office infrastructure coming on-line which includes two completely new IT systems; one of which will be a £1 million intermediary system for the group which is currently being installed at Molson Equipment."

Sean also told us about the huge focus on telematics



in the form of Terex T-Link which he saw as a huge refinement for operators to enable them to get the best out of their fleet. He added that this would be an added benefit for Molson Finlay clients which with Molson dedicated monitoring staff it would be a huge plus for clients on a day-to-day basis.

As the sole Terex Finlay dealer in England and Wales it is important that Sean and his team tap into the Molson brand as this is of prime importance.

Sean, commented, "We are forecasting more than 45% increase in sales which for us in real terms over 140 units in 2019. As far as the group is concerned this will provide circa £30 million contribution towards group turnover."

Molson Finlay are also the biggest Terex Finlay dealer in the world and recently placed an order with the factory for over 140 machines which for Molson Finlay is the largest single order they have placed and increases their machine purchases by over 45%. In terms of the Irish factory this also represents the largest single order in the history of the company.

Sean, commented, "There is a current shortage of stock machines on the ground so what we are trying to do is place machines on the ground with this large order. We are selling as fast as they are delivered and utilising our 360-degree relationship with our clients



is proving very successful. Additionally, our salesmen also introduce one of our specialists to the client making it a very smooth process.

The most popular machines currently are the 683/694/883+ screeners and the J-1170 crusher with Impactors making a come-back in the industry."

Finlay Hire:

Although Sean manages all three businesses Finlay Hire will retain the branding it currently uses to signify a clear separation as a business that is not designed to compete with customers but offers a short-term solution to alleviate any customer production problems.

Molson Washing:

Molson Washing which was formerly APS will lead the market in the design and build of aggregate washing systems and represents a portfolio of world leading brands.

Sean commented, "We are currently in the development stage of a new washing concept which we have designed and patented which is very exciting. It is a portable concept that is easily assembled and can be processing in a short time frame which will create more opportunities for our customers and Molson Washing."

With an open day planned for 2019 and several high-profile industry exhibitions it is clear that Molson Finlay are a company to watch.

WHATEVER THE MATERIAL WHATEVER THE REQUIREMENT...



Molson Finlay offer a range of mobile crushers and screens to suit many applications and requirements. So, whether granite or compost, primary or secondary, small or large, inclined or horizontal, 3 or 4 way, Jaw, Impactor or Cone, Molson Finlay is sure to have a solution. If you would like more information on the Molson Finlay product range then please call Molson Finlay on 01785 282323 or email us on enquiries@molsonfinlay.co.uk

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MOLSON
Finlay



Superior Industries to significantly increase footprint at Bauma 2019

Superior Industries Inc., an American-based manufacturer and global supplier of bulk material processing and handling systems, says its presence at bauma 2019 will be three-times larger than previous editions of the world's largest trade show. Today, the builder of crushing, screening, washing and conveying equipment unveiled its display plans.

Inside Hall B2 at stand 107, Superior plans to showcase its brand new Alliance™ Low Water Washer. The one-of-a-kind technology allows crushing operators to wash fines within their crushing circuit. It saves from transporting the fines to a separate wash site, which requires costly trucks and harmful re-handling of the material.

Available for production rates of 90 – 272 MTPH (100-300 TPH), the Alliance Low Water Washer accepts a dry feed from the crushing circuit. An agitator converts the material to a slurry before an integrated dewatering screen removes excess water, leaving as little as 8% moisture in the discharged manufactured sand. Superior says existing units have required as little 45-90 m3/hour of water (200-400 GPM), depending on production rates. That's significantly less water consumption than a traditional screw or cyclone.

In addition to wet processing equipment, Superior is planning to showcase a group of conveyor components. Included in this display are:

- Chevron® Pulley: Invented at Superior in 2007, this unique v-shaped wing pulley deflects oncoming rocks and other

material, which prevents it from trapping between the pulley's wings. No rocks in your pulleys means longer lasting conveyor belts and pulleys.

- Moxie® Roll: Made from a composite blend, this steel alternative idler sheds sticky material to maintain properly tracked conveyor belts. The rolls are 50% lighter and at least three times quieter than steel.
- High Performance DT Idler: For improved performance in high capacity applications, the double tube (DT) design features inner and outer tube construction for increased rigidity and better bearing insulation.
- Exterra® SFL Dual Belt Cleaner: This one-of-a-kind conveyor belt cleaning solution is a primary and secondary scraper sharing one mounting pole. This allows for quick, uncomplicated installation. Tension is set just once – at installation – and automatically maintained for the life of the blade.

In addition to these products, Superior plans to showcase videos and presentations of all its products including crushing, screening, washing and conveying equipment for bulk processing and handling of materials in quarries, mines, and marine and rail terminals. A dozen product and applications experts will be available throughout the duration of the bauma.



“Together. Now & Tomorrow.”: Liebherr at Bauma 2019

- Innovative Liebherr construction machines on the outdoor terrain at stand 809-813
- Liebherr components in hall A4, stand 326
- Liebherr attachment tools in hall B5, stand 439
- Technological highlights of today, innovations of tomorrow

Biberach an der Ri , Germany, 20 December 2018 - From 8-14 April, Liebherr will give attendees of Bauma 2019 a unique chance to experience its latest innovations first-hand, which range from construction machines, material handling, mining and components. Visitors can look forward to seeing many new technologies and other practical innovations at Liebherr's 14,000 m2 outdoor stand (809-813) and its indoor stand in hall A4, number 326.

At Bauma 2019, Liebherr will present all the latest product developments and innovations from across the whole range of construction machines, material handling and mining, as well as components. The Group is confident that these innovations, along with its improved sales and service network, will lead to further growth. This is also reflected in the current demand for the Group's products and services.

According to prognoses for the current business year, the Liebherr Group will once again increase revenues, even surpassing the €10 billion-euro mark for the first time in the company's history. Drivers for growth in 2018 were construction machines and mining equipment, business areas which grew by around 10 percent in total. The two best-selling divisions, Earthmoving and Mobile Cranes grew once again; the former experienced growth in the high single digits and the latter in the double-digit range. The sales increase in the Mining division was even more pronounced thanks to an uptick in the extraction industry. The Tower Cranes and Concrete Technology divisions also experienced growth.

With its overarching message, 'Together. Now & Tomorrow', the Group will give attendees of the trade fair a chance to learn more about its products, innovations and trends in the construction machinery industry. In addition, all the stands will feature many different activities to bring the 'Together. Now & Tomorrow' message to life for attendees.

An overview of Liebherr's Bauma trade fair stands

Construction on Liebherr's stand on Bauma's outdoor terrain in Munich began a full half year before the opening of the world's top trade fair for construction, material handling and mining machines, vehicles and equipment. With over 14,000 m2 of space, the open-air terrain (809-813) will once again provide space for more than 60 exhibits. Among the many products on display will be new innovations and developments in the product categories of tower cranes, mobile and crawler cranes, earthmoving, material handling, deep foundation, concrete technologies and mining.

The Liebherr Group's stand at Bauma 2016.



Liebherr will also present its latest components in hall A4 (stand 326) on a showroom floor of nearly 450 m². Here, the focus will be on condition monitoring and system solutions.

In hall B5 (stand 439), guests can learn more about the latest innovations from Liebherr's extensive attachment tools program.

Visitors can also find out more about internships and entry-level positions with Liebherr at the Career Point on the company's outdoor stand as well as in the ICM Foyer (stand 308). Here, Liebherr will be one of 16 top companies taking part in the THINK BIG! event for schoolchildren.

Technological highlights of today, innovations of tomorrow

For Liebherr, gathering feedback from customers, machine operators and industry insiders is crucial to facing the future together. This makes Bauma a perfect platform. One of the key topics for the future is digitisation, which is now impacting all product areas; in terms of assistance systems or service and training options, for example.

At Bauma 2019, Liebherr will debut a new series of Tower Cranes with fibre ropes which will be available for sale starting in April. This new, high-strength fibre rope is around one-fifth the weight of conventional steel rope, but has four times the lifespan and is much easier to use. Liebherr will also unveil five new mobile cranes at the trade fair. These build on proven technologies to provide better performance, efficiency and flexibility. The construction machine manufacturer will also present a new crawler crane with a load capacity of 300 tonnes. It features innovative assistance systems that increase safety and make it easier to handle.

Starting in January and throughout 2019, Liebherr will be introducing its new generation of earthmoving crawler excavators. During the first phase, seven new models will be

released in the 22 to 45 tonne range. The new, eighth generation crawler excavators guarantee more power, more productivity, increased safety and greater comfort for the operator.

For the new XPower large wheel loader, trade visitors can also look forward to a total package with many smart assistance systems. Features also include the new rear bystander detection and a built-in, sensor-powered tyre-monitoring system. With these and other assistance systems, Liebherr offers total solutions to optimise safety and comfort during everyday wheel loader operation. All these systems are developed by the Liebherr Group so they can be fully integrated into the control systems of the machinery.

In the mining area, visitors will have a chance to experience the power of Ultra-class mining trucks and excavators. A single dashboard makes fleet management easier than ever.

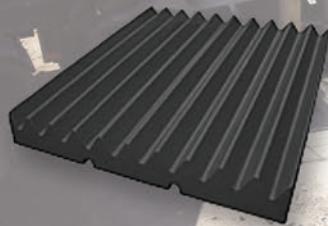
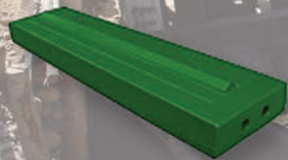
Construction-industry enthusiasts should check out the completely redeveloped 42 M5 XXT automatic concrete pump for the mid-range class. Many technical parts come from Liebherr's own component production. One outstanding product is the new Liebherr Powerbloc drive unit for the pump system. All hydraulic switching and metering elements are fully integrated. This eliminates the need for many hydraulic lines and other parts.

At the fair, Liebherr Components will also reveal the demo version of an app which shows the extensive functionality of all Liebherr's condition monitoring components, from diesel engines to energy storage, hydraulics, transmissions and slewing bearings. In the future, this will enable machine manufacturers to inform fleet managers, service personnel and machine operators about the condition of their components. The Components division will also be presenting a full range of new products.



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TDL Ties Up Europe's Biggest Ever SANY Deal

Back in 2014, TDL Equipment became the official UK partner and distributor for China's largest excavator manufacturer, SANY. Since the launch at PlantWorx in 2015, the SANY brand and reputation has gone from strength to strength amongst owners and operators alike.

Fighting off competition from some of the industries more established brands such as Caterpillar, CASE and Volvo, the £2 million deal is made up of 23 machines and is not only the largest ever SANY order from a European dealer but is the biggest single investment for the new Glasgow based owners, Centre Plant.

Set up 26 years ago by Pat McBride and his father Peter, Centre Plant is the sister company to Allma Construction, a leading infrastructure and groundworks company. The pair boast 80 years experience in the construction industry and with 55 excavators between 13-35 tonne alone, it's fair to say, both TDL and SANY had to meet high expectations.

Centre Plant had a long-established relationship with Case but having heard Allma were looking to replace machines and possibly supplier, Grant MacLaine, TDL's regional sales manager explains how Europe's biggest SANY deal came about, "I contacted Willie McMillan who at the time didn't know much about the SANY products. Initially the discussion was about replacing 12 machines so we offered them a 14 and 21 tonne machine for demo".

Impressed by TDL's presentation, Managing Director, Pat McBride explained how the decision to invest in SANY was made, "We put two of our most experienced operators on the two demo machines, guys who we knew would moan and groan if there were any problems. The feedback was very positive". Who better to provide such positive feedback than experienced operator Donald McCall, Donald put the SANY SY215 demo machine to work giving an all round glowing report emphasizing how the "digging power at full stretch is very impressive" combined with the impressive strength, he explained how "a full bucket of wet mud at a couple metres depth is no both. The machine is a true all round performer, even at low revs".



The SANY quality spoke for itself and following the successful demo period, the order went from 12 machines to 23 machines, ranging from 13 ton to 36 ton featuring 15 SY135's, 7 SY215's and the SY365 due in shortly. The SANY machines have proved their quality time and again with standard spec including automatic air conditioning, two-way auxiliary hydraulics, rotation circuit and the SANY 1-3-5 warranty package provides peace of mind – offering the new owners 1 year/ 2000 hours on the machine itself, 3 years/ 6000 hours on powertrain and major components and 5 years/ 10,000 hours structural warranty on the chassis, boom and arm.

But Centre Plant didn't stop there, their machines come complete with Hill Tefra hydraulic hitches, Strickland buckets, vandal guards, boxing rings and green beacons.

Centre Plant are one of a growing number of SANY customers, with companies such as AB2000, WH Malcom, Garriock Bros and Dow Waste Management investing in the brand. Thanks to the quality and power of the SANY products and the strong aftermarket philosophy from TDL, the team are excited to see the continual progression and growth of the brand as more people begin to break away from the "norm".

For more information on TDL Equipment, please visit the website: www.tdlequipment.com or call the 24/7 hotline on: 08444 99 44 99

McCloskey International's newest products take the stage at AGG1/World of Asphalt

Maneuverability and versatility key attributes of new designs...

AGG1/World of Asphalt visitors will get a first look at McCloskey International's new products that are compact and highly mobile. The newest addition to the stacker range, the All-Terrain ST80T with lift axle, will be front and center, showing off its ability to switch from tracked to wheel in minutes. The latest design for the compact crusher, the I34R, will also be featured at the show in Indianapolis, Indiana February 12-14, 2019 at Booth 37070.

TRACK STACK AND ROLL

The All Terrain ST80T blends all the benefits of onsite track mobility with the high productivity of a radial conveyor. The ST80T has a lift axle option which allows it to switch from track mode to radial in seconds.

Designed for use in any terrain, the All-Terrain stackers, ranging from 60' to 150', are easily moved site to site without the need to remove the wheels for transport. Built-in levelling indicators allow operators to position the stacker regardless of the ground evenness, with independent hydraulic jack legs to stabilize once in place. The McCloskey design also eliminates the need for any additional equipment, delivering a clean radius without material buildup.



All-Terrain ST100T with Lift Axle USA

The stackers feature a unique rear counterweight that counter balances the tracks and wheels, which are behind the stacker's centre of gravity. The design enables a much higher stockpile capacity, with the radial wheels set well back. The rear counterweight also firmly anchors the tail end during radial mode, delivering greater stability to the stacker while in operation.



I34R Ault Equipment



I34R Concrete Recycling UK



Lippmann_LS-520 Triple Deck Screener



McCloskey Washing Systems Compact Sand Plant



ST80T Lift Axle

SMALL FOOTPRINT - BIG RESULTS

AGG1 is also the perfect opportunity for McCloskey International to showcase the I34R compact crusher line as a solution for aggregates producers needing small footprints and manoeuvrability, while having big production requirements. The I34R offers the versatility of a full recirculating system and is suited particularly to applications in aggregates, construction and demolition recycling and asphalt recycling.

COMPACT SAND PLANTS TOP OF MIND FOR MWS

McCloskey Washing Systems (MWS) will be on-site at AGG1/World of Asphalt to present the latest additions to the CSP (Compact Sand Plant) line, which delivers superior separation efficiency, produces the driest, drip-free final washed sand product, and produces up to two in-spec sands, to desired grade, at up to 250 total tph.

LIPPMANN-MILWAUKEE'S NEW PRODUCT RANGE AT AGG1

Located at Booth #36102 at AGG1, Lippmann-Milwaukee is a leading manufacturer of aggregate crushing equipment for processing applications, and a member of the McCloskey group of companies. Since its inception, Lippmann has become synonymous with highly productive and reliable heavy-duty jaw crushers that are built to last. The new product range, tracked and wheeled mobile crushers, screeners and stackers, will be introduced at AGG1, creating a complete product line.

Over the past twelve months McCloskey International has continued to add new

dealers across all regions to represent the number of new products that are added regularly to the company's portfolio. Many of these dealers will be attending AGG1/World of Asphalt 2019, and visitors will be able to connect with them during the show and after.

McCloskey International Limited designs and manufactures innovative crushers, screeners, stacking conveyors and washing systems. Since 1985, McCloskey International has been exceeding expectations with reliable, durable and high performing products. McCloskey equipment is used across industries including aggregate, mining, construction & demolition, waste management & recycling, landscaping and composting to help achieve profitable volumes for customers around the world. For more information on McCloskey visit mccloskeyinternational.com.

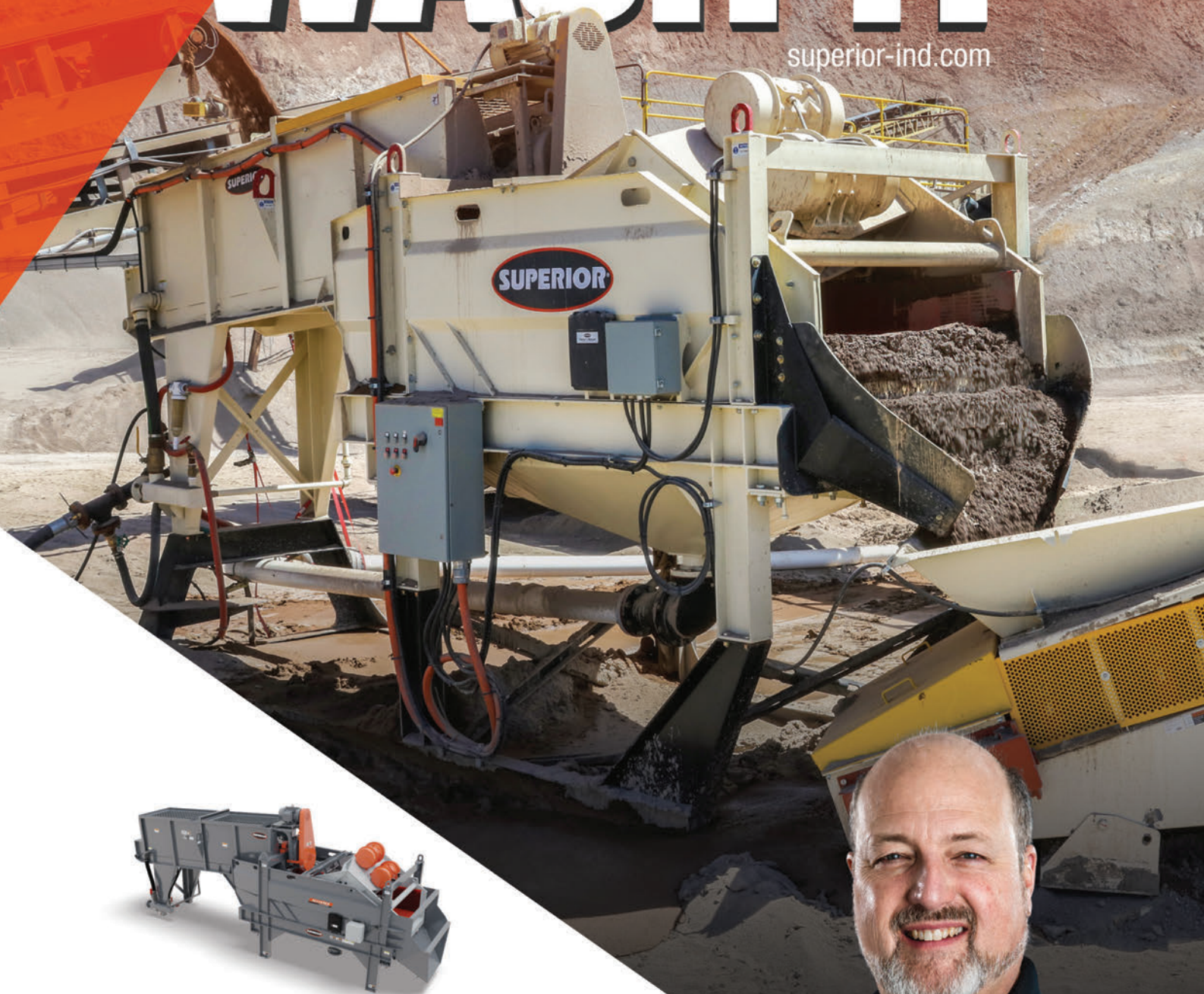
McCloskey Washing Systems (MWS) designs and manufactures a full range of modular, mobile and static washing equipment for the aggregates, waste & recycling, mining and construction & demolition sectors. A division of McCloskey International, McCloskey Washing Systems shares a customer driven approach to product development that has led to the investment in a new centre of excellence, which will complement the existing facilities in the UK, Canada and the USA. For more information and for a full range of washing equipment offered by McCloskey Washing Systems, visit mccloskeywashing.com or you can follow MWS on LinkedIn.



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CRUSHING

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COMPONENTS

PLANTS

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AFTERMARKET



Taylor & Braithwaite announce their next big step in ensuring nationwide aftersales coverage

Taylor & Braithwaite (T&B) directors, Paul Taylor and Ian Burton have joined forces with Steve Corner and Brian Conn to form sister company TBS Plant Ltd (TBS).

The newly formed company will function in the image of T&B, supplying market leading plant and equipment products from some of the world's top manufacturers; Hyundai, Rubble Master, Maximus Crushing & Screening and Pronar, as well as maintaining the high standards of aftersales support put in place by T&B.

TBS have established themselves at Ryhall in Lincolnshire and will be covering the counties South Yorkshire, Derbyshire, Nottinghamshire, Lincolnshire, Leicestershire and Rutland.

Due to growing demand for the equipment supplied by T&B, Paul and Ian saw this as an opportunity to continue the high level of service they offer their customers. The TBS depot in Lincolnshire will allow customers to get the support they require with T&B and TBS now able to offer national aftersales coverage for a number of their customers.

Ian Burton said "the opportunity to create TBS Plant Ltd as our sister company demonstrates the support that we have from the suppliers that we currently partner. It is an exciting

time for T&B as we are able to support TBS and offer them our experience and develop them in our image"

Steve Corner said "both myself and Brian have known Ian & Paul for several years now and in the past have worked very closely with them with different manufacturers. So, when the opportunity arose to set a business up in partnership with these guys it was a very easy decision to make.

What excites us the most is the aftersales potential with T&B and TBS, what has become very clear over the last few years of knowing Paul and Ian is how much they focus on supporting their customers from top to bottom, with myself and Brian being of the same mind set means not only can we offer a national coverage to our customers but the combined knowledge and experience of both T&B and TBS means we can actually back that statement up".

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THE PERFECT PART

SENEBOGEN

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



and Molson Green have also teamed up with major equipment manufacturer Terex as a UK supplier for the Ecotec range of environmental equipment.

AUTHORISED DEALER

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Disc Magnetic Separator for Processing Coltan

Master Magnets has manufactured and despatched a Disc Magnetic Separator to Nigeria for use in the processing of Coltan (a combination of columbite and tantalite). The Magnetic Separator is used in a process to extract primarily Tantalum. Tantalum is a key raw material in the manufacture of batteries for electric cars, mobile phones and other electronic products. Deposits of Coltan have been mined in Central Africa for several decades.



Disc Magnetic Separator in the final stages of manufacture

Master Magnets is one of the world's leading designers and manufacturers of magnetic separators for the mineral processing sector. The company's manufacturing and test facilities are based in Redditch, UK. Over several decades, they have developed an extensive portfolio of high intensity magnetic separator for purifying and concentrating minerals. Laboratory sized versions of many of the designs are found in their Technical Test Facility in the UK.

The Disc Magnetic Separator enables the separation of different minerals with varying levels of magnetic susceptibility. Concentrated fractions of minerals are collected and then further processed.

For this new project, tests were undertaken in the Master Magnet test facility at Redditch, UK. The tests confirmed the level of separation, capacity and the magnetic separator configuration. Once completed, the samples were returned to the client in Nigeria for analysis. On receiving confirmation that the separation matched their processing requirements, an order was placed.

The Design of the Disc Magnetic Separator

The origins of the Disc Magnetic Separator date back to the early 1900s. Although manufacturing techniques have significantly changed, and more advanced machines have now been incorporated, the basic function design remains virtually the same. The Disc Magnetic Separator is widely used to ensure an accurate separation of dry minerals that have varied magnetic susceptibilities.

Typically, a Disc Magnetic Separator features up to three high-intensity electromagnetic discs, each set at a different height from a feed conveyor.

- Disc 1 – This will be set the furthest from the feed material. The objective is to extract only the most magnetically susceptible particles;

- Discs 2 and 3 – The second and third discs are set at lower gaps. This increases the magnetic force at each disc and enables the separation of different grades of magnetic material.

The magnetic intensity can be further adjusted by varying the current of each coil. This allows each Disc Separator to be designed and set-up for an individual mineral ore.

For this latest project, the test work recommended a model MDS3-375 Disc Magnetic Separator. This featured three high-intensity electromagnetic discs, (with six (6) electromagnetic coils) each set at a different height from a 380mm wide feed conveyor.

The tests had determined that the MDS3-375 Disc Magnetic Separator could process between 500 and 600 kg per hour.

Further information on the Disc Magnetic Separator, including a video featuring leading magnetic separation expert Dr Neil Rowson, can be seen in the article 'Technical Video Explanation of the Disc Magnetic Separator'.

Mineral Processing Laboratory

In the Master Magnets test facility, tests are conducted on mineral materials from deposits all over the world. From the tests, it is possible to confirm what separation is possible on what equipment. This then forms the basis of a separation guarantee for any equipment order. The Master Magnets laboratory houses one of the most extensive ranges of high intensity magnetic separation equipment in the world.

High-sided weighbridge designed for heavy industries re-launched by Avery Weigh-Tronix

Avery Weigh-Tronix, one of the world's largest manufacturers and suppliers of industrial weighing solutions and service have re-launched a high-sided weighbridge, specifically designed for heavy industries including quarries.

The new J-Series weighbridge has been recently enhanced to offer additional durability, with a 12mm thick deck plate and increased internal steel work than the company's BridgeMont® weighbridge range. The weighbridge features high sides made of solid steel beams, which guide drivers into the correct position for weighing and prevent vehicles from slipping off the sides of the bridge.

The first installation of the J-Series weighbridge took place at recycling and waste management firm A&M Smith at the company's eco-friendly site in Portlethen, Aberdeenshire.

Since its establishment in 1994, A&M Smith has expanded to become one of Scotland's top recycling and waste management companies; with depots in Aberdeen and Peterhead. The company's continued expansion brought an increase in traffic to the principle site in Bankhead, Portlethen, and when a site upgrade was needed to cope with the additional demand, the company looked to the future to create an impressive, energy efficient site which utilises local, recycled materials.

To maximise the constant flow of vehicles using the facility and minimise the queuing of HGVs and loss of time, A&M Smith optimised the traffic route for the site; moving from one weighbridge controlling both inbound and outbound weight readings, to create separate inbound and outbound weighbridge areas.

When it came to choosing a weighbridge provider, the company were already familiar with Avery Weigh-Tronix, with a BridgeMont® weighbridge installed since 2012 at the Peterhead site, and a J-Series at the Bankhead site which had been in use since 1997! Despite its age, the J-Series bridge



The J-Series weighbridge used for inbound weight readings



A&M Smith HGV weighing out over the new J Series weighbridge

was still extremely reliable, and owner Scott Smith was looking to replicate this performance with his next purchase; "The durability of our existing J-Series weighbridge made Avery Weigh-Tronix the natural choice of supplier for the next one."

Scott and his team purchased a new, Avery Weigh-Tronix J-Series weighbridge to use for controlling inbound weight transactions. As the existing site bridge was still extremely reliable, the company refurbished it to use for outbound readings.

Keeping health and safety in mind, the site's purpose-built office (which combines the operational and administration functions) is situated directly between the inbound and outbound weighbridges, meaning drivers don't need to leave their cab to get a weight reading ticket, which reduces the potential for accidents on site.

The two-day bridge installation was run by the Avery Weigh-Tronix Scottish engineering team, including calibration from one of the Avery Weigh-Tronix test units – part of the UK's largest fleet of test units. As the new weighbridge forms a critical part of A&M Smith's operations, the bridge is supported by BridgeCare Total™ which guarantees 97% uptime thanks to a UK-wide engineer network.

The J Series taking a weight reading of an A&M Smith HGV





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TEREX|FINLAY celebrate '60 years of passion & innovation'

Terex|Finlay celebrated '60 Years of Passion and Innovation', as they welcomed over 300 dealers and customers to commemorate their 60th year in business milestone in Jacksonville, Florida.

The event included a dealer conference and site visit to Duval Asphalt a local asphalt manufacturing and contracting company—followed by two open days at the same site with local dealer, Finlay Eastern.

In total, an impressive line-up of eleven machines across the Terex|Finlay range of crushers, screeners and conveyors were put through their paces, working in a concrete demolition recycling application for dealers and customers to experience. The first factory production units of the fourth-generation 883+ heavy duty screener and the brand new 883+ triple shaft screener were on display and proved to be real show stoppers at the event! Other machines on display included the; J-960, J-1160 and J-1170 (direct drive) jaw crushers. Other Terex|Finlay crushers put through their paces included the C-1545 cone and I-120RS and I-140 impact crushers. The 674 and 684 inclined screens and TC-80 tracked conveyor were also part of the live machine demonstrations.

The Global Dealer Conference concluded on Thursday evening with an awards ceremony and customer appreciation dinner hosted by Terex|Finlay to recognise the hard work, commitment and dedication shown by their dealer network. The categories for the awards included Early Adopters of Innovation, New Dealership Excellence, Rising Star Award, Outstanding Achievement in Business Growth, Outstanding Achievement for Customer Support, Outstanding Achievement for Parts Business Support and Lifetime Contribution Award.



Terex Finlay Award Winners



L-R Paul O'Donnell, Dave Statham, Kieran Hegarty

Finlay Scotland and Molson Finlay both picked up the following awards at the event:

Finlay Scotland (two awards); 'Outstanding Achievement for Customer Support' and 'Early Adopters of Innovation'.

Molson Finlay; 'Outstanding Achievement in Business Growth'.



L-R Paul O'Donnell, Tom McNeill, Kieran Hegarty

In addition to these awards Tom McNeill (Finlay Scotland) and Dave Statham (Molson Finlay) were both presented with 'Lifetime Contribution' awards for their commitment to the development of the Terex|Finlay brand over the past three decades.

Paul O'Donnell, Terex|Finlay Business Line Director commented, "The teamwork across the various functional Terex Finlay teams was impressive and key to the success of the event. Special mention must be made to the Terex|Finlay Aftermarket and Customer support team whose efforts before, during and after the event were critical to the overall success and customer experience. Without their efforts these events just cannot happen."





Your strategic global sourcing partner



L to R: Gary King (Marketing Director), Shaun Edwards (Managing Director), Sarah Carnell (Company Secretary), Matt Cheetham (Sales Director)

Sourcing your products from overseas can be baffling to say the least and in this day and age companies are increasingly reliant on sourcing specific components for machine builds and even complete projects.

Complete Global Supply Chain Management is not overly common in the Quarrying, Recycling and Bulk Handling Industries but ATG has been quietly building a reputation that is second to none in this speciality.

ATG offer a complete financed project and through their international engineering teams who work closely with chosen factories to ensure that ISO processes are fully implemented, guaranteeing all parts meet the required quality standard.

Launched 10 years ATG were one of the first members of the CEA that was not a UK manufacturer and was accepted on the basis of their innovative and totally different business model.

Today ATG, with huge success behind them work with manufacturers of commodities in China, India and South East Asia and supply a range of components, assemblies and sub-assemblies to OEMS in a variety of industries including mining and construction, waste recycling, agriculture, transportation, earth moving, marine and material processing.



Managing risk to give a client the competitive edge:

The HUB team went along to the Nottingham base and sat down with the Group Managing Director – Shaun Edwards to get the lowdown on where the company are now.

Shaun originally worked for a Chinese company who were heavily into the construction industry and with the onslaught of 2008/9 global recession Shaun decided to launch ATG with a more diverse multi-industry offering.

This move proved hugely successful with diverse product lines offered to multiple industries with the parts supplied from China.

Shaun, commented, "As the business grew the managing team increased with it, and today we have 50 employees globally. Last year we experienced a growth of 30% and this year we see more increased growth with a global turnover of \$20 million. Over time we have used our expertise for product-sourcing, and it has proved a key philosophy in the business."

Shaun expanded and told us that although their main supply is currently from China their on-going focus is to further diversify the number of countries that they source the product from.

Shaun, added, "All of our growth is down to the business model which ensures our clients receive a quality product in the time frame they expect.

"Castings on crushers and recycling equipment parts are very complicated and a lot can go wrong as it's a different level of material that is used on these machines. The components are critical, and the key is ensuring is that the material used is within strict tolerance and meets the criteria. This all comes together and then products can be delivered 'fit for purpose' which is achieved by our 'feet on the ground' ensuring a correct process with components supplied to exact specification."

ATG have proved that consistency is the key with 20 engineers covering the far east. Growth was steady and in the first 5 years new teams in India and the South East of Asia worked with factories on castings, fabrications and machine components all of which were checked and despatched including a component check-list.

With logistics, scheduled delivery and finance arranged for the whole shipment 'total' ATG project management eliminates any issues and minimize the risks to the client.



Shaun further commented, "What we have found in the last few years is that customers who have bought direct, are now passing the job to us because of our growing reputation."

With industry demands increasing ATG currently find themselves in a boom period and with forward orders for the whole of 2019 the company are recruiting more staff.

New premises:

Currently looking for bespoke new premises at a second location is high on the agenda for the company and to service the projected growth it needs to be a minimum 25,000 sq. ft facility that will grow with ATG.

Working in China alone involvement is huge with nearly all containers delivered direct to the client. The company have had to understand and deal with components up to 7 tonnes in weight and the new premises must reflect this.

Further on-going development:

Shaun expanded on the future, "We launched ATG USA in 2015 and we have utilised our India manufacturers to supply the US market parts which tend to be bigger, crusher jaws for example to handle more throughput.

We also intend to grow the team in the Far East as these manufacturers are our major asset, therefore for each new product line we will add a team. We have a significant number of welding engineers and we will add production and manufacturing engineers to assist the factories because ultimately these are our suppliers and we are in their hands, so we need to assist them to produce it correctly and quicker and on-time to the cost level we require.

"Ultimately, it's becoming easier as we understand the quality required as the manufacturers now do, which over time has developed a large and friendly knowledgeable team.

"Alongside all of this we have a development plan, auditing, H&S and other key factors and we take clients and show them where the components are manufactured and then they can buy with confidence which adds to our growing reputation."

ATG are also building their team in India to eliminate total dependency on China and although dealing with a different culture it's having a positive effect on the source diversification of the business.

The UK team are also working with manufacturers in Thailand and Malaysia and are despatching a Chinese team to the factory in Malaysia to help them cope in the early stages.

Shaun summarised, "Essentially we have four companies operating, our HQ in the UK, sales in Boston USA and two manufacturing sites based in Zibo in Shangdong Province, China and Bangalore in India and we also have a number of suppliers in Kuala Lumpur so we hope we will eventually be located there."

It looks like a very busy time ahead for ATG as the growing global sourcing specialist.



Qualification by product range:

The current focus in the company are the product lines with the emphasis on castings and forgings, fabrications, precision components, composites and plastics. As 38% of the product lines are castings this heavily underlines the qualification of ATG as a company as these lend themselves to many guarantees with this range - castings, wear plates, shredder teeth, ground engaging teeth.

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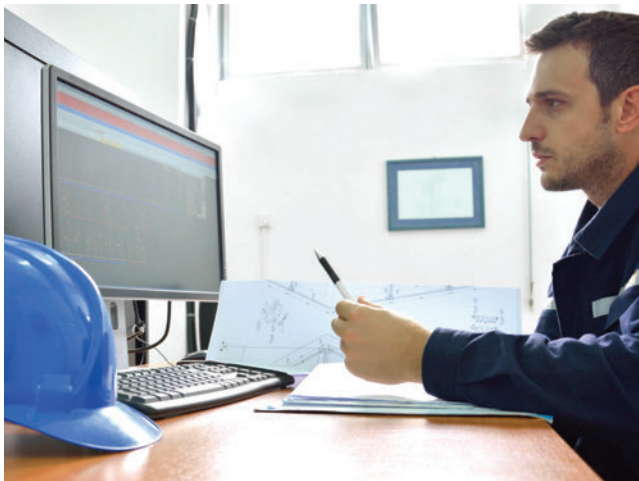
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How often do I need to provide refresher training?



With no specified refresher period set out by law for many items of mobile plant and lifting equipment, including but not limited to Fork Lift Trucks. Choosing the right interval for your business requires a sound understanding of your operational risks and how they influence your training schedules.

Even well-trained and experienced operators need routine monitoring, and, where necessary, retesting or refresher training to combat complacency and ensure they continue to operate equipment safely.



What the definitive guide says:

To find out more, we refer to the only equipment specific Approved Code of Practice L117, the HSE's 'definitive guide' to forklift operator training and safe use. It states:

"There is no specific time period after which you need to provide refresher training or formal assessment. However, you may decide that automatic refresher training or a retest after a set period (for example 3-5 years) is the best way to make sure your employees remain competent. Where you adopt this approach, you will still need to monitor performance in case operators need extra training before the set period ends."

As this is guidance and not law, some misinterpret refresher training (intentionally or unintentionally) as unnecessary. But, it absolutely is and neglecting this fact could come at a heavy cost to your operation's safety, compliance and productivity and whilst the L117 is specifically targeted at the use of fork lift trucks, this guidance should be replicated for other items of operational site equipment. Many of the accrediting bodies will detail an expiry date on their cards and certification, but what about those items of equipment that aren't governed by a set standard?

Why is refresher training important?

Regular refresher training nips bad habits (and the costly accidents that follow) in the bud and ensures operators:

- Maintain good operational habits
- Learn new skills
- Reassess their knowledge, understanding and attitude
- Ensure operators are aware of the latest best practice guidance

Don't just assume it is sufficient to simply implement a regular training interval to cover all eventualities. There are instances where refresher training or retesting might be required sooner, if operators:

- Have not used equipment for some time due to secondment or absence from work
- Only operate the equipment occasionally
- Appear to have developed unsafe working practices
- Have had an accident, or a near miss*
- Have a change to their working practices, environment or equipment

*Remember, in the instance that there has been an accident or a near miss, blanket refresher training is not the right approach. Understanding of accident or near miss causation is vital, this must be identified, and a prescriptive training plan put in place.



Determining your risk

To be truly effective, your refresher training policy should be based on a detailed assessment of your specific operation – including your processes and equipment, how and where it's used, by whom and the associated risks. You may have accredited certification that states an expiry date of 5 years but due to several considered factors you may find that refresher training for your business should be conducted sooner.

Refresher training is a key part of your overall training programme and your commitment to workforce competence.

For further information and support get in touch with the training advisors at Mentor.



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Now's the perfect time to repair and rebuild

MST has been at the forefront of the bespoke new buckets, repairs/refurbishment and undercarriage market for over 45 years. In that time it has seen huge changes in the worldwide quarrying and excavation market. With its years of heritage in the industry, current trading conditions are not unfamiliar.



During current conditions however, MST, which has its headquarters in the North East of England, says it is well placed to deal with the challenges and upcoming uncertainty. A marked increase in the level of customers enquiring about repairing and refurbishing worn out buckets is increasingly apparent, as opposed to replacing them with new ones. They believe there is no coincidence that refurbishments have become increasingly popular in recent times.

Even though MST designs and manufactures some of the largest new buckets and attachments being built in the UK today, MST also has a strong team of bucket repair welders and fabricators lead by bucket manager, Nick Fagandini, who was brought into MST almost thirteen years ago and has been at the forefront of the repairs department development.

He explains "Over 500 repairs go through the MST workshop each year, a number which is increasing year on year. "The MST repair department has gone from strength to strength and the great thing is, MST can repair just about anything; from loader and excavator buckets to grabs, pulverisers, rippers – big or small, new or old, all makes and models. you name it, we've probably repaired it!"

MST Director, Rory Whitehall, explains, "If you've ever had a bucket refurbished by MST, you'll know only the highest quality Swedish steel is used. We do this because we believe in quality, durability and happy customers who appreciate the time and effort we put in to each and every repair."



Rory went on to say, "With years of experience in the repairs department alone you can rest assured you're in safe hands. We listen, advise, consult and deliver solutions to the highest standards."

It's something MST is taking very seriously, making a reduction in tool downtime their priority for its

customers. They provide a full on-site inspection and servicing facility. It's worth noting, MST has the largest stock of loan buckets in the UK. This ensures downtime is at a minimum while we repair your bucket and get it back up and running! MST has also provide a 'weekend service' where necessary for customers in the UK, whereby they will collect the worn bucket on a Friday afternoon and have the fully refurbished bucket back on the machine first thing on a Monday morning.

For more information call 0191 410 5311 or visit www.mstpartsgroup.com/Bucketreconditioning

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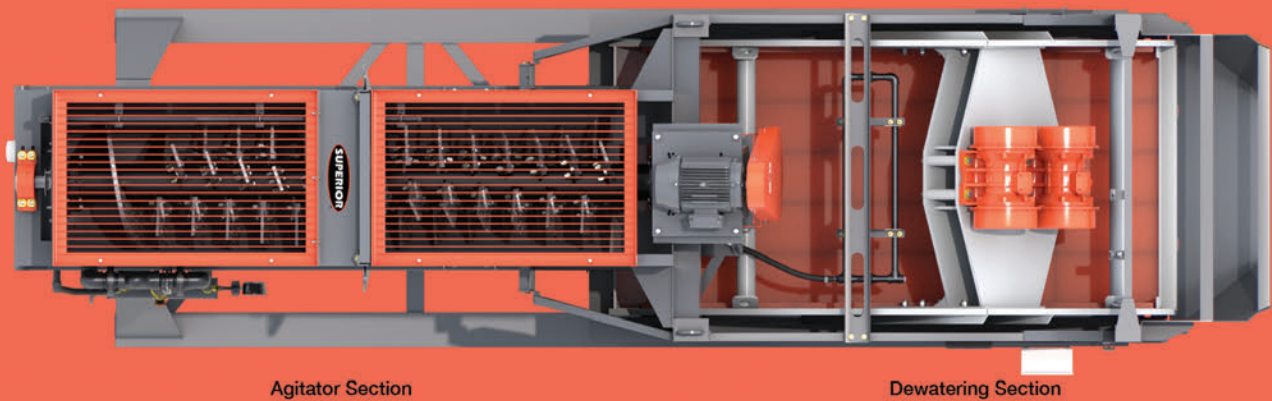
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Superior Industries develops new low-water sand washing solution

A new, field-proven low-water sand washing system from U.S.-based Superior Industries offers a cost-effective, eco-friendly solution to efficient crusher fines management and higher-quality manufactured sand products. As a single-source supplier of aggregate processing equipment, Superior Industries has developed the new Alliance Low Water Washer, which allows the washing and classifying of fines right within the crushing circuit - and provides a cost-efficient alternative to high-water-use washing with cyclones or sand screws.

Cost-effective sand washing

"Versus conventional sand washing methods, the Alliance Low Water Washer is a unique, first-of-its-kind solution that's particularly advantageous to those who operate dry crushing facilities, or portable plants; or operations limited by a smaller footprint or available water resources," says John Bennington, a well-recognized washing and classifying expert who serves as the director of wet processing technologies for Superior Industries.

The new system combines a specially-designed agitator and a dewatering screen within one machine. Allowing operation on a small footprint, crusher dust is processed within the crushing circuit, eliminating the cost of handling and hauling the fines to a separate washing site. Importantly, he says that the system accepts a dry feed directly from the crushing circuit and processes the material into a higher-value manufactured sand, while requiring significantly less water consumption.

With an increasing demand for manufactured sand throughout Europe, Bennington says that many operations have typically turned to cyclone dewatering plants. "Consider that the water requirement for a 200-MTPH-capacity cyclone dewatering plant will run between 450 to 600 m³/hr. The cost of using that much water, along with stringent environmental regulations,

makes the use of a cyclone plant or sand screw increasingly prohibitive," he says.



Efficient fines management

Since washing crusher fines with a cyclone or sand screw typically requires the transfer of material from a crushing circuit to a separate washing circuit, some operations stockpile material to be washed. When necessary, material is hauled to the wash plant, with the multiple handling of material resulting in higher operating costs per tonne.

The Alliance Low Water Washer, says Bennington, provides efficient fines management. Its agitator section is positioned at the front end of the screen where water is added to the dry feed and mixed, producing a thick slurry. The

agitator is equipped with a spray bar along about half the length of the agitator shaft for thorough cleaning. The slurry is fed to a robust dewatering screen that is outfitted with a series of spray bars that help to push the -75 micron material down through the screen. "Using a sand screw requires lifting the silt over the weirs of the screw with high water usage. Alternatively, when the Alliance Low Water Washer pushes the material down through the screen, much less water is needed," he says.



Depleted natural sand reserves and environmental constraints are driving a fast-growing demand for high-quality manufactured sand and cost-efficient crusher fines management. "With the Alliance Low Water Washer, some operations have cut water usage by 80-percent, while eliminating additional material handling," says Bennington.

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Sandvik Mining and Rock Technology hold a customer day at Marshalls Howley Park Quarry



Sandvik Mining and Rock Technology held a customer day with the assistance of Marshalls Natural Stone. The event was to allow influential people from aggregates companies to learn about and explore an entirely Sandvik designed and manufactured aggregates plant. The event was held at the Village Inn, Tingley, West Yorkshire and at Marshalls Howley Park Quarry where the cutting-edge solution has been installed.

It was organised by Mark Bodell, Stationary Crushing and Screening Sales Manager for England and Wales and supported by senior Sandvik personnel from across Europe.

Although Sandvik have sold installations like the one at Howley Park for over two decades around the world, this marks a significant step forward for the UK market, where in the past Sandvik were known for selling high quality, major components and ancillaries for fixed plant to now being able to offer a fully designed, manufactured and installed plant including electrical and civils if required.

The customer day was designed to highlight not only Sandvik's capabilities in design, manufacturing and installation but the partnership approach with customers to fulfil their requirements.

After introductions and a safety brief regarding the quarry visit, the event began with a short presentation on the three distinct approaches Sandvik can now offer their UK customer base for fixed plants from their Plant Solutions department. These are FastPlant™, SmartPlant™ and CustomPlant™ the latter being the approach taken for Marshalls, a fully bespoke and individual designed installation.



The group of 60 people split into two. One group left for the nearby Howley Park Quarry and the customers remaining were given the opportunity to view the plant in full virtual reality which had been set up for the event. As Sandvik use the latest 3D modelling as plant design this allows the customer to view the plant prior to manufacturing and check over details like access, how components can be maintained and how a loading shovel will work around stockpiles under conveyors. This 3D plan is also what is used on site to install the components by the mechanical engineers.

The visitors to Howley Park Quarry were treated to a unique, all access tour of the new plant. The installation was two weeks away from full commissioning so a unique time to view a completed plant just prior to any material being processed through it. Full access was given apart from the areas where some civils work was still being carried out at the stockpiles bases.

Full advantage of this unique view was taken by all the visitors and close inspection of manufacturing quality, maintenance access and design were on full display to all. The plant which consists of a CJ411 Primary Jaw crusher, a CH440 cone crusher, SS1233H and SK2163 screens, all hoppers, surge bins, conveyors, primary breaker, dust encapsulation and rubber screening media, control systems and ARSi crusher control technology was greatly admired by all the experienced people attending. Ian Conway, Consultant Engineer, over 40 years veteran of the industry and who has installed many plants all over the world was greatly impressed by the design and manufacturing. He said, "it is good to see such high quality, all galvanised structures and how apparently it all fitted together correctly with no on-site re-engineering required...something that is quite rare in this day and age!"

Colin Parke, Breedon Group's Central Region Director was pleased with the inbuilt safety design features. He said "the plant has been designed with safety and maintenance in mind

for the future. The double access conveyor walkways, high quality guarding and full access to maintenance points was of a very high standard".

Maintenance access was also spotted by Peter Rust, a senior engineer for Tarmac who was fascinated by the design and installation. Peter said, "this plant is designed and manufactured to a very high standard and has had ease, safety and speed of inspection and maintenance built in". His attention to detail also observed "every single nut and bolt on the plant is exactly the correct length. We all know this is as it should be but how often do we see this on new plant installations these days? I'm very impressed with the attention to detail".

The second group of customers arrived shortly after. At all times there were plenty of people from both Sandvik and Marshalls to answer any questions and Scott Robinson, Director of Robinsons of Longcliffe, the main mechanical installation contractor who was on hand to also discuss the project. Scott had commented "the 3D drawings, how every component, down to boxes of nuts and bolts, was QRf bar coded made the installation one of the most straight forward they had tackled in their long history".

The customers then also had the opportunity to discuss with Marshalls directors, operational management and engineers how they felt the project had gone. Andrew Robinson, Marshalls Minerals Division Managing Director, was keen to discuss the partnership approach and quick turn around by the departments within Sandvik. Having been given strict criteria of footprint and height restrictions from the Howley Park planning permit and the flexibility in seasonal and customer-based demand production requirements Mr Robinson said Sandvik were the only manufacturer who fulfilled the specification, which was almost perfect on first concept delivery. Other manufacturers either didn't listen or could only supply a standard solution that didn't comply. Marshalls operational and engineering management then worked closely with the Plant Solutions office in France and Applications office in Sweden to ensure the flexibility in production was achievable, to ensure all Marshalls health, safety and environmental standards were deployed and manufacturing and installation deadlines could be met.

The state of the art, turnkey plant was installed in around three months after foundations were laid. Marshalls have bucked the trend in the UK aggregates sector and have invested in a state of the art, fixed processing plant in a quarry with long reserves on a site that traditionally has had production carried out by mobile contractors. Mr Andy Robinson of Marshalls shared that the investment should pay back in three years and that they are looking at another Sandvik custom designed plant at other sites, including Scoutmoor Quarry near Bury,





Manchester. He said "we are investing on our long-term commitment to our customers by increasing productivity and flexibility. The site has a long future and we are proud to have invested in a plant that will see the next 25 years through comfortably".

Speaking about the project Mark Bodell from Sandvik said "When I became the stationary crushing and screening Sales Manager for England and Wales in July 2016, I was determined to bring the complete plant solutions concept that Sandvik had delivered to the rest of the world to the UK

market. I am very proud of the plant we have built here, and the partnership approached we have had with Marshalls from day one. We will now continue to work closely with Marshalls now to ensure the return of investment and longevity of the plant with a preventative maintenance plan and continue to optimise the plant to ensure maximum productivity and profitability going forward. I am looking forward to this being the first of many complete plants that Sandvik will supply to the UK aggregates market and already have had a phenomenal interest from the major British building materials suppliers for our turnkey plants".

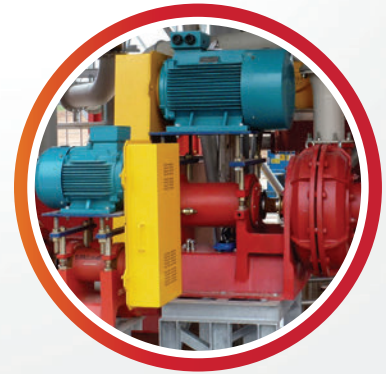
For more information please contact
mark.bodell@sandvik.com

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MCLANAHAN ULTRAWASH SYSTEMS



LAUNCHING AT BAUMA 2019

Stop By Booth FN1019\18

McLanahan UltraWASH Modular Washing Systems offer the same world-class washing technology we've been supplying since 1835, but in containerized modules for shorter lead times, quick setup and ease of transport if producing at multiple locations or one very large site. Produce up to five products – three clean aggregate and two washed sand products. Additional modules for crushing, screening scrubbing, thickening, and tailings management are also available.

bauma

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McLanahan Modular Wash Plants

With a long history of designing, manufacturing and installing modular wash equipment, McLanahan's line of UltraWASH modular wash plants are the latest line from the company. Engineered to include all McLanahan equipment that helps producers meet their process requirements, the UltraWASH provides the reliability, simplicity and efficiency that producers need from a modular plant.

All equipment that is part of the UltraWASH plants, including the vibratory screen, hydrocyclones, dewatering screen, sump and pump, is based on the company's well-known, field-proven designs. UltraWASH plants provide a quick, easy-to-install processing system. These modular wash systems are ideal for producers facing criteria such as planning permits, multiple locations, short-term deployment, or an unknown/variable feed stock (e.g. C&D waste streams applications) that make implementing a customized, fixed processing solution difficult.

Currently available in six sizes and configurations, the UltraWASH can produce up to three aggregate products and up to two sand products. There is a single process water feed point, as well as a single effluent discharge point.

We currently offer several additional configurations and additions to the UltraWASH, including:

- Single or dual sand product
- Feed preparation (log washer, blade mill, coarse material screw)
- Attritioning module for specialty sand production
- Organics removal module
- Water treatment with high density or paste style thickener
- Filter press for complete wastewater treatment

Ease of maintenance

McLanahan knows the importance of uptime, so the UltraWASH is designed with ease of maintenance in mind. Our pump trolley service platform allows the pumps to slide out from underneath the chassis for greater access when performing maintenance activities, such as changing the impellers or replacing casing liners. A foot pedal for lifting the discharge pipe from the pump and a locking mechanism for then holding the pipe aloft offer the clearance needed for the

pumps to roll out on the trolley service platform unrestricted.

We also offer a retractable feed conveyor to allow easier access to the feedbox when it comes time for servicing. Rather than lifting personnel to the height of the feedbox to perform maintenance, we bring the feedbox to them. With the push of a button, the conveyor will retract and the feedbox will be brought closer to ground level, making it both easier



and safer for your personnel to maintain. An upgrade to a track-mounted feed conveyor is also possible thanks to our partnership with Anaconda equipment.

Another maintenance feature we've included in our UltraWASH Modular Wash Plants allows easier access to the aggregate hood. Simply remove the section of grating from the walkway behind the aggregate hood, slide the aggregate hood back and reattach the grating in front of it. This creates a platform for accessing inside the aggregate hood when needed.

Quick setup

Because our modules arrive in individualized containers, they are quick to set up and easy to move around for different configurations. This also makes them easy to transport to other sites. Assembling each module is simple and takes less than a day to get the whole plant up and running.

While there are a number of modular plant solutions available in the market, McLanahan is one of the only companies offering both custom and modular washing solutions. This, combined with years of processing design knowledge, provides unmatched industry expertise in providing the correct solution for your application.

McLanahan Corporation was founded in 1835 in Hollidaysburg, Pa., USA. Today, the company is in its fifth and sixth generations of family ownership with offices that provide local service and support in Asia, Australia, CIS,

Conveyor transport plays such a central role in production

Interview with Metso Trellex specialist Alain Trouillet...

With the rapid throughput of systems both upstream and downstream that depend on conveyors, it's important to choose the right solution. Conveyor transport plays such a central role in production. If it fails, the whole system fails.

Metso conveyor solutions consist of accessories, the belts themselves, and other components. Metso is a world leader in design and manufacturing in all three categories.

13 Metso Trellex® solutions specially designed for conveyors.

A conveyor can't perfectly fulfill its functions without a good conveyor belt preservation. In order to prevent the belt from being damaged when materials are dropped into the loading point, Trellex® has invented an innovative impact bar device (in blue on the picture) designed to dampen the material falling on the belt. "These bars are made of a high-density polyethylene which is vulcanized on a soft rubber base," says Alain Trouillet, from the sales support department for screening media and linings at METSO. Two thicknesses are proposed according to the rock size distribution: 50 or 75 mm. To ensure the performance of the system, rotating rollers are placed just before the impact area, to trough the belt, thus giving it the right angle before to meet the impact bars.

Sealing



"Traditionally, loading zones of conveyors are damping stations consisting in successive rollers mounted in parallel which receive the feed. However, it causes belt sagging at each interstice between the rolls. The use of impact bars permits to maintain the belt flat and therefore the sealing remains linear", explains Alain Trouillet. Called "Snap-on", the Trellex® sealing system shown at the SIM congress maintains dust inside the conveyor. Black rubber plates vulcanized on a steel base are installed on both sides of the hopper. That plates permit both to guide the rock materials to the middle of the conveyor belt and to avoid contact with seals. "A good sealing system helps to reduce the maintenance need. In addition, because these systems are not rotatable, NIP points guards are not required", he adds.

Lagging

At the top of the conveyor shown at the event, three different types of pulley lagging were presented. Composed of several individual rubber elements, a combination of rubber elements



and ceramic inserts, or all soft rubber, each type of lagging has been designed for a specific application.

For instance, the combination with ceramic inserts is mainly used when the belt is highly stressed (large pulley diameter) and when a significant powerdraw is necessary to tow the belt. It's also very resistant to abrasion and thus slows down the lagging wear over time. In cold or dusty environments,

the free-area lagging is the most suitable as it permits self-cleaning at the first rotation of the pulley. "It is essential to get a good adhesion of the pulley on the belt to drive the conveyor", explains Alain Trouillet. "Our diamond pattern lagging (glued laminated rubber) fulfills that mission and also avoids the contact of the steel with the belt, which would cause slipping".

Cleaning

Several cleaning solutions of the conveyor belt exist to preserve the conveyor and to systematically make it efficient. Installed in line with the head pulley, the pre-cleaner immediately cleans the belt after the rock material is spilled. It's a big advantage because fines and coarse material are both eliminated.

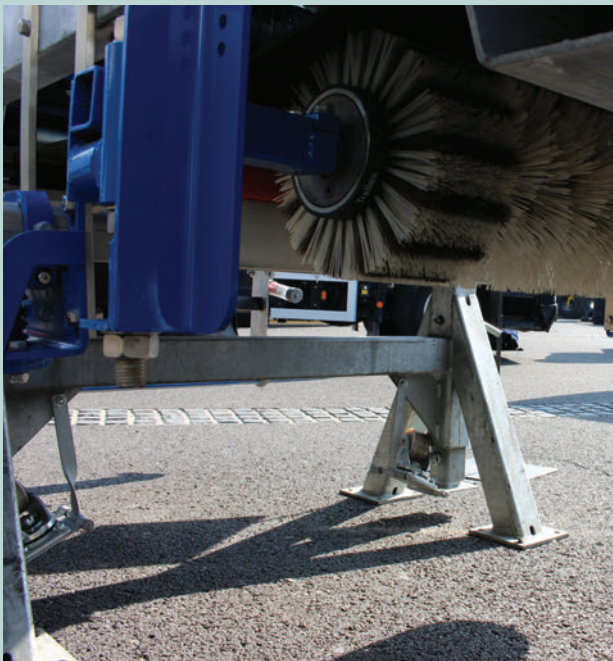


Three versions of scraper blades are offered by METSO according to customer needs. Mostly used in quarries, the "ABC 70" bi-color blades (blue and yellow) are built up by two polyurethane materials. "We have blades for conveyor

belts with standard dimensions for quarry application up to 1200 mm, and pulley diameters up to 800 mm.", he says. But the main advantage of Trellex® belt scrapers is the ease of installation and maintenance. Indeed, the blades are slid on a rail and thus can be easily changed when it's worn.



Otherwise, the secondary cleaners, located underneath the conveyor belt, benefit from the same advantage for blade replacement. Much more efficient but also more sensitive to belt quality or patching, blades consist of steel or tungsten carbide tips on a polyurethane or rubber mount.



Another Trellex® solution is the motorized belt brush, made of nylon or a combination of nylon and steel, depending on the type of material to be cleaned. It's a brush motorized with an operating voltage selected between 12 V and 380 V, which rotates against the belt rotation direction. It is suitable for removing very fine materials, sticky or wet, which are commonly impossible to clean using traditional scrapers (pre-cleaners). Besides it is the only efficient cleaning solution for clogged conveyor belts.



Automatic centering of the belt

Lastly, another major problem facing conveyors is the belt mis-tracking. "When materials fall into the feeding zone, it creates transverse forces on the belt, which can move laterally or shift from its drive pulley", says Alain Trouillet. Thus, the consequences can sometimes be very dramatic, tearing or even cutting the belt.

To make sure the belt always stays in its axis, Trellex® has developed an automatic centering device. "Our system is mounted on the return run of the belt (underside) and constantly align the belt. It's combined with a centralized lubrication. To facilitate the maintenance of rotative components, without using a nacelle for instance, we have deported the greasing points to a manifold placed in an easily accessible corner of the conveyor."



The original article was published in French by Construction Cayola

<https://www.constructioncayola.com/terrassements-carrieres/article/2018/10/24/121312/13-solutions-trellex-presentees-sur-convoyeur-metso-sim>



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High capacity: The MC 120 Zi PRO is a master of granite processing

A job for the first jaw crusher in the new PRO line from KLEEMANN: the MOBICAT MC 120 Zi PRO has an impressively strong crusher and, when combined with the largest, independent prescreen in its class, it achieves high capacities, as demonstrated recently in a quarry in Norway. The Stangeland company processes granite at the Veidekke Hyllestad quarry, located on the peninsula on the Sognefjord, near Leirvik. Veidekke produce asphalt at this location, which is loaded directly onto ships and transported to various processing sites.

Fines are kept out of the crushing process

In Sognefjord, an excavator transfers the blasted granite to the feed unit of the MC 120 Zi PRO. Because the feed material contains a high percentage of fines, the double-deck pre-screen is of critical importance: it prevents the fine material

from getting into the crusher unit, helping to increase productivity and efficiency. Thanks to the plant's high feed rate, the crusher unit operates at full capacity under all conditions and extremely efficiently with its diesel-electric drive. Should material ever become jammed, the reversible crusher drive springs into action. With this optional unit, the system can be run in both the normal forward direction and in reverse when the crusher is full. After the MOBICAT MC 120 Zi PRO does its job, the pre-crushed material is conveyed to a multi-stage stationary plant that crushes it to the required grain sizes.



Ready for the Norwegian winter: Stangeland's MOBICAT PRO plant is configured with a cold package that enables operation at temperatures down to -25 °C. KLEEMANN also offer a heat package for work at temperatures up to +50 °C.



The new PRO line of jaw crushers from KLEEMANN: the MOBICAT MC 120 Z PRO pre-crushes virtually all types of natural stone.



50 t/h is the maximum feed capacity of the MC 120 Z PRO jaw crusher.

Compact crusher with tremendous power development

Stangeland have been operating the plant for several months now and are extremely pleased with its high output. For years, they had been using a rival machine that was equipped with a crusher unit of identical size, and therefore did not expect any significant difference in overall performance. But it quickly became apparent

in day-to-day operation: "Even with the biggest boulders, the crushing unit on the MC 120 Zi PRO barely loses speed or power at all. The material just flows right through. Our old plant would have long since ground to a halt. That's why the MOBICAT PRO was an instant hit with me," says Arve Kenneth, Stangeland Machine Operator.

Job site details:

Rock processing at a quarry on the peninsula on Sognefjord, Norway

- Material: Granite
- Feed size: 0-700mm
- End product: 0-150mm
- Crushing capacity: 335t/h
- Closed side setting (CCS): 100mm

Terex Finlay Screens are flawless gems for Steyn Diamante

You may be forgiven if you haven't heard of the Schutsekama Diamond Mine on the Riet River near the village of Ritchie, which lies south of Kimberley. It is not a mine where the skyline is dominated by a shaft tower. Here in fact, the only raised portion shows four large red mobile Finlay Screens processing a constant stream of rock, gravel and sand that is separated onto different moving belts which spew the material into heaps.

Archaeological data shows that the narrow Riet River ran a lot wider some centuries ago. Alluvial diamonds from as far as the present day Jagersfontein and Koffiefontein were pushed into the surrounding areas as the river flooded the plain en route to joining the Vaal River further downstream.

This is where Schalk Steyn of Steyn Diamante, doyen of alluvial diamond mining in South Africa, established one of his mining operations in 2015. The Schutsekama Mine Manager is Wikus de Winnaar and we asked him what makes their mining methods work in that area.

"Compared to traditional alluvial mining methods, we've gone considerably bigger on this site using a 240-tonne excavator

for loading 100-tonne rigid dump trucks. They, in turn, deposit the diamond-bearing gravel onto stockpiles from where huge 50t excavators feed the material into Finlay 893 Screens for separation," he explains. "Anything larger than 125mm is returned to the mining pit to form the basis of rehabilitation and finer material than that is sent to the processing plant."

"During April 2018, we fed 159 957 tonnes of run-of-mine material through three Finlay 893 Screens or which proves that we couldn't mine so sustainably and on such a large scale if it weren't for our fleet of Finlay 893 Screens. We have four in a row here but use only three actively, keeping the fourth in reserve for when any of the others need maintenance. Regular rotation also takes place so that the load is spread amongst the four machines."

The Schutsekama mine works daytime shifts from Monday to Saturday with month-end long weekends. Machine hours are clocked relentlessly, especially on the Finlay 893 Screens. At the time of writing, the newest machine showed 340 hours and the oldest 5 477 hours.





Bell Equipment Sales Representative, Eric van der Merwe (left), chats to Wikus de Winnaar, Mine Manager at the Schutsekama Diamond Mine.



The Finlay 893 Screens are placed as close to the mining areas as possible to shorten the haul distance. This works as the rigid trucks run full in both directions, bringing mined material to the stockpiles beside the Finlay Screens and returning with oversized material for roll-over rehabilitation.

"Because of the area where we mine, we come across a lot of wet clay, sand and shale in the diamond-bearing gravels, but we can throw anything at these Finlays and they separate what we don't want from that which goes to the plant – they are simply amazing."

According to Wikus, the present four Finlay 893 Screens were bought relatively recently as replacements for four older machines which were sold out of hand. It's a well-known fact in the alluvial mining industry that Finlay Screens from Steyn Diamante have been well maintained and they are therefore sought after on the pre-owned market.

Fuel is a major cost factor to any miner and this site consumes 8 500 litres of diesel a day. The Finlay 893 Screens have been recording fuel burn of around 20 litres an hour and, considering what they produce, this is considered low.

"Schalk first used Finlay 883 Screens back in 2004 when he started mining alluvial diamonds in South Africa," Wikus continues. "He knows the machines' capabilities and while going on to the larger 893 machines has stayed with Finlay as he has absolute faith in the brand."

"What we appreciate, as the mining teams and those working with the Finlay Screens daily, is that we have the backing of Bell Equipment in terms of technical support and parts supply. We get great service from Shaun Malan and his whole team at the Bell Customer Service Centre in Kimberley and even if parts are not in stock, a plan is always made to supply us quickly," he adds. "Mining equipment will need attention and can surprise you at any time but knowing Bell Equipment is close by, allows us to do what we do best – mine diamonds and rehabilitate the land afterwards."





Sandvik Mobile Crushers and Screens roll out the latest upgrade in their “2 Series” product offering with the launch of the new QS332 cone crusher...

Continuing their ongoing product development Sandvik is proud to announce the launch of the new QS332 gyratory cone crusher. This latest addition has been upgraded to encompass the many product refinements of the recently launched QH332 Hydrocone, in order to improve operation, efficiency and ease of maintenance.

Sandvik launch next generation “2 Series” gyratory cone

The compact QS332 is targeted at the most demanding of aggregate producers. Featuring the renowned Sandvik CS430 gyratory cone crusher, it is able to accept a feed size up to 90% larger than current standard cones. This produces benefits for customers by delivering improved productivity on such applications as Type 1, crusher run or in primary gravel crushing.



Crushing and screening in one unit

One of the unique benefits of this new model is its ability to be adapted quickly for operation in open or closed circuit configurations. This is achieved using its new optional modular Double Deck Hanging Screen system (DDHS), a self-contained finishing screen module that can be added or removed from the plant in less than 30 minutes without the need for any lifting equipment on site.

The double deck hanging screen enables the plant to produce two screened products and recirculate the oversize back into the feed conveyor for reprocessing.

A further unique feature of the Sandvik QS332 & DDHS is that it features a patent pending adjustment system that allows the screen to be quickly reconfigured to product one single sized finished product, or two sized finished products, depending upon the customer's demands at that time.

The oversize conveyor may be hydraulically rotated for material stockpiling (90°) of up to three products on the ground, or removal (180°). The tail section can be raised hydraulically to give improved ground clearance for transport when loading or unloading.

Class leading CS430 Cone crusher

The Sandvik CS430 cone crusher is at the heart of this world leading piece of technology. It is equipped with a hydroset system which provides CSS adjustment at the touch of a button. The automatic setting regulation system not only optimizes production, it also keeps track of liner wear, making it easy to plan liner changes and minimize interruptions in production. The CS430 cone has a choice of three concaves and four eccentric throw options ranging from 16 mm to 30 mm all contained within one eccentric bush, providing unrivalled flexibility regarding CSS ranges, production and material gradation.

World leading features

Amongst the features of the QS332 are durability through the chassis being constructed from heavy duty 'I' beam, as well as its heavy duty, hydraulically-positioned feed conveyor with optional wear resistant liners and hydraulic folding hopper extensions. An 'up and over' metal detector provides the ultimate in cone protection from tramp material.

My Fleet telematics

The QS332 comes with My Fleet remote monitoring system as standard. My Fleet has been developed to help our customers know exactly how equipment is being utilized. Through the collection and accurate monitoring of a wide array of parameters, this facilitates accurate production forecasting, ensuring that the most efficient use is obtained from equipment, thereby maximizing return on investment.



Key features include:

- Optional hanging screen available for recirculation or stockpiling to produce two products. This is completely detachable without the need of additional lifting equipment.
- One of the most versatile units on the market with a choice of three different crushing chambers and a variety of eccentric bush settings.
- MY FLEET Remote Monitoring fitted as standard for live remote monitoring of plant, hours, location, etc. to optimize machine operation.
- Automatic level sensor above the crushing chamber to control the feed rate and minimize operator intervention for maximum production and reduction.
- Remote camera for visibility of the crushing chamber from ground level.
- Hydroset CSS regulation system to optimize production and keep track of liner wear.
- Revised "New Look" chassis design for durability.
- CAT C9 or C9.3 diesel emissions compliant engine with direct drive heavy duty wet clutch for maximum power delivery and fuel efficiency.



CMB International supply new bespoke screen for Tarmac Marfield

CMB International has recently completed a screen replacement for Tarmac at their Marfield Quarry in North Yorkshire.

Situated near the village of Masham, Marfield Quarry has been in operation for over 50 years and owned by several companies with Tarmac the current operator.



CMB being given the task of providing a replacement. This decision proved fruitful as the screen suffered total failure a week after the order was placed!

CMB subsequently supplied a bespoke 1.8m x 6m long, double-deck screen designed to fit within the existing envelope and pick up on original feed and discharge points which eliminated any further work.

The task of removing the old screen and the installation of the new screen complete with new rubber covered underpans was completed in four days by CMB's sub contractors, S.P Services.

Andy Coe – QM, commented, "We were very pleased with the work ethic, documentation and good working practices of the installation team, everything went very smoothly."

The sand and gravel plant at Marfield processes approximately 350,000 tonnes/annum with the plant operating in the region of 250tph with material across the screen at 150tph. The primary crusher feeds aggregate into the plant with the crushed aggregate fed by conveyor onto the new screen with any oversize fed back to the secondary crusher where it is crushed to -40mm.

The new screen has been fitted with Scandura modular PU media (600x300mm) unlike the original tension mats on the old screen.

Material in the area consists of mudstone, siltstone and sandstone with approximately 5.5 million tonnes of sand and gravel reserves at the site.

The current processing plant was originally moved from the site adjacent to the current quarry, which is now a nature reserve, in the eighties. The screen was installed brand new at this time.

After a long life, issues occurred which required welding repairs and a decision was made to replace the screen, with



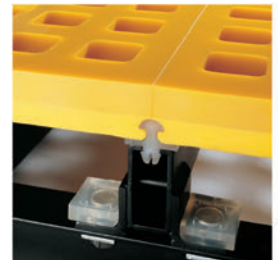
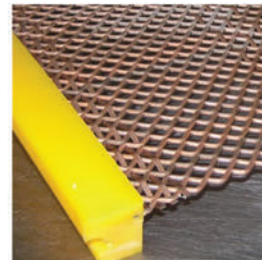
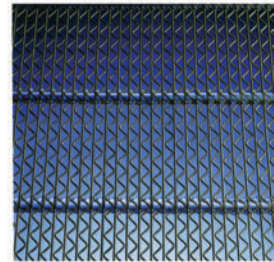
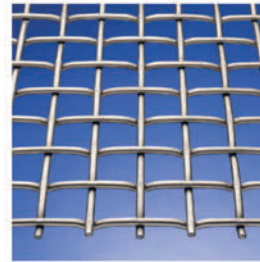
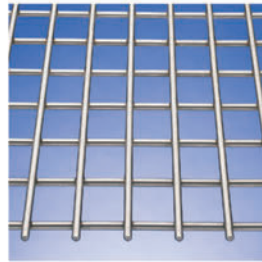
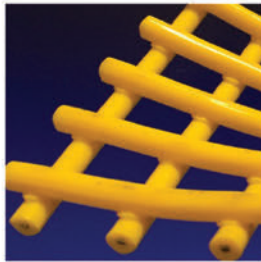
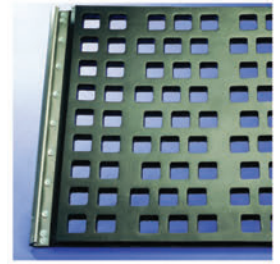
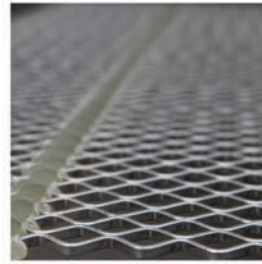
Andy, commented, "I wasn't sure about changing to modules after working with tension mats on my grading screens over the years, but they are working efficiently, and we do have them elsewhere on the plant. Its also easier as previous damage meant a complete mat replacement whereas with modules its just one module so more efficient and cost effective."

Production was immediately back on track after the installation with the plant supplying a range of 40-6mm aggregates and a course sand to internal concrete and bagging plants within a 50-mile radius

Andy Coe – QM who also manages the nearby Nosterfield sand and gravel quarry commented, "It's been an efficient exercise and I am very pleased with the screen, its running like a dream and all credit to CMB."

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TEMA ISENMANN Ltd

Industrial
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Industrial Screening Systems

A subsidiary of ISENMANN Siebe GmbH, one of the world's leading manufacturers of screen media and ancillary products, TEMA Isenmann Ltd are a UK market leader in the design, distribution and supply of industrial screening systems to the aggregates, mining and steel industries.

Located in Woodford Halse, Northamptonshire, the company has a long track record in identifying and delivering effective screening solutions (e.g. polyurethane modular panels, wear liners, rubber screens etc.) to existing problems; with a strong focus on giving UK and overseas customers best value for money through optimized productivity, efficiency and accuracy.

Screening Innovation

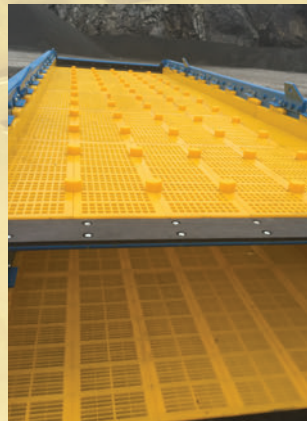
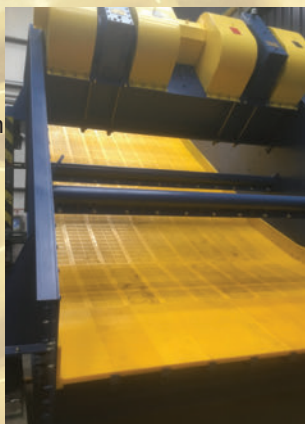
Developed over 30 years ago, TEMA Isenmann's industry-proven Isepren WS85 modular screening system continues to be one of the company's flagship products. The screen modules manufactured from the highest-quality polyurethanes available subjected to stringent quality control measures, come in a range of different shore hardness's and designs to meet a wide array of screening applications in the mineral extraction and recycling industries.

A key challenge for quarry/mining operators is to be able to deliver the lowest cost-per-tonne production in the safest possible way and TEMA Isenmann's ongoing investment programme demonstrates the strong commitment to supporting customers, developing new products and driving technological innovation.



The latest evolution of the patented WS2.10 magnetic polyurethane modular screening media system is now being successfully used in dewatering applications alongside traditional classification and sizing duties and is compatible with original WS85 installations.

The WS2.10 system is suitable for vibrating and static screens, trommel screens, sieve bends, cross member/tube protectors and general wear protection lining. Thanks to its ease of installation and long wear life, the WS2.10 system reduces plant maintenance and labour costs, but more importantly eliminates any potential safety hazards associated with conventional fixing arrangements.



With quarry companies fully committed to the health and well-being of their employees, safety has been, and continues to be, an important priority when it comes to designing and developing new products and updating the existing equipment portfolio.

Working very closely with aggregate producers and equipment manufacturers, what makes TEMA Isenmann different in the

market place is the great success working in partnership with our customers to help them optimize equipment uptime, increase operational efficiencies and improve overall health and safety performance.

The vast array of media available from TEMA Isenmann (including woven wire, self-cleaning harp sieves, rubber and polyurethane) can be retrofitted to screening machines at any time, but if a plant is designed with a modular system from its inception, overall equipment costs are reduced while improving return on investment for the end-user. It is against this backdrop that we work closely with our OEM customers to develop new products that ensure aggregate plants operate at maximum efficiency, this in turn drives innovation, keeping TEMA Isenmann at the forefront of screening media technology.



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Quickspray - A great addition to our existing built-in dust suppression system

Located in the heart of Leicester, AR Demolition have established the AR Aggregates Urban Quarry. This location is an aggregate recycling plant which produces recycled material out of the waste product from AR Demolition jobs as well as other companies who require the need to dispose of waste aggregate from site.



Surrounded by an industrial estate, railway and nearby housing (within 200m) it is important for the Urban Quarry to manage and minimise their airborne dust output effectively, particularly in the summer months.

The Urban Quarry is fitted with a built-in dust suppression system but in order to achieve greater water coverage and less airborne dust, a secondary application was required.



The Ace Plant Quick Spray was lent to AR Aggregates as a demonstration unit and was quickly put to use. The buckets of their loading shovels can be disconnected, and fork tines can be connected instead. The built-in fork sleeves of the Quick Spray unit enabled the attachment to be utilised with AR Aggregate's existing fleet of machinery.

Powered by third service hydraulics, the Quickspray is fitted with a hydraulically driven carbon fibre spinning disc which atomises water into a fine mist – trapping airborne and surface dust.

Darren Thompson, manager of the AR Aggregates - Urban Quarry stated that the Quick Spray, "Can be lifted to height easily to atomise water over stockpiles and machinery." Easy to pick up, connect up and quick to get water down and a good addition to our built-in system."



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ODS Environmental Group offer a solution to dust inhalation

ODS Environmental group are now able to supply our existing and new customers a solution to dust inhalation while using plant and machinery.

Working with our Dutch partners we are offering positive pressurisation systems that can be fitted to an existing machine or to new machines.

The system controls a positive pressure in the cab thus stopping dust or voc from entering the cab and the operator breathing them in. We have a CE compliant system built to the highest standards demanded by the EU and the United Kingdom.

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ODS will come to site anywhere in the UK to fit and advise the best system for each piece off plant.

Freshfilter produces cab air quality systems for mobile machinery such as haul trucks, shovels, diggers and static operator enclosures. Using HEPA and activated carbon filter elements, our products protect operators in the most hazardous environments.



Your benefits with Freshfilter products:

- Healthy breathing air in mining, asbestos removal, waste sorting and forestry industries
- Patented filter systems that extend filter life time by over 5 times!
- Stainless steel maintenance free housings
- State-of-the-art control unit with remote monitoring functions
- Experienced installers/dealerships globally

Freshfilter supplies cab air quality systems to provide a healthy breathing air to operator stations on earthmoving machinery, used in contaminated areas such as mining, agriculture, forestry, demolition and waste handling industries.

To prevent ambient air from entering the operator's cabin, a slight positive pressure difference (1 millibar / 100 pascal) is to ensure that there is always an outflowing airstream from the cabin. The necessary inflowing air for achieving this pressure difference, is always delivered into the cabin through the filtration device. To minimize the amount of inflowing air,



the cabin is sealed to approximate air tightness, and a control unit is placed in the cabin to safeguard the pressure.

Freshfilter supplies gas filters, particle filters and dust filters that conform to EN1822, EN779 and EN12941. No respiratory devices have to be used anymore, when filter elements are combined according to the pollution.

In the Netherlands, air filtration devices have been obligatory when working in an aromatic, dusty or toxic environment since 1995; for instance, when moving earth of a former gas station or of a former waste belt. Dutch regulations are devised both to protect employers from liability law suits as well as to protect the health of employees when working in harsh conditions.

Although air filtration may seem a luxury item in an aromatic environment of a chicken farm, it is a bare necessity when working with asbestos or in dust or toxic fumes. Moreover, strict European legislation for the air quality is likely to find its way into global legislation. Recently for example Canadian laws already require cab air quality systems when working with silica dust. Also, in agriculture the demand for air quality improvement is increasing rapidly with the introduction of the class 4 (Europe) or ECPAD/ECPAR/ASABE (US only) standard.

Freshfilter can help your company ensure a safe work environment for your employees. With our patented products we will improve effectiveness, continuity, health and safety but also decrease operator costs resulting from illness. You and your operators can always rely on the Freshfilter cab air filtration units to provide clean and healthy air during work.

Sectors we serve:

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- Demolition & Asbestos removal
- Agriculture & Forestry
- Bulk stevedoring
- Waste management & Recycling
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- Manufacturer & OEM level

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Master Magnets go from strength to strength in magnetic separation technology

The HUB-4 team recently visited Master Magnets in Redditch, Worcestershire to gain an insight into the Master Magnets Brand and its extensive success over the last 40 years. The midlands based Magnetic Separator and Metal Detector manufacturer has developed a reputation as one of the leading technology companies in the recycling, mining and mineral processing industrial sectors and was recently acquired by Bunting Magnetics, one of the world's leading suppliers of Magnet related technology.

Master Magnets was founded in 1978 by Geoff Worley and after growing steadily throughout the 1980s despite the economic challenges, the company was perfectly positioned for the increased demand of magnetic separation technologies in the early 1990s.



Jonathan Millington, Marketing Manager for Master Magnets

At the time, there were high levels of investment in the UK coal industry and globally located mineral processing projects. Using his considered knowledge, Geoff and his team of engineers developed a range of magnetic separators specifically for those key industries. For the coal and mining industries, they developed large Electromagnets which would be suspended over conveyors to remove large tramp metal such as pit props and bars. The drive in Mineral Processing was for the recovery of higher purity non-metallic minerals. The Induced Roll Magnetic Separator (IMR) and Disc Separator models were designed to accommodate a wide array of applications in this sector and a laboratory where clients could test materials was also established.

The Master Magnets brand became globally recognisable as export sales increased. In 2003, Master Magnets relocated to Redditch to expand their manufacturing capacity. As Master Magnets continued to evolve and expand, Worley took partial retirement and handed the reigns of the business to Adrian Coleman. Coleman had started his career at Master Magnets in 1984 as an apprentice and witnessed the evolution of the company.



Adrian Coleman of Master Magnets with Simon Ayling, Bunting Magnetics Europe's Managing Director at RWM 2018

"Master Magnets gave me the opportunity to develop my engineering career," explained Coleman. "In 1988, they supported me through a four year Mechanical Engineering course at Birmingham University. This gave me the necessary engineering skills to join the design office. As the company grew, I took up the position of Production Manager, before becoming Managing Director in 2008."

In 2017, Worley agreed to sell the Master Magnets business

to Bunting Magnetics. He foresaw the investment needed to maintain Master Magnets' reputation as a global leader and identified Bunting Magnetics as the ideal partner.

"Master Magnets has developed a long-standing strong identity and reputation as a leader in metal separation technology," said Simon Ayling, Bunting Magnetics Europe's Managing Director. "The acquisition means that we can invest in their manufacturing facility in Birmingham and in the development of new separation technology. When Geoff Worley founded the company, his aim was to produce well-engineered equipment to solve metal contamination and separation problems. That challenge has been passed onto us and we are excited by the future."

The Future

We talked with Jonathan Millington, Marketing Manager for Master Magnets about the future of the group "The acquisition by Bunting of Master Magnets has allowed us to



invest heavily in growth and has given the overall group a huge advance in the areas we are extremely strong in such as eddy currents, over-bands, electro-magnets and high intensity mineral separation equipment. This combined strength will allow us to move into many more markets globally and has already seen our best performance to date as a group, greatly surpassing our 2018 targets.

Jonathan gave us a tour of the manufacturing area "With both our production facilities at capacity our order books are full for several months and the investment from Bunting will now allow for expansion onsite here at Redditch to substantially increase our manufacturing capacity to meet future demand. This will begin during 2019 and will see this site grow by around 30%.

"We have a complete testing lab where we can test all kinds of client material that they may send us. We separate their test material into different grades to show the different levels of separation and what can be achieved. These final grades are sent back to the client with a full report and recommendations. This service is free and we welcome test material from potential new clients. We also have a dedicated metal detection 'clean area' which is contaminate free and allows us to thoroughly test our metal detectors before dispatch.

A recent new client acquisition for us involved us doing some in-depth test work for them on a stainless steel and an eddy current separator which allowed them to test the machines over a longer period and they were so impressed with the results, that they have now bought a 500mm wide 'R' Type Eddy Current Separator from us, with the deal being signed at RWM 2018. This testing process is something that we are happy to offer to potential new clients.

"In terms of exhibitions and our drive into new markets we will be exhibiting at bauma 2019 for the first time as a group and will have a brand new Eddy Current Separator to launch on the stand. This will allow us to talk to potential new clients throughout Europe expanding our reach. Minerals separation is also going to be a growth market for us within Europe, Africa and Asia in 2019."

With all products manufactured in the UK the combined group employs over 70 employees and has two large manufacturing bases in the UK, one in Redditch and one in Berkhamsted, Hertfordshire. For more information on Master Magnets please visit www.mastermagnets.com or call +44 (0) 1527 65858.





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Strong magnets for improved recovery and separation of stainless steels in material recovery processes.

The STEINERT MSB HG rotary magnetic belt separator is a versatile enhancement of the well-proven STEINERT MSB for recovering stainless steel content from bulky materials within recycling processes...

High-grade stainless steel of various grain sizes and content can be found in many material recovery and shredder processes. Deploying strong magnets at the right places in the system allows greater yields of stainless steel to be recovered. Strong magnets also protect downstream shredding machines in e.g. plastic recycling and aluminium recycling from increased wear caused by the separation of stainless-steel content.

The STEINERT MSB HG (high gradient) enhancement comprises very strong ring magnets, which recover high yields of stainless steel. A high dense magnet pack in a compact radial pole arrangement ensures an optimum combination of magnetic flux and magnetic force coupled with a high depth of field. Depending on the application and sortable material, appropriate machine configuration options ensure the best possible result.

Typical applications include recovering and separating stainless steel from:

- Shredder residue (SHF/ASR and SLF) after the eddy current separator
- Heavy fractions of wet dense media separation (DMS)
- Pre-shredded aluminium and light metal scrap before downstream shredding (machine protection)
- Ash from waste incineration downstream, drop of eddy current separator
- Shredded plastic flakes, milled materials and granulates



Clearaway makes a smart choice

Basildon based, skip hire and waste management specialists has invested in a Sennebogen 821E supplied by Molson Green as they develop their new waste processing and transfer yard.

A family run business, for over 20 years Clearaway Recycling Ltd has maintained innovation at their core. Outgrowing their old premises, a recent move to a larger yard has meant a surge in investment in the material handling equipment on site. The latest of several recent additions to the fleet has been a Sennebogen 821E material handler fitted with a 650l capacity selector grab that will pre-sort waste prior to loading their static plant and loading containers of sorted and processed material.



Clearaway are a well-established Skip Hire and Waste Management company servicing businesses and the public in the Basildon, Southend and Romford areas. With 40 articulated vehicles on the road including 10 skip wagons and several roll-on/roll-off wagons, they are well positioned to offer customers in the area the reliable and punctual service customers have come to expect.

While the business prides itself on extracting the maximum amount of recyclable material from its waste as possible, customers can rest assured that none of their waste is going to be buried at landfill. 100% of non-recyclable items go into an energy from waste facility that generates electricity from the remaining processed waste.



Investing in reliable workhorses:

The Sennebogen 821E works alongside other recent investments in their fleet, supplied by Molson. These include a Hyundai HL760 waste handler loading shovel, a Hyundai R145LCR-9A compact radius excavator and a Keestrack K3, 3-way screener.

The Sennebogen 821E truly is the heartbeat of their operation. With a continuous stream of skip wagons and roll-on/roll-off lorries through the gates, it effortlessly pre-sorts freshly tipped loads removing any large and bulky items including easily separated bits of timber, metal or carpet before their Hyundai HL760 WH consolidates the material into a tidy pile. Seamlessly, the Sennebogen 821E is straight back into action loading their static plant where the material is processed through a trommel screen and a picking station for full separation of recyclable items.

The Sennebogen 821E clearly demonstrates it is the perfect machine for Clearaway's application not only by the tasks it needs to complete, but also the working range it is required to cover. With a reach of 11m to the dipper pin when fitted with the K11 ULM boom configuration and an operating weight of 23,950Kg, it has the reach and balance to perform any task this demanding environment can throw at it.

Operator comfort:

The unrivaled operator comfort offered by the Sennebogen MaxCab system will keep the operator happy and productive throughout the course of a full shift, thanks to its air-suspension seat with built-in heater, sliding door, ample leg room and best of all the fingertip control allowing the operator to drive the machine from the joysticks.

Consequently, this makes the steering wheel a thing of the past, allowing full visibility from the hinged front window making picking and sorting tasks more efficient thanks to the operator's uninterrupted view.





Paul Whitehare, Clearaway Ltd Owner said; "We have been delighted with the Sennebogen 821E. It is doing everything we thought it would and it hasn't missed a beat. The operators love the cab and they have also been very keen on the fact they can adjust the speeds on the attachment to suit their operating style. As we all know, a happy operator is a productive operator.

The other machines that Molson have supplied have also been spot on. For me the ability to deal with Adam for all this kit was a key part of my decision on what to buy. To know I have only got one call to make for any problem, on any of this kit makes my life a lot easier".

Adam Meeking, Molson Green Sales Manager said; "Paul and the team are fantastic to deal with. They hold many of the same family run business values that we believe in at Molson. By being true to their word and always trying to work together we have built a strong relationship that I believe will continue to grow and grow as both businesses move forward together."



Largest recycling plant in the UK opens its doors

New state-of-the-art facility in Scotland's central belt is now fully operational...

Brewster Bros, a family-run business in Livingston, has officially launched the largest recycling plant in the UK. The plant, featuring a CDE state-of-the-art wet processing system, will provide waste management services and recycled aggregates to builders, construction companies, ground workers, civil contractors and utility contractors from its new high-tech facility in Scotland's central belt.

The recycling centre includes over £2m of investment into high efficiency CDE equipment, with a capacity to recycle 400,000 tonnes of construction, demolition and excavation waste per year. In line with the Scottish Government's Circular Economy Strategy 'Making Things Last', the plant can process and recycle soils and rubble collected by Brewster Bros' fleet of tipper lorries from construction sites into high value sand and gravel - reducing waste disposal costs for Brewster Bros' customers while maximising waste recovery. The waste collected is not subject to landfill tax and the recycled aggregates produced are not subject to the aggregates levy which enables the business to keep its prices competitive.

The CDE wet processing system was specifically designed to process difficult construction and demolition waste materials and optimise material recovery. The plant is fed by an R2500 primary screening unit, which scalps off the oversized



+100mm material. The remaining material enters the M4500 modular washing plant which feeds, screens, washes and stockpiles on one compact chassis. The M4500 produces two washed aggregates (4-40mm and 40-80mm) and two sands (0-4mm and 0-2mm). The 4-40mm material passes to the AggMax 253R which is ideally suited to ensure maximum product yield from clay-bound materials. Three scrubbed recycled aggregates are produced: 4-10mm, 10-20mm and 20 – 40mm. The plant also includes sliding dual sand conveyors which will give Brewster Bros the flexibility to blend sand to meet any specific grading requirements.



To increase efficiency, the plant incorporates a full water and sludge management system including an AquaCycle A600 thickener which, in combination with the CF8000 centrifuge, ensures 90% of water can be recirculated for immediate reuse in the plant, reducing the need for fresh top up water to a minimum.

David Kinloch, CDE Regional Manager UK & Ireland, said: "I am delighted to have had the opportunity to work with Brewster Bros to create a construction, demolition and excavation waste recycling plant bespoke to their site and production requirements.

This large-scale facility incorporates the latest CDE technology and will be a flagship project in Scotland. We wish Brewsters every success as they champion the move towards zero waste and embrace the circular economy and look forward to a continued strong partnership in the years to come."

Due to its Quality Management Systems, Brewster Bros' is an accredited supplier of Zero Waste Scotland's Aggregate Quality Protocol Director. Its facility responds to the ever-changing recycling landscape and supports the Scottish Government's aim of securing 70% recycling of construction and demolition waste by 2020.

The company takes over from an established family-run recycling business, Henry Gillies. Thanks to increased investment, Brewster Bros forecasts an annual turnover of £3m at the plant, which will boost the local economy and provide further job opportunities on top of all 20 job roles retained from the previous owner.



Scott Brewster, Director at Brewster Bros, said: "It's an exciting day as we officially launch the UK's largest recycling facility of this type. Our number one aim is to treat and recycle construction and demolition waste as a resource, ensuring zero waste to landfill.

"Through significant investment into state-of-the-art recycling techniques provided by the plant supplier CDE Global, we are looking forward to shaping the future of the recycling industry across Scotland and beyond. This new plant should act as a game-changer for the construction industry, by saving money for our customers and ensuring they can dispose of their construction and demolition waste in a sustainable manner."

Stephen Boyle, from Zero Waste Scotland, said: "We are delighted to see the addition of this new plant in the central belt to help support the construction trade with its recycling with the aim to reduce the use of landfills. We hope the industry acts on the commitment to become more conscientious when it comes to construction waste and the opening of this new plant is a big step in the right direction."

All recycled materials from the plant will come with a UKAS accredited quality certification and conform to the requirements for the BREEAM Sustainability Assessment Method for Construction.





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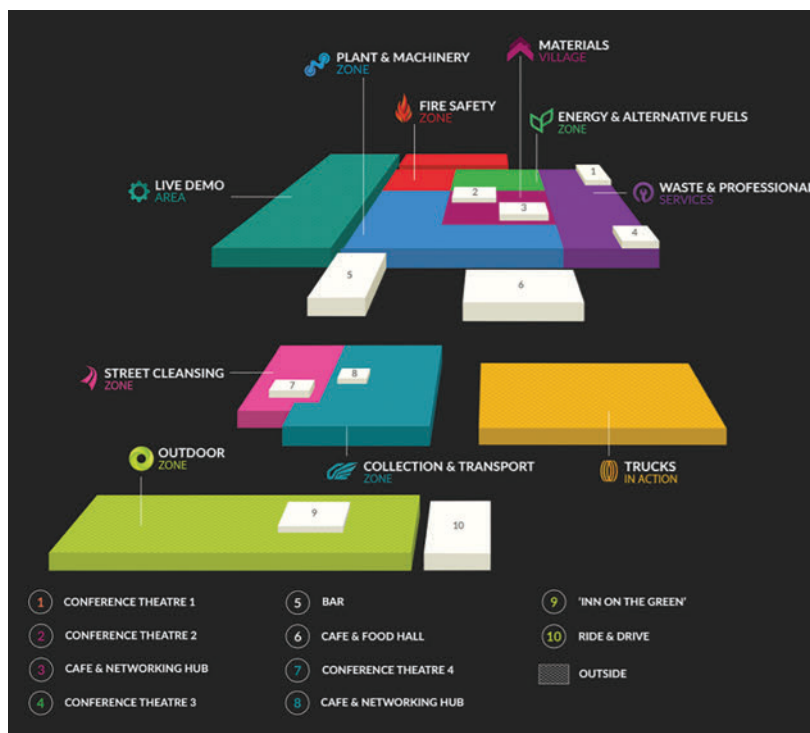
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New Waste & Recycling Show - Letsrecycle Live

As we enter 2019, we look ahead to the next major event in the waste and recycling calendar - Letsrecycle Live, taking place on 22 - 23 May 2019 at Stoneleigh Park. The organisers promise that the event will bring the industry and its supply chain to life, in one of the sector's most exciting developments in recent times. We take a closer look at what the show will offer for visitors and exhibitors alike.



SEVEN SHOW ZONES

Letsrecycle Live consists of seven show zones spread across indoor and outdoor areas. With a focus on seeing equipment, vehicles and machinery in a live environment, the show will bring product and service providers together with tier 1, 2 & 3 waste and recycling businesses, material processors and skip hire businesses in an environment conducive to building lasting business relationships.

LIVE DEMONSTRATIONS

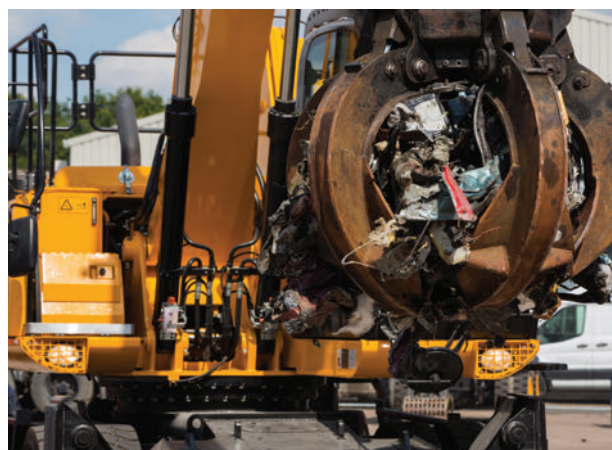
In an industry first, the new show features three separate demonstration areas and will see material being processed live on site by a range of shredders, balers, screeners and more. Fire experts Fireward will be running demonstrations of the latest automatic fire suppression systems, while exhibitors will be showing off the latest refuse collection vehicles in the Trucks in Action area.

Visitors to the show will see plant, machinery and vehicles in a working environment allowing them to make informed decisions about what might work best in their operation. There will also be an opportunity for participants to test drive vehicles from Dennis Eagle and other leading suppliers in the ride and drive area.

CONFERENCE & MEETINGS

The indoor exhibition boasts three conference theatres, hosting a range of focused seminars and debates tackling the key issues and topics. Key sessions include a focus on the resources and waste strategy, Brexit and apprenticeships.

Visitors are also invited to host their own meetings at the show and can take advantage of free bookable space, open for meetings between 2 & 50 people, providing a private space in which to work and do business.



NETWORKING

Running alongside the main event, are a series of networking events designed to bring people together in a positive networking environment. Events include; a Women in Waste breakfast meeting, Meet the Buyer events and live music at the 'Inn on the Green' pub – A tongue in cheek reference to the old events down on the south coast at Paignton.

The show will also play host to the waste and recycling industry's first event charity white collar boxing event. With more than 10 bouts scheduled between leading industry figures, the gala dinner, which takes place on the evening of the first day will raise money for Child Bereavement UK.

For more information about visiting or exhibiting, contact info@letsrecycle.live or call 0207 633 4518



Blue is a one stop shop for Prichard's Contracting

Prichard's Contracting takes advantage of being able to purchase all their wood recycling equipment through Blue, instead of making several purchases through different suppliers...

Over the past 24 years, Prichard's have grown immensely, and diversified, since it first began as a Plant Hire Company at Tom Prichard's father's farm in 1995. Today the firm offers a wide range of services which include; demolition, site clearance, ground remediation bulk earthworks, infrastructure services, waste management and recycling. With more focus on the Recycling Industry over the past few years, it is this sector that become one of the biggest parts of the company, as Prichard's operates four waste sites across South Wales.

Prichard's has recently constructed a community recycling centre in Llantrisant, where the firm processes a mixture of waste, collected from local councils, as well as deposited by the public. Securing several large-scale contracts, meant that the site had high volumes of wood waste that they needed an outlet for. Consequently, Prichard's decided to shred the wood for Biomass, so began the process of investing in a wood recycling process and two biomass boilers at the Llantrisant site.

Prichard's first started their Biomass production with a Doppstadt AK 230 high speed shredder, but soon realised they needed a bigger machine due to increased tonnages coming in to the yard, as well as create a very specific biomass chip size for their new boilers. Therefore, the company required a further machine to not only increase the efficiency of their process, but also to enable them to produce a specific biomass wood chip specification. Mike Crooke, Recycling Supervisor at Prichard's decided to contact Brian McNabb from Blue Southern and requested to have a Doppstadt slow Speed Shredder DW 3060 K on demonstration to evaluate whether it was the right machine for their production.

Tom and the team were so impressed with the product the shredders were producing together and the excellent re-sale value Doppstadt holds, that they quickly decided that the Doppstadt DW 3060 K was the right investment for the company. Tom Prichard explains "The Doppstadts are working extremely well for us and when I'm buying machines, I always look at their re-sale value, we always try and buy leading market brands that retain their value, and Doppstadt does that"

After the success of the Doppstadt machines, Mike decided to contact Brian again as the company required a new material handler and urgently needed to replace their old screener due to it breaking down. Brian suggested that the company should go try the Powerscreen brand and specifically Chieftain 2200, as it would enable Prichard's to increase the amount of material they process. Furthermore, the Chieftain 2200 boats two double deck screen boxes, which would enable the firm to separate the processed wood into three sizes and circulate any unwanted oversized product back into the shredders, ensuring the firm achieved their desired 80ml wood chip.

Prichard's also took a Fuchs MHL250 on demonstration, as they wanted to compare its performance to another competitor machine. However, Mike and Darren xxx, who is one of the Plant Manager at Prichard's, both agreed the Fuchs was significantly better in both power and comfort, hence, it was an easy choice to go with the Fuchs MHL320. Mike explains "I spend about 14-15 hours a day in that cab and it is very nice environment to work in. It's smooth, versatile and easy to use. We tried a competitor machine and it didn't come close to the Fuchs' performance." Darren also added "Fuchs have created a brand, where if someone mentions material handlers you instantly think of Fuchs, so it has a good name to invest in."

The Prichard's:





- Material is fed into a Slow Speed Shredder – Doppstadt DW 3060 K by a Fuchs MHL250.
- Material is shredded to <200ml.
- Ferrous metal is removed by over-band magnet.
- Material feeds into a High-Speed Shredder – Doppstadt AK 230.
- Material is processed further processed further to <80ml.
- Material travels into a Powerscreen Chieftain 2200 where it separated into three sizes; 0-10ml, 10ml to 80ml, oversized
- <10ml material falls through 0-10ml woven wire mesh screen deck
- >10-80ml material is separated by 80ml woven wire mesh screen deck
- Oversized material is recirculated back into Doppstadt DW 3060 K to be processed again

The performance and re-sale value weren't the only winning factor for Prichard's choosing to deal with Blue, as Blue's Spares and Service is a huge benefit for the firm. Tom Prichard comments "Blue's Service and Spares parts is a big advantage, as their backup and aftersales service is always good and reliable. The right back up from a company you are buying from is so important, because if it isn't reliable backup, it essentially means more downtime will occur." Jason, who also manages the maintenance of the machines within the firm adds "Spares are good to deal with, Rebecca is excellent and very knowledgeable. With other firms, I can give them a list of parts I need and then I have to chase and chase, but you don't have to do that will Blue, you know they will get it sorted quickly."



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2018 marks a record year of sales for Eddy Current Separators

In 1969, Eriez Magnetics was the first company to patent both permanent magnetic and electromagnetic Eddy Current Separators (ECS). Just a few years before, at a product seminar held in front of Eriez Headquarters and industry guests, the world's first Eddy Current Separator was demonstrated by Bill Benson who developed the unit alongside Eriez Research Engineer, Tom Falconer. Today, thanks to the benefit of more powerful magnetic materials, Eriez' Eddy Current Separators are successfully installed worldwide in the recycling industry.

In 2018, a record number of over forty Eddy Current Separators units were sold into the European market, providing recycling companies with optimal recovery of valuable non-ferrous metals from all waste types.

Eriez has over 25 years of experience in manufacturing Eddy Current Separators and the design has been refined through extensive research development and material testing. As a result, Eriez has developed a comprehensive line of non-ferrous metal separators in different configurations and size ranges to fulfil the diverse requirements of the industry.

The very first developed were the HD and LC models, designed for the separation of aluminium cans and marked the beginning of the evolution of Eriez Eddy Current Separators. The following generations, the ST and LT units, saw a deeper field design of the LT model enabling increased performance when processing larger particle sizes +50mm whilst the ST model was designed for smaller non-ferrous



metals and PET waste. Today, the RevX-E ST22 ECS unit offers unprecedented recovery of non-ferrous metals as small as 1-2mm and continues to be at the forefront of the industry.

For complete metal recovery, Eriez manufacture a range of modular systems to separate ferrous and non-ferrous metals, designed to incorporate additional separators including overband magnets and magnetic drums, into stand-alone systems.

Due to the increasing sales of ECS units, a new extension to Eriez' European manufacturing facility, was completed in autumn 2018. The investment of the new facility is set to increase the production capacity of Eddy Current Separator rotors by a third, per year.

<https://www.youtube.com/watch?v=7OD71rtd63w&t=2s>

Elite Precast Concrete are the largest manufacturer of interlocking concrete blocks in the UK

Elite Precast Concrete Ltd are the largest manufacturer of interlocking concrete blocks and traffic management / security barriers in the UK. Elite operate from two factories in Telford where all of the precast concrete products are manufactured using the same high strength (50N/mm²) concrete which is batched on site from high quality BS EN approved aggregates and cement.

They have been in business for over 11 years and have never used recycled / waste materials in the concrete which is in turn therefore extremely durable and has got a design life of over 100 years.

The interlocking blocks have a huge range of uses from the construction of material storage bays, retaining walls to being used as counter weights (also known as "Kentledge blocks") for perimeter hoarding and security fencing.

Elite's concrete barriers are used throughout the UK for a huge variety of projects playing vital roles in temporary works schemes such as traffic management, edge protection, perimeter security and workforce safety (reducing the risk of collisions with HGVs).

Elite are also approved for use in the rail, defence and nuclear industries and in the utility sector being proud holders of RISQS, UVDB and JOSCAR accreditations.



The company holds kitemarks for a wide range of drainage products and use the same highly regulated Quality Management Systems for the manufacture of all of the products.



Whilst Elite have a proven track record in supplying many of the major infrastructure projects in the UK including 2012 Olympics, 2014 Commonwealth Games, Crossrail, HS2, Hinckley Point C, A14 and London Tideway, the company also prides itself on offering "good old fashioned customer service" to all of its clients. This means all clients (from private housebuilders to international joint ventures) get one to one personal service from one of Elite's experienced technical sales team.

Logistics are provided by one of Elite's trusted partners which combined with Elite's massive stock levels means that clients get 48 hour lead times and delivery via all types of vehicle including standard flat bed artics, rigids, crane off-load, moffat / telehandler off-load, FORS Bronze, Silver and Gold, Crossrail, CLOCS and HS2 / Euro 6 compliant vehicles and a next day pallet line service for smaller orders.

Founded in 2008 Elite Precast Concrete Ltd are one of the UK's fastest growing precast concrete manufacturers offering a wide range high strength interlocking blocks, traffic



management / security barriers and counterweight / kentledge blocks for perimeter security and hoarding / fencing projects (amongst many other products)

To see the full range take a look at the website – www.eliteprecast.co.uk For further information / prices you can call 01952 588885 or email sales@eliteprecast.co.uk



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“It’s the best thing we’ve done so far...”

According to co-Directors, Iain Saunders and Rob Darlington, of Asphalt Surfacing Ltd on the recent purchase of their first Volvo P6870C paver

Bringing more than sixty-five years of joint experience within the ‘Asphalt’ industry, Iain Saunders and Rob Darlington decided to join forces to establish their new venture together just seventeen months ago.

“Rob has years of experience working for several large contractors from the ground up, from working in paving gangs to managing fleets of equipment and teams of men, whilst my background is on the quarrying side - selling asphalt, aggregates and quantity surveying,” explains co-Director, Iain Saunders. “Bringing our extensive experience has got Asphalt Surfacing off to a fantastic start and we’re continuing to build our portfolio of regular customers operating from two offices - one in Dursley in Gloucestershire, the other in Llantrisant, South Wales.”

“We employ a team of twelve men full time and, until now, we’ve hired in wheeled pavers to cover our contracts. With Rob’s own experience of operating ABG and Volvo pavers and the preference of our crews, our collective choice has always been for Volvos! The volume of work we are now undertaking from both regular and new clients, has made commercial sense to purchase our very first paver and it just had to be the Volvo P6870C,” he adds.

The P6870C is powered by a Volvo D6 Stage-IIIB compliant 175hp engine. At its heart is the EPM II feature – an electronic paver management system which incorporates a ‘Settings Management’ feature allowing the operator to store up to twelve parameter settings for major functions such as screed temperature, tamping & vibrating, conveyor, auger & paving speeds.

The machine has other unique features such as ‘Smart Power’ offering optimum power for the job together with 6x6 ‘Smart Drive’ technology for unparalleled continuous independent traction control over all six wheels. Even on the most difficult bases, tractive forces are automatically adjusted according to the weight of material in the machine’s 12-tonne capacity hopper.



Screed performance is a distinct feature on Volvo pavers. The P6870C has a variable screed width of between 2.5 and 5 metres in standard configuration but can be fitted with optional extensions to provide a generous width of 9 metres. The machine has a theoretical output of up to 700 tonnes per hour at varying screed widths and depths. >





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In addition, it demonstrates a high degree of manoeuvrability, thanks to the 'Active Steering' feature with an inside turning radius of just 2.5 metres. "I'm really impressed with the machine's ability to turn on a sixpence," says Rob Darlington. "It's really proving to be an optimum paving machine for us working in confined areas, yet still has a significant production output for road surfacing contracts," adding that the machine can be doing just 24 tonnes up to 400 tonnes in a day's shift. "It's all about getting the job appraised correctly, delivering a quality service to our clients and making a reasonable margin at the end of the day."

"Another critical factor is the level of support when we need it and certainly our experience to date with SMT's mobile engineer, Simon Ford, has been exemplary. When we've had the odd issue, Simon is there right away and getting it sorted. Again, this is critical for us and another reason why we've chosen the Volvo paver," says Rob.

In addition to the paver, Asphalt Surfacing has also purchased a Volvo DD25B tandem roller and both machines have been painted in the company's white livery. "Although we are based in Gloucestershire and South Wales and have picked up some long standing contracts with local authorities and customers in this region, we will follow our clients anywhere in the country and are keen to promote a 'can do' approach accordingly," says Iain Saunders.

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

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SN Engineering's in-house designed & built range of loading bellows & dust filters, which enjoy the benefit of preferred supplier status with many leading multinational organisations, has ensured major growth over the past decade. With our continual R&D in these two fast growing sectors has benefitted

from many enhancements over this timeline, all aimed at improving customer operational & maintenance experience.

Our range of Outloader® loading bellows, for road & rail tanker loading &/or stockpiling has seen the marked growth in our Series 7000 / 7001 go from strength to strength. Added to this, our Series 8000 is fast becoming the preferred unit for new installations where these can be designed in.

The Series 8000 Outloader® benefit from a high efficiency integral dust filter c/w extraction fan & compressed air receiver (for auto clean down) thus the requirement for ducting back to existing, or new, standalone filter is eliminated. As this offers a totally closed loop system, that not only is compact & aesthetically pleasing, ensures the filter dust is re-introduced into the loading system thus eliminating the need for clients to handle &/or dispose of collected dust.

Cubis Systems Chooses a Rapid International Bespoke Static Concrete Batching Plant to Future-Proof Output and Quality

Cubis Systems, an operating division of one of Europe's leading building materials companies, is the global leader in the manufacture of access chamber and ducting systems, used in the construction of infrastructure networks. Headquartered in County Armagh, Northern Ireland, the company has seven manufacturing sites across the UK and Ireland and exports to over 25 countries worldwide. In 2018, Cubis chose a bespoke Rapid concrete batching plant solution for its County Armagh site, in order to support the future demands in both output and quality required by its customers.

made the process of achieving desired outputs and tensile strength of the final product more difficult to control and time-consuming.



Cubis operates across 7 sectors, including telecoms, highways, rail, light rail, water, power and energy and the Ministry of Defence. Its extensive product offering includes network access covers and chamber systems, cable protection products, conductive concrete and chamber accessories. Cubis's enviable client list includes BT Openreach, EDF, Highways Agency, Eircom, Network Rail, SNCF, Tyco, Virgin Media and many more internationally recognisable companies.

A new system required for greater flexibility and consistency

Until 2019, Cubis's prior concrete production system involved the use of a volumetric truck mixer. This production method



With a desire to continue targeting key global markets, Cubis required a new system which offered a greater degree of consistency, flexibility and increased outputs to keep pace with growth. With this in mind, a project team was established to identify the best available machinery. Cubis desired to not only find appropriate equipment but also establish a partnership to develop solutions collaboratively.





Colin Bridges, Performance Manager at Cubis, explained, "We wanted a company who could develop the process to remove inconsistent and uncontrolled concrete mixes to guarantee a higher quality product and to allow us to control mixes to design higher strength products, ultimately giving us the capability to enter markets we previously couldn't compete in. It was also important to be able to draw on readily available expertise, backup and support. During the tendering process, it became clear from an early stage that Rapid International could satisfy all our requirements."



The Rapid solution

The bespoke Rapid concrete batching plant, co-developed with Cubis, integrates a Rapid RP500 1 door Planetary mixer, positioned on a specifically designed platform, granting easy access for maintenance. The Rapid Planetary concrete mixer features outputs of 0.5m³ per batch, a pneumatically operated discharge door with heavy duty mechanisms, extra thick chill-cast wall and floor tiles and a 22kW 3-phase motor. The mixer is ideal for precast applications, making it a perfect choice for Cubis. The mixer's star mixing action creates high turbulence resulting in a thoroughly consistent and homogenous mix. The mixer's motor and gearbox are

positioned on top of the mixer allowing easy access for cleaning and maintenance, a key consideration for Cubis. Cubis also opted for an optional Rapid Jetwash to enable fast and powerful mixer cleaning. The Rapid Jetwash is a fully galvanised, self-contained, high pressure mixer washout system used for fast and effective mixer clean out. Each wash cycle takes just four minutes and the 2,000psi unit can power up to four mixers simultaneously.



The bespoke plant also comprises of 2x 20T aggregate storage bins with pneumatic discharge doors (discharging onto the weighed belt below) and 300W electrical vibrators. The plant's integral 600mm weigh belt is capable of delivering up to 200TPH and has a weigh capacity of 0.75m³ per batch. The plant also features a 0.75m³ mixer filling skip.



Installation to the letter

Colin Bridges, Performance Manager at Cubis, concludes, "Rapid has delivered on all fronts – from expert advice during the consultation period, to the project being delivered on time. The action plan of installation was followed to the letter, and everything was completed efficiently and professionally – including the daily support offered on site in the early implementation period. Cubis has benefited from this project, through improved Health and Safety, higher quality and consistency of concrete mixes, increased productivity, reduced maintenance and downtime, reduction in material waste and a cleaner working environment."





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- Issue 55

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A new chapter for Finlay Crushers and Screeners in the UK Market



Sean Warburton - Molson Finlay MD

Following the acquisition of the Finlay Group by the Molson Group in June 2018 the Finlay Group has recently been rebranded to Molson Finlay. As part of the re-branding exercise Aggregate Processing

Solutions (APS) previously a Finlay Group company, will become Molson Washing.

The decision to rebrand followed a frantic 2018 which saw significant growth throughout the Molson Group. The objective of the re-brand exercise is to align the individual organisations under the Molson brand and provide a clear proposition of all the Groups abilities, whilst still maintaining each unique business's identity and explaining their focus.

The HUB team went along to interview Sean Warburton - Molson Finlay MD to talk in detail of the plans he has for Molson Finlay.

Sean has had a very successful career with several industry market leaders in the role of MD. In his current position he runs three businesses – Molson Finlay, Finlay Hire Ltd and Molson Washing.

Sean, commented, "This marks the start of a new chapter for Finlay crushers and screeners in the UK market. Since the acquisition there has been a real uplift in performance by the whole team. Not only does this mean a new name for us, allowing us to highlight the other product ranges to our customers through the wider Group, we also benefit from shared resource within the Group, allowing us to offer a better experience for our customers in all aspects."



Investment in the rebranding:

Sean, continued, "The rebranding has given us massive growth potential and with a key focus on investment in staff and business infrastructure, our team of 37 salesmen will be able to function efficiently and present our multi-product portfolio to

our client base providing us with huge opportunities, in short it's all about customer satisfaction."

Investment has been considerable in the form of new premises which will open in February in Stone. Still located in the Staffordshire area, the new offices will not only provide a more modern and practical services, but also fulfil our immediate growth plans.

We have a new a back-office infrastructure coming on-line which includes two completely new IT systems; one of which will be a £1 million intermediary system for the group which is currently being installed at Molson Equipment."

Sean also told us about the huge focus on telematics



in the form of Terex T-Link which he saw as a huge refinement for operators to enable them to get the best out of their fleet. He added that this would be an added benefit for Molson Finlay clients which with Molson dedicated monitoring staff it would be a huge plus for clients on a day-to-day basis.

As the sole Terex Finlay dealer in England and Wales it is important that Sean and his team tap into the Molson brand as this is of prime importance.

Sean, commented, "We are forecasting more than 45% increase in sales which for us in real terms over 140 units in 2019. As far as the group is concerned this will provide circa £30 million contribution towards group turnover."

Molson Finlay are also the biggest Terex Finlay dealer in the world and recently placed an order with the factory for over 140 machines which for Molson Finlay is the largest single order they have placed and increases their machine purchases by over 45%. In terms of the Irish factory this also represents the largest single order in the history of the company.

Sean, commented, "There is a current shortage of stock machines on the ground so what we are trying to do is place machines on the ground with this large order. We are selling as fast as they are delivered and utilising our 360-degree relationship with our clients



is proving very successful. Additionally, our salesmen also introduce one of our specialists to the client making it a very smooth process.

The most popular machines currently are the 683/694/883+ screeners and the J-1170 crusher with Impactors making a come-back in the industry."

Finlay Hire:

Although Sean manages all three businesses Finlay Hire will retain the branding it currently uses to signify a clear separation as a business that is not designed to compete with customers but offers a short-term solution to alleviate any customer production problems.

Molson Washing:

Molson Washing which was formerly APS will lead the market in the design and build of aggregate washing systems and represents a portfolio of world leading brands.

Sean commented, "We are currently in the development stage of a new washing concept which we have designed and patented which is very exciting. It is a portable concept that is easily assembled and can be processing in a short time frame which will create more opportunities for our customers and Molson Washing."

With an open day planned for 2019 and several high-profile industry exhibitions it is clear that Molson Finlay are a company to watch.



Superior Industries to significantly increase footprint at Bauma 2019

Superior Industries Inc., an American-based manufacturer and global supplier of bulk material processing and handling systems, says its presence at bauma 2019 will be three-times larger than previous editions of the world's largest trade show. Today, the builder of crushing, screening, washing and conveying equipment unveiled its display plans.

Inside Hall B2 at stand 107, Superior plans to showcase its brand new Alliance™ Low Water Washer. The one-of-a-kind technology allows crushing operators to wash fines within their crushing circuit. It saves from transporting the fines to a separate wash site, which requires costly trucks and harmful re-handling of the material.

Available for production rates of 90 – 272 MTPH (100-300 TPH), the Alliance Low Water Washer accepts a dry feed from the crushing circuit. An agitator converts the material to a slurry before an integrated dewatering screen removes excess water, leaving as little as 8% moisture in the discharged manufactured sand. Superior says existing units have required as little 45-90 m3/hour of water (200-400 GPM), depending on production rates. That's significantly less water consumption than a traditional screw or cyclone.

In addition to wet processing equipment, Superior is planning to showcase a group of conveyor components. Included in this display are:

- Chevron® Pulley: Invented at Superior in 2007, this unique v-shaped wing pulley deflects oncoming rocks and other

material, which prevents it from trapping between the pulley's wings. No rocks in your pulleys means longer lasting conveyor belts and pulleys.

- Moxie® Roll: Made from a composite blend, this steel alternative idler sheds sticky material to maintain properly tracked conveyor belts. The rolls are 50% lighter and at least three times quieter than steel.
- High Performance DT Idler: For improved performance in high capacity applications, the double tube (DT) design features inner and outer tube construction for increased rigidity and better bearing insulation.
- Exterra® SFL Dual Belt Cleaner: This one-of-a-kind conveyor belt cleaning solution is a primary and secondary scraper sharing one mounting pole. This allows for quick, uncomplicated installation. Tension is set just once – at installation – and automatically maintained for the life of the blade.

In addition to these products, Superior plans to showcase videos and presentations of all its products including crushing, screening, washing and conveying equipment for bulk processing and handling of materials in quarries, mines, and marine and rail terminals. A dozen product and applications experts will be available throughout the duration of the bauma.



“Together. Now & Tomorrow.”: Liebherr at Bauma 2019

- Innovative Liebherr construction machines on the outdoor terrain at stand 809-813
- Liebherr components in hall A4, stand 326
- Liebherr attachment tools in hall B5, stand 439
- Technological highlights of today, innovations of tomorrow

Biberach an der Ri , Germany, 20 December 2018 - From 8-14 April, Liebherr will give attendees of Bauma 2019 a unique chance to experience its latest innovations first-hand, which range from construction machines, material handling, mining and components. Visitors can look forward to seeing many new technologies and other practical innovations at Liebherr's 14,000 m2 outdoor stand (809-813) and its indoor stand in hall A4, number 326.

At Bauma 2019, Liebherr will present all the latest product developments and innovations from across the whole range of construction machines, material handling and mining, as well as components. The Group is confident that these innovations, along with its improved sales and service network, will lead to further growth. This is also reflected in the current demand for the Group's products and services.

According to prognoses for the current business year, the Liebherr Group will once again increase revenues, even surpassing the €10 billion-euro mark for the first time in the company's history. Drivers for growth in 2018 were construction machines and mining equipment, business areas which grew by around 10 percent in total. The two best-selling divisions, Earthmoving and Mobile Cranes grew once again; the former experienced growth in the high single digits and the latter in the double-digit range. The sales increase in the Mining division was even more pronounced thanks to an uptick in the extraction industry. The Tower Cranes and Concrete Technology divisions also experienced growth.

With its overarching message, 'Together. Now & Tomorrow', the Group will give attendees of the trade fair a chance to learn more about its products, innovations and trends in the construction machinery industry. In addition, all the stands will feature many different activities to bring the 'Together. Now & Tomorrow' message to life for attendees.

An overview of Liebherr's Bauma trade fair stands

Construction on Liebherr's stand on Bauma's outdoor terrain in Munich began a full half year before the opening of the world's top trade fair for construction, material handling and mining machines, vehicles and equipment. With over 14,000 m2 of space, the open-air terrain (809-813) will once again provide space for more than 60 exhibits. Among the many products on display will be new innovations and developments in the product categories of tower cranes, mobile and crawler cranes, earthmoving, material handling, deep foundation, concrete technologies and mining.

The Liebherr Group's stand at Bauma 2016.



Liebherr will also present its latest components in hall A4 (stand 326) on a showroom floor of nearly 450 m². Here, the focus will be on condition monitoring and system solutions.

In hall B5 (stand 439), guests can learn more about the latest innovations from Liebherr's extensive attachment tools program.

Visitors can also find out more about internships and entry-level positions with Liebherr at the Career Point on the company's outdoor stand as well as in the ICM Foyer (stand 308). Here, Liebherr will be one of 16 top companies taking part in the THINK BIG! event for schoolchildren.

Technological highlights of today, innovations of tomorrow

For Liebherr, gathering feedback from customers, machine operators and industry insiders is crucial to facing the future together. This makes Bauma a perfect platform. One of the key topics for the future is digitisation, which is now impacting all product areas; in terms of assistance systems or service and training options, for example.

At Bauma 2019, Liebherr will debut a new series of Tower Cranes with fibre ropes which will be available for sale starting in April. This new, high-strength fibre rope is around one-fifth the weight of conventional steel rope, but has four times the lifespan and is much easier to use. Liebherr will also unveil five new mobile cranes at the trade fair. These build on proven technologies to provide better performance, efficiency and flexibility. The construction machine manufacturer will also present a new crawler crane with a load capacity of 300 tonnes. It features innovative assistance systems that increase safety and make it easier to handle.

Starting in January and throughout 2019, Liebherr will be introducing its new generation of earthmoving crawler excavators. During the first phase, seven new models will be

released in the 22 to 45 tonne range. The new, eighth generation crawler excavators guarantee more power, more productivity, increased safety and greater comfort for the operator.

For the new XPower large wheel loader, trade visitors can also look forward to a total package with many smart assistance systems. Features also include the new rear bystander detection and a built-in, sensor-powered tyre-monitoring system. With these and other assistance systems, Liebherr offers total solutions to optimise safety and comfort during everyday wheel loader operation. All these systems are developed by the Liebherr Group so they can be fully integrated into the control systems of the machinery.

In the mining area, visitors will have a chance to experience the power of Ultra-class mining trucks and excavators. A single dashboard makes fleet management easier than ever.

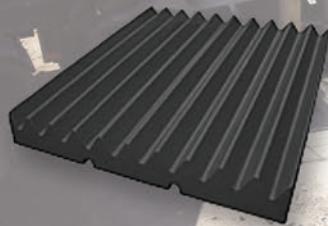
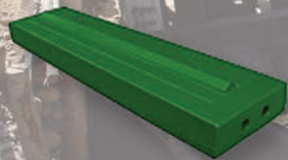
Construction-industry enthusiasts should check out the completely redeveloped 42 M5 XXT automatic concrete pump for the mid-range class. Many technical parts come from Liebherr's own component production. One outstanding product is the new Liebherr Powerbloc drive unit for the pump system. All hydraulic switching and metering elements are fully integrated. This eliminates the need for many hydraulic lines and other parts.

At the fair, Liebherr Components will also reveal the demo version of an app which shows the extensive functionality of all Liebherr's condition monitoring components, from diesel engines to energy storage, hydraulics, transmissions and slewing bearings. In the future, this will enable machine manufacturers to inform fleet managers, service personnel and machine operators about the condition of their components. The Components division will also be presenting a full range of new products.



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TDL Ties Up Europe's Biggest Ever SANY Deal

Back in 2014, TDL Equipment became the official UK partner and distributor for China's largest excavator manufacturer, SANY. Since the launch at PlantWorx in 2015, the SANY brand and reputation has gone from strength to strength amongst owners and operators alike.

Fighting off competition from some of the industries more established brands such as Caterpillar, CASE and Volvo, the £2 million deal is made up of 23 machines and is not only the largest ever SANY order from a European dealer but is the biggest single investment for the new Glasgow based owners, Centre Plant.

Set up 26 years ago by Pat McBride and his father Peter, Centre Plant is the sister company to Allma Construction, a leading infrastructure and groundworks company. The pair boast 80 years experience in the construction industry and with 55 excavators between 13-35 tonne alone, it's fair to say, both TDL and SANY had to meet high expectations.

Centre Plant had a long-established relationship with Case but having heard Allma were looking to replace machines and possibly supplier, Grant MacLaine, TDL's regional sales manager explains how Europe's biggest SANY deal came about, "I contacted Willie McMillan who at the time didn't know much about the SANY products. Initially the discussion was about replacing 12 machines so we offered them a 14 and 21 tonne machine for demo".

Impressed by TDL's presentation, Managing Director, Pat McBride explained how the decision to invest in SANY was made, "We put two of our most experienced operators on the two demo machines, guys who we knew would moan and groan if there were any problems. The feedback was very positive". Who better to provide such positive feedback than experienced operator Donald McCall, Donald put the SANY SY215 demo machine to work giving an all round glowing report emphasizing how the "digging power at full stretch is very impressive" combined with the impressive strength, he explained how "a full bucket of wet mud at a couple metres depth is no both. The machine is a true all round performer, even at low revs".



The SANY quality spoke for itself and following the successful demo period, the order went from 12 machines to 23 machines, ranging from 13 ton to 36 ton featuring 15 SY135's, 7 SY215's and the SY365 due in shortly. The SANY machines have proved their quality time and again with standard spec including automatic air conditioning, two-way auxiliary hydraulics, rotation circuit and the SANY 1-3-5 warranty package provides peace of mind – offering the new owners 1 year/ 2000 hours on the machine itself, 3 years/ 6000 hours on powertrain and major components and 5 years/ 10,000 hours structural warranty on the chassis, boom and arm.

But Centre Plant didn't stop there, their machines come complete with Hill Tefra hydraulic hitches, Strickland buckets, vandal guards, boxing rings and green beacons.

Centre Plant are one of a growing number of SANY customers, with companies such as AB2000, WH Malcom, Garriock Bros and Dow Waste Management investing in the brand. Thanks to the quality and power of the SANY products and the strong aftermarket philosophy from TDL, the team are excited to see the continual progression and growth of the brand as more people begin to break away from the "norm".

For more information on TDL Equipment, please visit the website: www.tdlequipment.com or call the 24/7 hotline on: 08444 99 44 99

McCloskey International's newest products take the stage at AGG1/World of Asphalt

Maneuverability and versatility key attributes of new designs...

AGG1/World of Asphalt visitors will get a first look at McCloskey International's new products that are compact and highly mobile. The newest addition to the stacker range, the All-Terrain ST80T with lift axle, will be front and center, showing off its ability to switch from tracked to wheel in minutes. The latest design for the compact crusher, the I34R, will also be featured at the show in Indianapolis, Indiana February 12-14, 2019 at Booth 37070.

TRACK STACK AND ROLL

The All Terrain ST80T blends all the benefits of onsite track mobility with the high productivity of a radial conveyor. The ST80T has a lift axle option which allows it to switch from track mode to radial in seconds.

Designed for use in any terrain, the All-Terrain stackers, ranging from 60' to 150', are easily moved site to site without the need to remove the wheels for transport. Built-in levelling indicators allow operators to position the stacker regardless of the ground evenness, with independent hydraulic jack legs to stabilize once in place. The McCloskey design also eliminates the need for any additional equipment, delivering a clean radius without material buildup.



All-Terrain ST100T with Lift Axle USA

The stackers feature a unique rear counterweight that counter balances the tracks and wheels, which are behind the stacker's centre of gravity. The design enables a much higher stockpile capacity, with the radial wheels set well back. The rear counterweight also firmly anchors the tail end during radial mode, delivering greater stability to the stacker while in operation.



I34R Ault Equipment



134R Concrete Recycling UK



Lippmann_LS-520 Triple Deck Screener



McCloskey Washing Systems Compact Sand Plant



ST80T Lift Axle

SMALL FOOTPRINT - BIG RESULTS

AGG1 is also the perfect opportunity for McCloskey International to showcase the I34R compact crusher line as a solution for aggregates producers needing small footprints and manoeuvrability, while having big production requirements. The I34R offers the versatility of a full recirculating system and is suited particularly to applications in aggregates, construction and demolition recycling and asphalt recycling.

COMPACT SAND PLANTS TOP OF MIND FOR MWS

McCloskey Washing Systems (MWS) will be on-site at AGG1/World of Asphalt to present the latest additions to the CSP (Compact Sand Plant) line, which delivers superior separation efficiency, produces the driest, drip-free final washed sand product, and produces up to two in-spec sands, to desired grade, at up to 250 total tph.

LIPPMANN-MILWAUKEE'S NEW PRODUCT RANGE AT AGG1

Located at Booth #36102 at AGG1, Lippmann-Milwaukee is a leading manufacturer of aggregate crushing equipment for processing applications, and a member of the McCloskey group of companies. Since its inception, Lippmann has become synonymous with highly productive and reliable heavy-duty jaw crushers that are built to last. The new product range, tracked and wheeled mobile crushers, screeners and stackers, will be introduced at AGG1, creating a complete product line.

Over the past twelve months McCloskey International has continued to add new

dealers across all regions to represent the number of new products that are added regularly to the company's portfolio. Many of these dealers will be attending AGG1/World of Asphalt 2019, and visitors will be able to connect with them during the show and after.

McCloskey International Limited designs and manufactures innovative crushers, screeners, stacking conveyors and washing systems. Since 1985, McCloskey International has been exceeding expectations with reliable, durable and high performing products. McCloskey equipment is used across industries including aggregate, mining, construction & demolition, waste management & recycling, landscaping and composting to help achieve profitable volumes for customers around the world. For more information on McCloskey visit mccloskeyinternational.com.

McCloskey Washing Systems (MWS) designs and manufactures a full range of modular, mobile and static washing equipment for the aggregates, waste & recycling, mining and construction & demolition sectors. A division of McCloskey International, McCloskey Washing Systems shares a customer driven approach to product development that has led to the investment in a new centre of excellence, which will complement the existing facilities in the UK, Canada and the USA. For more information and for a full range of washing equipment offered by McCloskey Washing Systems, visit mccloskeywashing.com or you can follow MWS on LinkedIn.



Over its 95-year history, Lippmann has developed a gold standard reputation for heavy duty stationary and semi mobile products. For more information on Lippmann-Milwaukee please visit lippmann-milwaukee.com



Taylor & Braithwaite announce their next big step in ensuring nationwide aftersales coverage

Taylor & Braithwaite (T&B) directors, Paul Taylor and Ian Burton have joined forces with Steve Corner and Brian Conn to form sister company TBS Plant Ltd (TBS).

The newly formed company will function in the image of T&B, supplying market leading plant and equipment products from some of the world's top manufacturers; Hyundai, Rubble Master, Maximus Crushing & Screening and Pronar, as well as maintaining the high standards of aftersales support put in place by T&B.

TBS have established themselves at Ryhall in Lincolnshire and will be covering the counties South Yorkshire, Derbyshire, Nottinghamshire, Lincolnshire, Leicestershire and Rutland.

Due to growing demand for the equipment supplied by T&B, Paul and Ian saw this as an opportunity to continue the high level of service they offer their customers. The TBS depot in Lincolnshire will allow customers to get the support they require with T&B and TBS now able to offer national aftersales coverage for a number of their customers.

Ian Burton said "the opportunity to create TBS Plant Ltd as our sister company demonstrates the support that we have from the suppliers that we currently partner. It is an exciting

time for T&B as we are able to support TBS and offer them our experience and develop them in our image"

Steve Corner said "both myself and Brian have known Ian & Paul for several years now and in the past have worked very closely with them with different manufacturers. So, when the opportunity arose to set a business up in partnership with these guys it was a very easy decision to make.

What excites us the most is the aftersales potential with T&B and TBS, what has become very clear over the last few years of knowing Paul and Ian is how much they focus on supporting their customers from top to bottom, with myself and Brian being of the same mind set means not only can we offer a national coverage to our customers but the combined knowledge and experience of both T&B and TBS means we can actually back that statement up".

Taylor & Braithwaite Ltd
www.t-and-b.co.uk
 017683 41400

TBS Plant Ltd
www.tbsplant.co.uk
 01780 437 235



Disc Magnetic Separator for Processing Coltan

Master Magnets has manufactured and despatched a Disc Magnetic Separator to Nigeria for use in the processing of Coltan (a combination of columbite and tantalite). The Magnetic Separator is used in a process to extract primarily Tantalum. Tantalum is a key raw material in the manufacture of batteries for electric cars, mobile phones and other electronic products. Deposits of Coltan have been mined in Central Africa for several decades.



Disc Magnetic Separator in the final stages of manufacture

Master Magnets is one of the world's leading designers and manufacturers of magnetic separators for the mineral processing sector. The company's manufacturing and test facilities are based in Redditch, UK. Over several decades, they have developed an extensive portfolio of high intensity magnetic separator for purifying and concentrating minerals. Laboratory sized versions of many of the designs are found in their Technical Test Facility in the UK.

The Disc Magnetic Separator enables the separation of different minerals with varying levels of magnetic susceptibility. Concentrated fractions of minerals are collected and then further processed.

For this new project, tests were undertaken in the Master Magnet test facility at Redditch, UK. The tests confirmed the level of separation, capacity and the magnetic separator configuration. Once completed, the samples were returned to the client in Nigeria for analysis. On receiving confirmation that the separation matched their processing requirements, an order was placed.

The Design of the Disc Magnetic Separator

The origins of the Disc Magnetic Separator date back to the early 1900s. Although manufacturing techniques have significantly changed, and more advanced machines have now been incorporated, the basic function design remains virtually the same. The Disc Magnetic Separator is widely used to ensure an accurate separation of dry minerals that have varied magnetic susceptibilities.

Typically, a Disc Magnetic Separator features up to three high-intensity electromagnetic discs, each set at a different height from a feed conveyor.

- Disc 1 – This will be set the furthest from the feed material. The objective is to extract only the most magnetically susceptible particles;

- Discs 2 and 3 – The second and third discs are set at lower gaps. This increases the magnetic force at each disc and enables the separation of different grades of magnetic material.

The magnetic intensity can be further adjusted by varying the current of each coil. This allows each Disc Separator to be designed and set-up for an individual mineral ore.

For this latest project, the test work recommended a model MDS3-375 Disc Magnetic Separator. This featured three high-intensity electromagnetic discs, (with six (6) electromagnetic coils) each set at a different height from a 380mm wide feed conveyor.

The tests had determined that the MDS3-375 Disc Magnetic Separator could process between 500 and 600 kg per hour.

Further information on the Disc Magnetic Separator, including a video featuring leading magnetic separation expert Dr Neil Rowson, can be seen in the article 'Technical Video Explanation of the Disc Magnetic Separator'.

Mineral Processing Laboratory

In the Master Magnets test facility, tests are conducted on mineral materials from deposits all over the world. From the tests, it is possible to confirm what separation is possible on what equipment. This then forms the basis of a separation guarantee for any equipment order. The Master Magnets laboratory houses one of the most extensive ranges of high intensity magnetic separation equipment in the world.

High-sided weighbridge designed for heavy industries re-launched by Avery Weigh-Tronix

Avery Weigh-Tronix, one of the world's largest manufacturers and suppliers of industrial weighing solutions and service have re-launched a high-sided weighbridge, specifically designed for heavy industries including quarries.

The new J-Series weighbridge has been recently enhanced to offer additional durability, with a 12mm thick deck plate and increased internal steel work than the company's BridgeMont® weighbridge range. The weighbridge features high sides made of solid steel beams, which guide drivers into the correct position for weighing and prevent vehicles from slipping off the sides of the bridge.

The first installation of the J-Series weighbridge took place at recycling and waste management firm A&M Smith at the company's eco-friendly site in Portlethen, Aberdeenshire.

Since its establishment in 1994, A&M Smith has expanded to become one of Scotland's top recycling and waste management companies; with depots in Aberdeen and Peterhead. The company's continued expansion brought an increase in traffic to the principle site in Bankhead, Portlethen, and when a site upgrade was needed to cope with the additional demand, the company looked to the future to create an impressive, energy efficient site which utilises local, recycled materials.

To maximise the constant flow of vehicles using the facility and minimise the queuing of HGVs and loss of time, A&M Smith optimised the traffic route for the site; moving from one weighbridge controlling both inbound and outbound weight readings, to create separate inbound and outbound weighbridge areas.

When it came to choosing a weighbridge provider, the company were already familiar with Avery Weigh-Tronix, with a BridgeMont® weighbridge installed since 2012 at the Peterhead site, and a J-Series at the Bankhead site which had been in use since 1997! Despite its age, the J-Series bridge



The J-Series weighbridge used for inbound weight readings



A&M Smith HGV weighing out over the new J Series weighbridge

was still extremely reliable, and owner Scott Smith was looking to replicate this performance with his next purchase; "The durability of our existing J-Series weighbridge made Avery Weigh-Tronix the natural choice of supplier for the next one."

Scott and his team purchased a new, Avery Weigh-Tronix J-Series weighbridge to use for controlling inbound weight transactions. As the existing site bridge was still extremely reliable, the company refurbished it to use for outbound readings.

Keeping health and safety in mind, the site's purpose-built office (which combines the operational and administration functions) is situated directly between the inbound and outbound weighbridges, meaning drivers don't need to leave their cab to get a weight reading ticket, which reduces the potential for accidents on site.

The two-day bridge installation was run by the Avery Weigh-Tronix Scottish engineering team, including calibration from one of the Avery Weigh-Tronix test units – part of the UK's largest fleet of test units. As the new weighbridge forms a critical part of A&M Smith's operations, the bridge is supported by BridgeCare Total™ which guarantees 97% uptime thanks to a UK-wide engineer network.

The J Series taking a weight reading of an A&M Smith HGV





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TEREX|FINLAY celebrate '60 years of passion & innovation'

Terex|Finlay celebrated '60 Years of Passion and Innovation', as they welcomed over 300 dealers and customers to commemorate their 60th year in business milestone in Jacksonville, Florida.

The event included a dealer conference and site visit to Duval Asphalt a local asphalt manufacturing and contracting company—followed by two open days at the same site with local dealer, Finlay Eastern.

In total, an impressive line-up of eleven machines across the Terex|Finlay range of crushers, screeners and conveyors were put through their paces, working in a concrete demolition recycling application for dealers and customers to experience. The first factory production units of the fourth-generation 883+ heavy duty screener and the brand new 883+ triple shaft screener were on display and proved to be real show stoppers at the event! Other machines on display included the; J-960, J-1160 and J-1170 (direct drive) jaw crushers. Other Terex|Finlay crushers put through their paces included the C-1545 cone and I-120RS and I-140 impact crushers. The 674 and 684 inclined screens and TC-80 tracked conveyor were also part of the live machine demonstrations.

The Global Dealer Conference concluded on Thursday evening with an awards ceremony and customer appreciation dinner hosted by Terex|Finlay to recognise the hard work, commitment and dedication shown by their dealer network. The categories for the awards included Early Adopters of Innovation, New Dealership Excellence, Rising Star Award, Outstanding Achievement in Business Growth, Outstanding Achievement for Customer Support, Outstanding Achievement for Parts Business Support and Lifetime Contribution Award.



Terex Finlay Award Winners



L-R Paul O'Donnell, Dave Statham, Kieran Hegarty

Finlay Scotland and Molson Finlay both picked up the following awards at the event:

Finlay Scotland (two awards); 'Outstanding Achievement for Customer Support' and 'Early Adopters of Innovation'.

Molson Finlay; 'Outstanding Achievement in Business Growth'.



L-R Paul O'Donnell, Tom McNeill, Kieran Hegarty

In addition to these awards Tom McNeill (Finlay Scotland) and Dave Statham (Molson Finlay) were both presented with 'Lifetime Contribution' awards for their commitment to the development of the Terex|Finlay brand over the past three decades.

Paul O'Donnell, Terex|Finlay Business Line Director commented, "The teamwork across the various functional Terex Finlay teams was impressive and key to the success of the event. Special mention must be made to the Terex|Finlay Aftermarket and Customer support team whose efforts before, during and after the event were critical to the overall success and customer experience. Without their efforts these events just cannot happen."





Your strategic global sourcing partner



L to R: Gary King (Marketing Director), Shaun Edwards (Managing Director), Sarah Carnell (Company Secretary), Matt Cheetham (Sales Director)

Sourcing your products from overseas can be baffling to say the least and in this day and age companies are increasingly reliant on sourcing specific components for machine builds and even complete projects.

Complete Global Supply Chain Management is not overly common in the Quarrying, Recycling and Bulk Handling Industries but ATG has been quietly building a reputation that is second to none in this speciality.

ATG offer a complete financed project and through their international engineering teams who work closely with chosen factories to ensure that ISO processes are fully implemented, guaranteeing all parts meet the required quality standard.

Launched 10 years ATG were one of the first members of the CEA that was not a UK manufacturer and was accepted on the basis of their innovative and totally different business model.

Today ATG, with huge success behind them work with manufacturers of commodities in China, India and South East Asia and supply a range of components, assemblies and sub-assemblies to OEMS in a variety of industries including mining and construction, waste recycling, agriculture, transportation, earth moving, marine and material processing.



Managing risk to give a client the competitive edge:

The HUB team went along to the Nottingham base and sat down with the Group Managing Director – Shaun Edwards to get the lowdown on where the company are now.

Shaun originally worked for a Chinese company who were heavily into the construction industry and with the onslaught of 2008/9 global recession Shaun decided to launch ATG with a more diverse multi-industry offering.

This move proved hugely successful with diverse product lines offered to multiple industries with the parts supplied from China.

Shaun, commented, "As the business grew the managing team increased with it, and today we have 50 employees globally. Last year we experienced a growth of 30% and this year we see more increased growth with a global turnover of \$20 million. Over time we have used our expertise for product-sourcing, and it has proved a key philosophy in the business."

Shaun expanded and told us that although their main supply is currently from China their on-going focus is to further diversify the number of countries that they source the product from.

Shaun, added, "All of our growth is down to the business model which ensures our clients receive a quality product in the time frame they expect."

"Castings on crushers and recycling equipment parts are very complicated and a lot can go wrong as it's a different level of material that is used on these machines. The components are critical, and the key is ensuring is that the material used is within strict tolerance and meets the criteria. This all comes together and then products can be delivered 'fit for purpose' which is achieved by our 'feet on the ground' ensuring a correct process with components supplied to exact specification."

ATG have proved that consistency is the key with 20 engineers covering the far east. Growth was steady and in the first 5 years new teams in India and the South East of Asia worked with factories on castings, fabrications and machine components all of which were checked and despatched including a component check-list.

With logistics, scheduled delivery and finance arranged for the whole shipment 'total' ATG project management eliminates any issues and minimize the risks to the client.



Shaun further commented, "What we have found in the last few years is that customers who have bought direct, are now passing the job to us because of our growing reputation."

With industry demands increasing ATG currently find themselves in a boom period and with forward orders for the whole of 2019 the company are recruiting more staff.

New premises:

Currently looking for bespoke new premises at a second location is high on the agenda for the company and to service the projected growth it needs to be a minimum 25,000 sq. ft facility that will grow with ATG.

Working in China alone involvement is huge with nearly all containers delivered direct to the client. The company have had to understand and deal with components up to 7 tonnes in weight and the new premises must reflect this.

Further on-going development:

Shaun expanded on the future, "We launched ATG USA in 2015 and we have utilised our India manufacturers to supply the US market parts which tend to be bigger, crusher jaws for example to handle more throughput.

We also intend to grow the team in the Far East as these manufacturers are our major asset, therefore for each new product line we will add a team. We have a significant number of welding engineers and we will add production and manufacturing engineers to assist the factories because ultimately these are our suppliers and we are in their hands, so we need to assist them to produce it correctly and quicker and on-time to the cost level we require.

"Ultimately, it's becoming easier as we understand the quality required as the manufacturers now do, which over time has developed a large and friendly knowledgeable team.

"Alongside all of this we have a development plan, auditing, H&S and other key factors and we take clients and show them where the components are manufactured and then they can buy with confidence which adds to our growing reputation."

ATG are also building their team in India to eliminate total dependency on China and although dealing with a different culture it's having a positive effect on the source diversification of the business.

The UK team are also working with manufacturers in Thailand and Malaysia and are despatching a Chinese team to the factory in Malaysia to help them cope in the early stages.

Shaun summarised, "Essentially we have four companies operating, our HQ in the UK, sales in Boston USA and two manufacturing sites based in Zibo in Shangdong Province, China and Bangalore in India and we also have a number of suppliers in Kuala Lumpur so we hope we will eventually be located there."

It looks like a very busy time ahead for ATG as the growing global sourcing specialist.



Qualification by product range:

The current focus in the company are the product lines with the emphasis on castings and forgings, fabrications, precision components, composites and plastics. As 38% of the product lines are castings this heavily underlines the qualification of ATG as a company as these lend themselves to many guarantees with this range - castings, wear plates, shredder teeth, ground engaging teeth.

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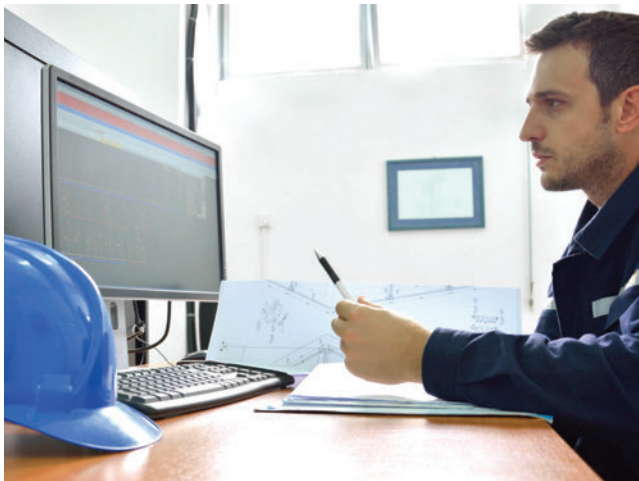
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How often do I need to provide refresher training?



With no specified refresher period set out by law for many items of mobile plant and lifting equipment, including but not limited to Fork Lift Trucks. Choosing the right interval for your business requires a sound understanding of your operational risks and how they influence your training schedules.

Even well-trained and experienced operators need routine monitoring, and, where necessary, retesting or refresher training to combat complacency and ensure they continue to operate equipment safely.



What the definitive guide says:

To find out more, we refer to the only equipment specific Approved Code of Practice L117, the HSE's 'definitive guide' to forklift operator training and safe use. It states:

"There is no specific time period after which you need to provide refresher training or formal assessment. However, you may decide that automatic refresher training or a retest after a set period (for example 3-5 years) is the best way to make sure your employees remain competent. Where you adopt this approach, you will still need to monitor performance in case operators need extra training before the set period ends."

As this is guidance and not law, some misinterpret refresher training (intentionally or unintentionally) as unnecessary. But, it absolutely is and neglecting this fact could come at a heavy cost to your operation's safety, compliance and productivity and whilst the L117 is specifically targeted at the use of fork lift trucks, this guidance should be replicated for other items of operational site equipment. Many of the accrediting bodies will detail an expiry date on their cards and certification, but what about those items of equipment that aren't governed by a set standard?

Why is refresher training important?

Regular refresher training nips bad habits (and the costly accidents that follow) in the bud and ensures operators:

- Maintain good operational habits
- Learn new skills
- Reassess their knowledge, understanding and attitude
- Ensure operators are aware of the latest best practice guidance

Don't just assume it is sufficient to simply implement a regular training interval to cover all eventualities. There are instances where refresher training or retesting might be required sooner, if operators:

- Have not used equipment for some time due to secondment or absence from work
- Only operate the equipment occasionally
- Appear to have developed unsafe working practices
- Have had an accident, or a near miss*
- Have a change to their working practices, environment or equipment

*Remember, in the instance that there has been an accident or a near miss, blanket refresher training is not the right approach. Understanding of accident or near miss causation is vital, this must be identified, and a prescriptive training plan put in place.



Determining your risk

To be truly effective, your refresher training policy should be based on a detailed assessment of your specific operation – including your processes and equipment, how and where it's used, by whom and the associated risks. You may have accredited certification that states an expiry date of 5 years but due to several considered factors you may find that refresher training for your business should be conducted sooner.

Refresher training is a key part of your overall training programme and your commitment to workforce competence.

For further information and support get in touch with the training advisors at Mentor.



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Now's the perfect time to repair and rebuild

MST has been at the forefront of the bespoke new buckets, repairs/refurbishment and undercarriage market for over 45 years. In that time it has seen huge changes in the worldwide quarrying and excavation market. With its years of heritage in the industry, current trading conditions are not unfamiliar.



During current conditions however, MST, which has its headquarters in the North East of England, says it is well placed to deal with the challenges and upcoming uncertainty. A marked increase in the level of customers enquiring about repairing and refurbishing worn out buckets is increasingly apparent, as opposed to replacing them with new ones. They believe there is no coincidence that refurbishments have become increasingly popular in recent times.

Even though MST designs and manufactures some of the largest new buckets and attachments being built in the UK today, MST also has a strong team of bucket repair welders and fabricators lead by bucket manager, Nick Fagandini, who was brought into MST almost thirteen years ago and has been at the forefront of the repairs department development.

He explains "Over 500 repairs go through the MST workshop each year, a number which is increasing year on year. "The MST repair department has gone from strength to strength and the great thing is, MST can repair just about anything; from loader and excavator buckets to grabs, pulverisers, rippers – big or small, new or old, all makes and models. you name it, we've probably repaired it!"

MST Director, Rory Whitehall, explains, "If you've ever had a bucket refurbished by MST, you'll know only the highest quality Swedish steel is used. We do this because we believe in quality, durability and happy customers who appreciate the time and effort we put in to each and every repair."



Rory went on to say, "With years of experience in the repairs department alone you can rest assured you're in safe hands. We listen, advise, consult and deliver solutions to the highest standards."

It's something MST is taking very seriously, making a reduction in tool downtime their priority for its

customers. They provide a full on-site inspection and servicing facility. It's worth noting, MST has the largest stock of loan buckets in the UK. This ensures downtime is at a minimum while we repair your bucket and get it back up and running! MST has also provide a 'weekend service' where necessary for customers in the UK, whereby they will collect the worn bucket on a Friday afternoon and have the fully refurbished bucket back on the machine first thing on a Monday morning.

For more information call 0191 410 5311 or visit www.mstpartsgroup.com/Bucketreconditioning

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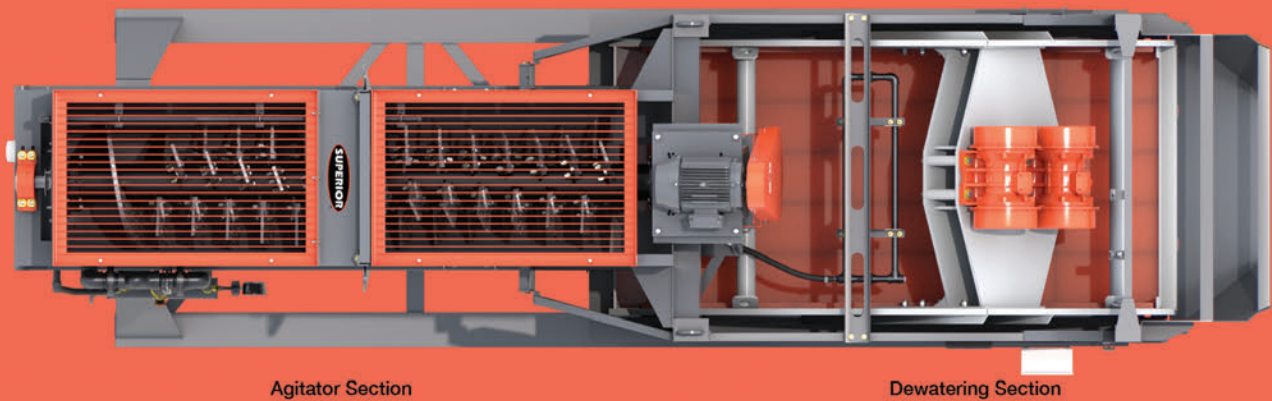
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Agitator Section

Dewatering Section

Superior Industries develops new low-water sand washing solution

A new, field-proven low-water sand washing system from U.S.-based Superior Industries offers a cost-effective, eco-friendly solution to efficient crusher fines management and higher-quality manufactured sand products. As a single-source supplier of aggregate processing equipment, Superior Industries has developed the new Alliance Low Water Washer, which allows the washing and classifying of fines right within the crushing circuit - and provides a cost-efficient alternative to high-water-use washing with cyclones or sand screws.

Cost-effective sand washing

"Versus conventional sand washing methods, the Alliance Low Water Washer is a unique, first-of-its-kind solution that's particularly advantageous to those who operate dry crushing facilities, or portable plants; or operations limited by a smaller footprint or available water resources," says John Bennington, a well-recognized washing and classifying expert who serves as the director of wet processing technologies for Superior Industries.

The new system combines a specially-designed agitator and a dewatering screen within one machine. Allowing operation on a small footprint, crusher dust is processed within the crushing circuit, eliminating the cost of handling and hauling the fines to a separate washing site. Importantly, he says that the system accepts a dry feed directly from the crushing circuit and processes the material into a higher-value manufactured sand, while requiring significantly less water consumption.

With an increasing demand for manufactured sand throughout Europe, Bennington says that many operations have typically turned to cyclone dewatering plants. "Consider that the water requirement for a 200-MTPH-capacity cyclone dewatering plant will run between 450 to 600 m³/hr. The cost of using that much water, along with stringent environmental regulations,

makes the use of a cyclone plant or sand screw increasingly prohibitive," he says.



Efficient fines management

Since washing crusher fines with a cyclone or sand screw typically requires the transfer of material from a crushing circuit to a separate washing circuit, some operations stockpile material to be washed. When necessary, material is hauled to the wash plant, with the multiple handling of material resulting in higher operating costs per tonne.

The Alliance Low Water Washer, says Bennington, provides efficient fines management. Its agitator section is positioned at the front end of the screen where water is added to the dry feed and mixed, producing a thick slurry. The

agitator is equipped with a spray bar along about half the length of the agitator shaft for thorough cleaning. The slurry is fed to a robust dewatering screen that is outfitted with a series of spray bars that help to push the -75 micron material down through the screen. "Using a sand screw requires lifting the silt over the weirs of the screw with high water usage. Alternatively, when the Alliance Low Water Washer pushes the material down through the screen, much less water is needed," he says.



Depleted natural sand reserves and environmental constraints are driving a fast-growing demand for high-quality manufactured sand and cost-efficient crusher fines management. "With the Alliance Low Water Washer, some operations have cut water usage by 80-percent, while eliminating additional material handling," says Bennington.

Sandvik Mining and Rock Technology hold a customer day at Marshalls Howley Park Quarry

Sandvik Mining and Rock Technology held a customer day with the assistance of Marshalls Natural Stone. The event was to allow influential people from aggregates companies to learn about and explore an entirely Sandvik designed and manufactured aggregates plant. The event was held at the Village Inn, Tingley, West Yorkshire and at Marshalls Howley Park Quarry where the cutting-edge solution has been installed.

It was organised by Mark Bodell, Stationary Crushing and Screening Sales Manager for England and Wales and supported by senior Sandvik personnel from across Europe.

Although Sandvik have sold installations like the one at Howley Park for over two decades around the world, this marks a significant step forward for the UK market, where in the past Sandvik were known for selling high quality, major components and ancillaries for fixed plant to now being able to offer a fully designed, manufactured and installed plant including electrical and civils if required.

The customer day was designed to highlight not only Sandvik's capabilities in design, manufacturing and installation but the partnership approach with customers to fulfil their requirements.

After introductions and a safety brief regarding the quarry visit, the event began with a short presentation on the three distinct approaches Sandvik can now offer their UK customer base for fixed plants from their Plant Solutions department. These are FastPlant™, SmartPlant™ and CustomPlant™ the latter being the approach taken for Marshalls, a fully bespoke and individual designed installation.



The group of 60 people split into two. One group left for the nearby Howley Park Quarry and the customers remaining were given the opportunity to view the plant in full virtual reality which had been set up for the event. As Sandvik use the latest 3D modelling as plant design this allows the customer to view the plant prior to manufacturing and check over details like access, how components can be maintained and how a loading shovel will work around stockpiles under conveyors. This 3D plan is also what is used on site to install the components by the mechanical engineers.

The visitors to Howley Park Quarry were treated to a unique, all access tour of the new plant. The installation was two weeks away from full commissioning so a unique time to view a completed plant just prior to any material being processed through it. Full access was given apart from the areas where some civils work was still being carried out at the stockpiles bases.

Full advantage of this unique view was taken by all the visitors and close inspection of manufacturing quality, maintenance access and design were on full display to all. The plant which consists of a CJ411 Primary Jaw crusher, a CH440 cone crusher, SS1233H and SK2163 screens, all hoppers, surge bins, conveyors, primary breaker, dust encapsulation and rubber screening media, control systems and ARSi crusher control technology was greatly admired by all the experienced people attending. Ian Conway, Consultant Engineer, over 40 years veteran of the industry and who has installed many plants all over the world was greatly impressed by the design and manufacturing. He said, "it is good to see such high quality, all galvanised structures and how apparently it all fitted together correctly with no on-site re-engineering required...something that is quite rare in this day and age!"

Colin Parke, Breedon Group's Central Region Director was pleased with the inbuilt safety design features. He said "the plant has been designed with safety and maintenance in mind

for the future. The double access conveyor walkways, high quality guarding and full access to maintenance points was of a very high standard".

Maintenance access was also spotted by Peter Rust, a senior engineer for Tarmac who was fascinated by the design and installation. Peter said, "this plant is designed and manufactured to a very high standard and has had ease, safety and speed of inspection and maintenance built in". His attention to detail also observed "every single nut and bolt on the plant is exactly the correct length. We all know this is as it should be but how often do we see this on new plant installations these days? I'm very impressed with the attention to detail".

The second group of customers arrived shortly after. At all times there were plenty of people from both Sandvik and Marshalls to answer any questions and Scott Robinson, Director of Robinsons of Longcliffe, the main mechanical installation contractor who was on hand to also discuss the project. Scott had commented "the 3D drawings, how every component, down to boxes of nuts and bolts, was QRf bar coded made the installation one of the most straight forward they had tackled in their long history".

The customers then also had the opportunity to discuss with Marshalls directors, operational management and engineers how they felt the project had gone. Andrew Robinson, Marshalls Minerals Division Managing Director, was keen to discuss the partnership approach and quick turn around by the departments within Sandvik. Having been given strict criteria of footprint and height restrictions from the Howley Park planning permit and the flexibility in seasonal and customer-based demand production requirements Mr Robinson said Sandvik were the only manufacturer who fulfilled the specification, which was almost perfect on first concept delivery. Other manufacturers either didn't listen or could only supply a standard solution that didn't comply. Marshalls operational and engineering management then worked closely with the Plant Solutions office in France and Applications office in Sweden to ensure the flexibility in production was achievable, to ensure all Marshalls health, safety and environmental standards were deployed and manufacturing and installation deadlines could be met.

The state of the art, turnkey plant was installed in around three months after foundations were laid. Marshalls have bucked the trend in the UK aggregates sector and have invested in a state of the art, fixed processing plant in a quarry with long reserves on a site that traditionally has had production carried out by mobile contractors. Mr Andy Robinson of Marshalls shared that the investment should pay back in three years and that they are looking at another Sandvik custom designed plant at other sites, including Scoutmoor Quarry near Bury,





Manchester. He said "we are investing on our long-term commitment to our customers by increasing productivity and flexibility. The site has a long future and we are proud to have invested in a plant that will see the next 25 years through comfortably".

Speaking about the project Mark Bodell from Sandvik said "When I became the stationary crushing and screening Sales Manager for England and Wales in July 2016, I was determined to bring the complete plant solutions concept that Sandvik had delivered to the rest of the world to the UK

market. I am very proud of the plant we have built here, and the partnership approached we have had with Marshalls from day one. We will now continue to work closely with Marshalls now to ensure the return of investment and longevity of the plant with a preventative maintenance plan and continue to optimise the plant to ensure maximum productivity and profitability going forward. I am looking forward to this being the first of many complete plants that Sandvik will supply to the UK aggregates market and already have had a phenomenal interest from the major British building materials suppliers for our turnkey plants".

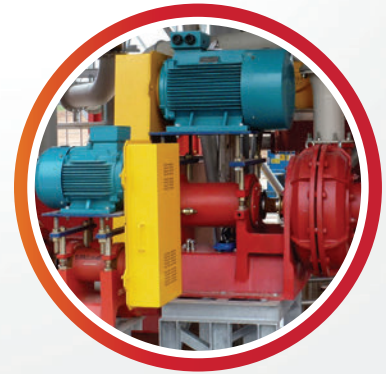
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Sandvik Mining and Rock Technology is part of the Sandvik Group

www.rocktechnology.sandvik



MCLANAHAN ULTRAWASH SYSTEMS



LAUNCHING AT BAUMA 2019

Stop By Booth FN1019\18

McLanahan UltraWASH Modular Washing Systems offer the same world-class washing technology we've been supplying since 1835, but in containerized modules for shorter lead times, quick setup and ease of transport if producing at multiple locations or one very large site. Produce up to five products – three clean aggregate and two washed sand products. Additional modules for crushing, screening scrubbing, thickening, and tailings management are also available.

bauma

 **McLanahan**

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McLanahan Modular Wash Plants

With a long history of designing, manufacturing and installing modular wash equipment, McLanahan's line of UltraWASH modular wash plants are the latest line from the company. Engineered to include all McLanahan equipment that helps producers meet their process requirements, the UltraWASH provides the reliability, simplicity and efficiency that producers need from a modular plant.

All equipment that is part of the UltraWASH plants, including the vibratory screen, hydrocyclones, dewatering screen, sump and pump, is based on the company's well-known, field-proven designs. UltraWASH plants provide a quick, easy-to-install processing system. These modular wash systems are ideal for producers facing criteria such as planning permits, multiple locations, short-term deployment, or an unknown/variable feed stock (e.g. C&D waste streams applications) that make implementing a customized, fixed processing solution difficult.

Currently available in six sizes and configurations, the UltraWASH can produce up to three aggregate products and up to two sand products. There is a single process water feed point, as well as a single effluent discharge point.

We currently offer several additional configurations and additions to the UltraWASH, including:

- Single or dual sand product
- Feed preparation (log washer, blade mill, coarse material screw)
- Attritioning module for specialty sand production
- Organics removal module
- Water treatment with high density or paste style thickener
- Filter press for complete wastewater treatment

Ease of maintenance

McLanahan knows the importance of uptime, so the UltraWASH is designed with ease of maintenance in mind. Our pump trolley service platform allows the pumps to slide out from underneath the chassis for greater access when performing maintenance activities, such as changing the impellers or replacing casing liners. A foot pedal for lifting the discharge pipe from the pump and a locking mechanism for then holding the pipe aloft offer the clearance needed for the

pumps to roll out on the trolley service platform unrestricted.

We also offer a retractable feed conveyor to allow easier access to the feedbox when it comes time for servicing. Rather than lifting personnel to the height of the feedbox to perform maintenance, we bring the feedbox to them. With the push of a button, the conveyor will retract and the feedbox will be brought closer to ground level, making it both easier



and safer for your personnel to maintain. An upgrade to a track-mounted feed conveyor is also possible thanks to our partnership with Anaconda equipment.

Another maintenance feature we've included in our UltraWASH Modular Wash Plants allows easier access to the aggregate hood. Simply remove the section of grating from the walkway behind the aggregate hood, slide the aggregate hood back and reattach the grating in front of it. This creates a platform for accessing inside the aggregate hood when needed.

Quick setup

Because our modules arrive in individualized containers, they are quick to set up and easy to move around for different configurations. This also makes them easy to transport to other sites. Assembling each module is simple and takes less than a day to get the whole plant up and running.

While there are a number of modular plant solutions available in the market, McLanahan is one of the only companies offering both custom and modular washing solutions. This, combined with years of processing design knowledge, provides unmatched industry expertise in providing the correct solution for your application.

McLanahan Corporation was founded in 1835 in Hollidaysburg, Pa., USA. Today, the company is in its fifth and sixth generations of family ownership with offices that provide local service and support in Asia, Australia, CIS,

Conveyor transport plays such a central role in production

Interview with Metso Trellex specialist Alain Trouillet...

With the rapid throughput of systems both upstream and downstream that depend on conveyors, it's important to choose the right solution. Conveyor transport plays such a central role in production. If it fails, the whole system fails.

Metso conveyor solutions consist of accessories, the belts themselves, and other components. Metso is a world leader in design and manufacturing in all three categories.

13 Metso Trellex® solutions specially designed for conveyors.

A conveyor can't perfectly fulfill its functions without a good conveyor belt preservation. In order to prevent the belt from being damaged when materials are dropped into the loading point, Trellex® has invented an innovative impact bar device (in blue on the picture) designed to dampen the material falling on the belt. "These bars are made of a high-density polyethylene which is vulcanized on a soft rubber base," says Alain Trouillet, from the sales support department for screening media and linings at METSO. Two thicknesses are proposed according to the rock size distribution: 50 or 75 mm. To ensure the performance of the system, rotating rollers are placed just before the impact area, to trough the belt, thus giving it the right angle before to meet the impact bars.

Sealing



"Traditionally, loading zones of conveyors are damping stations consisting in successive rollers mounted in parallel which receive the feed. However, it causes belt sagging at each interstice between the rolls. The use of impact bars permits to maintain the belt flat and therefore the sealing remains linear", explains Alain Trouillet. Called "Snap-on", the Trellex® sealing system shown at the SIM congress maintains dust inside the conveyor. Black rubber plates vulcanized on a steel base are installed on both sides of the hopper. That plates permit both to guide the rock materials to the middle of the conveyor belt and to avoid contact with seals. "A good sealing system helps to reduce the maintenance need. In addition, because these systems are not rotatable, NIP points guards are not required", he adds.

Lagging

At the top of the conveyor shown at the event, three different types of pulley lagging were presented. Composed of several individual rubber elements, a combination of rubber elements



and ceramic inserts, or all soft rubber, each type of lagging has been designed for a specific application.

For instance, the combination with ceramic inserts is mainly used when the belt is highly stressed (large pulley diameter) and when a significant powerdraw is necessary to tow the belt. It's also very resistant to abrasion and thus slows down the lagging wear over time. In cold or dusty environments,

the free-area lagging is the most suitable as it permits self-cleaning at the first rotation of the pulley. "It is essential to get a good adhesion of the pulley on the belt to drive the conveyor", explains Alain Trouillet. "Our diamond pattern lagging (glued laminated rubber) fulfills that mission and also avoids the contact of the steel with the belt, which would cause slipping".

Cleaning

Several cleaning solutions of the conveyor belt exist to preserve the conveyor and to systematically make it efficient. Installed in line with the head pulley, the pre-cleaner immediately cleans the belt after the rock material is spilled. It's a big advantage because fines and coarse material are both eliminated.

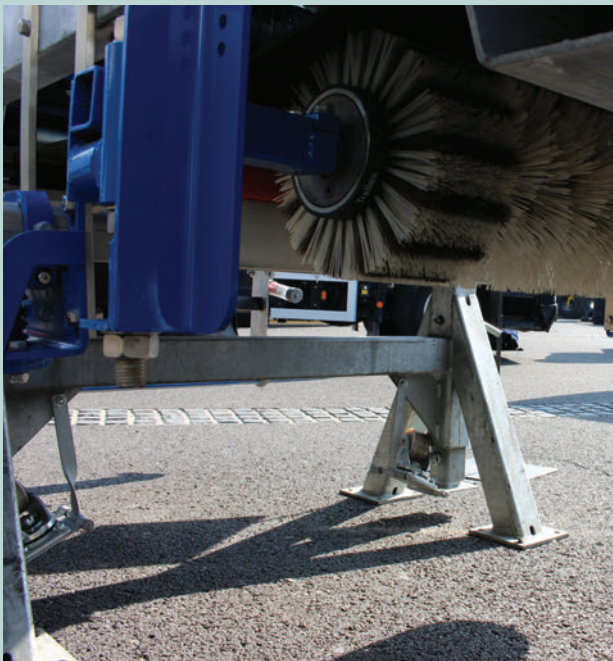


Three versions of scraper blades are offered by METSO according to customer needs. Mostly used in quarries, the "ABC 70" bi-color blades (blue and yellow) are built up by two polyurethane materials. "We have blades for conveyor

belts with standard dimensions for quarry application up to 1200 mm, and pulley diameters up to 800 mm.", he says. But the main advantage of Trellex® belt scrapers is the ease of installation and maintenance. Indeed, the blades are slid on a rail and thus can be easily changed when it's worn.



Otherwise, the secondary cleaners, located underneath the conveyor belt, benefit from the same advantage for blade replacement. Much more efficient but also more sensitive to belt quality or patching, blades consist of steel or tungsten carbide tips on a polyurethane or rubber mount.



Another Trellex® solution is the motorized belt brush, made of nylon or a combination of nylon and steel, depending on the type of material to be cleaned. It's a brush motorized with an operating voltage selected between 12 V and 380 V, which rotates against the belt rotation direction. It is suitable for removing very fine materials, sticky or wet, which are commonly impossible to clean using traditional scrapers (pre-cleaners). Besides it is the only efficient cleaning solution for clogged conveyor belts.



Automatic centering of the belt

Lastly, another major problem facing conveyors is the belt mis-tracking. "When materials fall into the feeding zone, it creates transverse forces on the belt, which can move laterally or shift from its drive pulley", says Alain Trouillet. Thus, the consequences can sometimes be very dramatic, tearing or even cutting the belt.

To make sure the belt always stays in its axis, Trellex® has developed an automatic centering device. "Our system is mounted on the return run of the belt (underside) and constantly align the belt. It's combined with a centralized lubrication. To facilitate the maintenance of rotative components, without using a nacelle for instance, we have deported the greasing points to a manifold placed in an easily accessible corner of the conveyor."



The original article was published in French by Construction Cayola

<https://www.constructioncayola.com/terrassements-carrieres/article/2018/10/24/121312/13-solutions-trellex-presentees-sur-convoyeur-metso-sim>

High capacity: The MC 120 Zi PRO is a master of granite processing

A job for the first jaw crusher in the new PRO line from KLEEMANN: the MOBICAT MC 120 Zi PRO has an impressively strong crusher and, when combined with the largest, independent prescreen in its class, it achieves high capacities, as demonstrated recently in a quarry in Norway. The Stangeland company processes granite at the Veidekke Hyllestad quarry, located on the peninsula on the Sognefjord, near Leirvik. Veidekke produce asphalt at this location, which is loaded directly onto ships and transported to various processing sites.

Fines are kept out of the crushing process

In Sognefjord, an excavator transfers the blasted granite to the feed unit of the MC 120 Zi PRO. Because the feed material contains a high percentage of fines, the double-deck pre-screen is of critical importance: it prevents the fine material

from getting into the crusher unit, helping to increase productivity and efficiency. Thanks to the plant's high feed rate, the crusher unit operates at full capacity under all conditions and extremely efficiently with its diesel-electric drive. Should material ever become jammed, the reversible crusher drive springs into action. With this optional unit, the system can be run in both the normal forward direction and in reverse when the crusher is full. After the MOBICAT MC 120 Zi PRO does its job, the pre-crushed material is conveyed to a multi-stage stationary plant that crushes it to the required grain sizes.



Ready for the Norwegian winter: Stangeland's MOBICAT PRO plant is configured with a cold package that enables operation at temperatures down to -25 °C. KLEEMANN also offer a heat package for work at temperatures up to +50 °C.



The new PRO line of jaw crushers from KLEEMANN: the MOBICAT MC 120 Z PRO pre-crushes virtually all types of natural stone.



50 t/h is the maximum feed capacity of the MC 120 Z PRO jaw crusher.

Compact crusher with tremendous power development

Stangeland have been operating the plant for several months now and are extremely pleased with its high output. For years, they had been using a rival machine that was equipped with a crusher unit of identical size, and therefore did not expect any significant difference in overall performance. But it quickly became apparent

in day-to-day operation: "Even with the biggest boulders, the crushing unit on the MC 120 Zi PRO barely loses speed or power at all. The material just flows right through. Our old plant would have long since ground to a halt. That's why the MOBICAT PRO was an instant hit with me," says Arve Kenneth, Stangeland Machine Operator.

Job site details:

Rock processing at a quarry on the peninsula on Sognefjord, Norway

- Material: Granite
- Feed size: 0-700mm
- End product: 0-150mm
- Crushing capacity: 335t/h
- Closed side setting (CCS): 100mm

Terex Finlay Screens are flawless gems for Steyn Diamante

You may be forgiven if you haven't heard of the Schutsekama Diamond Mine on the Riet River near the village of Ritchie, which lies south of Kimberley. It is not a mine where the skyline is dominated by a shaft tower. Here in fact, the only raised portion shows four large red mobile Finlay Screens processing a constant stream of rock, gravel and sand that is separated onto different moving belts which spew the material into heaps.

Archaeological data shows that the narrow Riet River ran a lot wider some centuries ago. Alluvial diamonds from as far as the present day Jagersfontein and Koffiefontein were pushed into the surrounding areas as the river flooded the plain en route to joining the Vaal River further downstream.

This is where Schalk Steyn of Steyn Diamante, doyen of alluvial diamond mining in South Africa, established one of his mining operations in 2015. The Schutsekama Mine Manager is Wikus de Winnaar and we asked him what makes their mining methods work in that area.

"Compared to traditional alluvial mining methods, we've gone considerably bigger on this site using a 240-tonne excavator

for loading 100-tonne rigid dump trucks. They, in turn, deposit the diamond-bearing gravel onto stockpiles from where huge 50t excavators feed the material into Finlay 893 Screens for separation," he explains. "Anything larger than 125mm is returned to the mining pit to form the basis of rehabilitation and finer material than that is sent to the processing plant."

"During April 2018, we fed 159 957 tonnes of run-of-mine material through three Finlay 893 Screens or which proves that we couldn't mine so sustainably and on such a large scale if it weren't for our fleet of Finlay 893 Screens. We have four in a row here but use only three actively, keeping the fourth in reserve for when any of the others need maintenance. Regular rotation also takes place so that the load is spread amongst the four machines."

The Schutsekama mine works daytime shifts from Monday to Saturday with month-end long weekends. Machine hours are clocked relentlessly, especially on the Finlay 893 Screens. At the time of writing, the newest machine showed 340 hours and the oldest 5 477 hours.





Bell Equipment Sales Representative, Eric van der Merwe (left), chats to Wikus de Winnaar, Mine Manager at the Schutsekama Diamond Mine.



The Finlay 893 Screens are placed as close to the mining areas as possible to shorten the haul distance. This works as the rigid trucks run full in both directions, bringing mined material to the stockpiles beside the Finlay Screens and returning with oversized material for roll-over rehabilitation.

"Because of the area where we mine, we come across a lot of wet clay, sand and shale in the diamond-bearing gravels, but we can throw anything at these Finlays and they separate what we don't want from that which goes to the plant – they are simply amazing."

According to Wikus, the present four Finlay 893 Screens were bought relatively recently as replacements for four older machines which were sold out of hand. It's a well-known fact in the alluvial mining industry that Finlay Screens from Steyn Diamante have been well maintained and they are therefore sought after on the pre-owned market.

Fuel is a major cost factor to any miner and this site consumes 8 500 litres of diesel a day. The Finlay 893 Screens have been recording fuel burn of around 20 litres an hour and, considering what they produce, this is considered low.

"Schalk first used Finlay 883 Screens back in 2004 when he started mining alluvial diamonds in South Africa," Wikus continues. "He knows the machines' capabilities and while going on to the larger 893 machines has stayed with Finlay as he has absolute faith in the brand."

"What we appreciate, as the mining teams and those working with the Finlay Screens daily, is that we have the backing of Bell Equipment in terms of technical support and parts supply. We get great service from Shaun Malan and his whole team at the Bell Customer Service Centre in Kimberley and even if parts are not in stock, a plan is always made to supply us quickly," he adds. "Mining equipment will need attention and can surprise you at any time but knowing Bell Equipment is close by, allows us to do what we do best – mine diamonds and rehabilitate the land afterwards."





Sandvik Mobile Crushers and Screens roll out the latest upgrade in their “2 Series” product offering with the launch of the new QS332 cone crusher...

Continuing their ongoing product development Sandvik is proud to announce the launch of the new QS332 gyratory cone crusher. This latest addition has been upgraded to encompass the many product refinements of the recently launched QH332 Hydrocone, in order to improve operation, efficiency and ease of maintenance.

Sandvik launch next generation “2 Series” gyratory cone

The compact QS332 is targeted at the most demanding of aggregate producers. Featuring the renowned Sandvik CS430 gyratory cone crusher, it is able to accept a feed size up to 90% larger than current standard cones. This produces benefits for customers by delivering improved productivity on such applications as Type 1, crusher run or in primary gravel crushing.



Crushing and screening in one unit

One of the unique benefits of this new model is its ability to be adapted quickly for operation in open or closed circuit configurations. This is achieved using its new optional modular Double Deck Hanging Screen system (DDHS), a self-contained finishing screen module that can be added or removed from the plant in less than 30 minutes without the need for any lifting equipment on site.

The double deck hanging screen enables the plant to produce two screened products and recirculate the oversize back into the feed conveyor for reprocessing.

A further unique feature of the Sandvik QS332 & DDHS is that it features a patent pending adjustment system that allows the screen to be quickly reconfigured to product one single sized finished product, or two sized finished products, depending upon the customer's demands at that time.

The oversize conveyor may be hydraulically rotated for material stockpiling (90°) of up to three products on the ground, or removal (180°). The tail section can be raised hydraulically to give improved ground clearance for transport when loading or unloading.

Class leading CS430 Cone crusher

The Sandvik CS430 cone crusher is at the heart of this world leading piece of technology. It is equipped with a hydroset system which provides CSS adjustment at the touch of a button. The automatic setting regulation system not only optimizes production, it also keeps track of liner wear, making it easy to plan liner changes and minimize interruptions in production. The CS430 cone has a choice of three concaves and four eccentric throw options ranging from 16 mm to 30 mm all contained within one eccentric bush, providing unrivalled flexibility regarding CSS ranges, production and material gradation.

World leading features

Amongst the features of the QS332 are durability through the chassis being constructed from heavy duty 'I' beam, as well as its heavy duty, hydraulically-positioned feed conveyor with optional wear resistant liners and hydraulic folding hopper extensions. An 'up and over' metal detector provides the ultimate in cone protection from tramp material.

My Fleet telematics

The QS332 comes with My Fleet remote monitoring system as standard. My Fleet has been developed to help our customers know exactly how equipment is being utilized. Through the collection and accurate monitoring of a wide array of parameters, this facilitates accurate production forecasting, ensuring that the most efficient use is obtained from equipment, thereby maximizing return on investment.



Key features include:

- Optional hanging screen available for recirculation or stockpiling to produce two products. This is completely detachable without the need of additional lifting equipment.
- One of the most versatile units on the market with a choice of three different crushing chambers and a variety of eccentric bush settings.
- MY FLEET Remote Monitoring fitted as standard for live remote monitoring of plant, hours, location, etc. to optimize machine operation.
- Automatic level sensor above the crushing chamber to control the feed rate and minimize operator intervention for maximum production and reduction.
- Remote camera for visibility of the crushing chamber from ground level.
- Hydroset CSS regulation system to optimize production and keep track of liner wear.
- Revised "New Look" chassis design for durability.
- CAT C9 or C9.3 diesel emissions compliant engine with direct drive heavy duty wet clutch for maximum power delivery and fuel efficiency.



CMB International supply new bespoke screen for Tarmac Marfield

CMB International has recently completed a screen replacement for Tarmac at their Marfield Quarry in North Yorkshire.

Situated near the village of Masham, Marfield Quarry has been in operation for over 50 years and owned by several companies with Tarmac the current operator.



Material in the area consists of mudstone, siltstone and sandstone with approximately 5.5 million tonnes of sand and gravel reserves at the site.

The current processing plant was originally moved from the site adjacent to the current quarry, which is now a nature reserve, in the eighties. The screen was installed brand new at this time.

After a long life, issues occurred which required welding repairs and a decision was made to replace the screen, with

CMB being given the task of providing a replacement. This decision proved fruitful as the screen suffered total failure a week after the order was placed!

CMB subsequently supplied a bespoke 1.8m x 6m long, double-deck screen designed to fit within the existing envelope and pick up on original feed and discharge points which eliminated any further work.

The task of removing the old screen and the installation of the new screen complete with new rubber covered underpans was completed in four days by CMB's sub contractors, S.P Services.

Andy Coe – QM, commented, "We were very pleased with the work ethic, documentation and good working practices of the installation team, everything went very smoothly."

The sand and gravel plant at Marfield processes approximately 350,000 tonnes/annum with the plant operating in the region of 250tph with material across the screen at 150tph. The primary crusher feeds aggregate into the plant with the crushed aggregate fed by conveyor onto the new screen with any oversize fed back to the secondary crusher where it is crushed to -40mm.

The new screen has been fitted with Scandura modular PU media (600x300mm) unlike the original tension mats on the old screen.



Andy, commented, "I wasn't sure about changing to modules after working with tension mats on my grading screens over the years, but they are working efficiently, and we do have them elsewhere on the plant. Its also easier as previous damage meant a complete mat replacement whereas with modules its just one module so more efficient and cost effective."

Production was immediately back on track after the installation with the plant supplying a range of 40-6mm aggregates and a course sand to internal concrete and bagging plants within a 50-mile radius

Andy Coe – QM who also manages the nearby Nosterfield sand and gravel quarry commented, "It's been an efficient exercise and I am very pleased with the screen, its running like a dream and all credit to CMB."

Industrial Screening Systems

A subsidiary of ISENMANN Siebe GmbH, one of the world's leading manufacturers of screen media and ancillary products, TEMA Isenmann Ltd are a UK market leader in the design, distribution and supply of industrial screening systems to the aggregates, mining and steel industries.

Located in Woodford Halse, Northamptonshire, the company has a long track record in identifying and delivering effective screening solutions (e.g. polyurethane modular panels, wear liners, rubber screens etc.) to existing problems; with a strong focus on giving UK and overseas customers best value for money through optimized productivity, efficiency and accuracy.

Screening Innovation

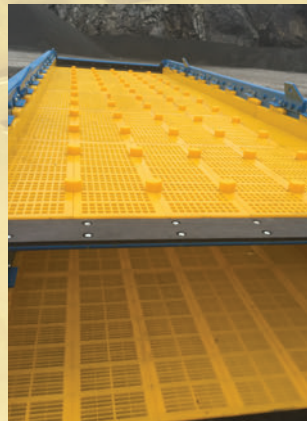
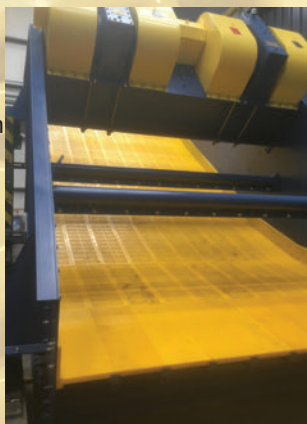
Developed over 30 years ago, TEMA Isenmann's industry-proven Isepren WS85 modular screening system continues to be one of the company's flagship products. The screen modules manufactured from the highest-quality polyurethanes available subjected to stringent quality control measures, come in a range of different shore hardness's and designs to meet a wide array of screening applications in the mineral extraction and recycling industries.

A key challenge for quarry/mining operators is to be able to deliver the lowest cost-per-tonne production in the safest possible way and TEMA Isenmann's ongoing investment programme demonstrates the strong commitment to supporting customers, developing new products and driving technological innovation.



The latest evolution of the patented WS2.10 magnetic polyurethane modular screening media system is now being successfully used in dewatering applications alongside traditional classification and sizing duties and is compatible with original WS85 installations.

The WS2.10 system is suitable for vibrating and static screens, trommel screens, sieve bends, cross member/tube protectors and general wear protection lining. Thanks to its ease of installation and long wear life, the WS2.10 system reduces plant maintenance and labour costs, but more importantly eliminates any potential safety hazards associated with conventional fixing arrangements.



With quarry companies fully committed to the health and well-being of their employees, safety has been, and continues to be, an important priority when it comes to designing and developing new products and updating the existing equipment portfolio.

Working very closely with aggregate producers and equipment manufacturers, what makes TEMA Isenmann different in the

market place is the great success working in partnership with our customers to help them optimize equipment uptime, increase operational efficiencies and improve overall health and safety performance.

The vast array of media available from TEMA Isenmann (including woven wire, self-cleaning harp sieves, rubber and polyurethane) can be retrofitted to screening machines at any time, but if a plant is designed with a modular system from its inception, overall equipment costs are reduced while improving return on investment for the end-user. It is against this backdrop that we work closely with our OEM customers to develop new products that ensure aggregate plants operate at maximum efficiency, this in turn drives innovation, keeping TEMA Isenmann at the forefront of screening media technology.



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ATG works and partners with many manufacturers of commodities in China, India and South East Asia to source parts for OEMs around the world in the quarrying, mining, construction and material processing industries. We manufacture:

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Quickspray - A great addition to our existing built-in dust suppression system

Located in the heart of Leicester, AR Demolition have established the AR Aggregates Urban Quarry. This location is an aggregate recycling plant which produces recycled material out of the waste product from AR Demolition jobs as well as other companies who require the need to dispose of waste aggregate from site.



Surrounded by an industrial estate, railway and nearby housing (within 200m) it is important for the Urban Quarry to manage and minimise their airborne dust output effectively, particularly in the summer months.

The Urban Quarry is fitted with a built-in dust suppression system but in order to achieve greater water coverage and less airborne dust, a secondary application was required.



The Ace Plant Quick Spray was lent to AR Aggregates as a demonstration unit and was quickly put to use. The buckets of their loading shovels can be disconnected, and fork tines can be connected instead. The built-in fork sleeves of the Quick Spray unit enabled the attachment to be utilised with AR Aggregate's existing fleet of machinery.

Powered by third service hydraulics, the Quickspray is fitted with a hydraulically driven carbon fibre spinning disc which atomises water into a fine mist – trapping airborne and surface dust.

Darren Thompson, manager of the AR Aggregates - Urban Quarry stated that the Quick Spray, "Can be lifted to height easily to atomise water over stockpiles and machinery." Easy to pick up, connect up and quick to get water down and a good addition to our built-in system."



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ODS Environmental Group offer a solution to dust inhalation

ODS Environmental group are now able to supply our existing and new customers a solution to dust inhalation while using plant and machinery.

Working with our Dutch partners we are offering positive pressurisation systems that can be fitted to an existing machine or to new machines.

The system controls a positive pressure in the cab thus stopping dust or voc from entering the cab and the operator breathing them in. We have a CE compliant system built to the highest standards demanded by the EU and the United Kingdom.

HSE statement quarries

<http://www.hse.gov.uk/quarries/hardtarget/dust.htm>

ODS will come to site anywhere in the UK to fit and advise the best system for each piece off plant.

Freshfilter produces cab air quality systems for mobile machinery such as haul trucks, shovels, diggers and static operator enclosures. Using HEPA and activated carbon filter elements, our products protect operators in the most hazardous environments.



Your benefits with Freshfilter products:

- Healthy breathing air in mining, asbestos removal, waste sorting and forestry industries
- Patented filter systems that extend filter life time by over 5 times!
- Stainless steel maintenance free housings
- State-of-the-art control unit with remote monitoring functions
- Experienced installers/dealerships globally

Freshfilter supplies cab air quality systems to provide a healthy breathing air to operator stations on earthmoving machinery, used in contaminated areas such as mining, agriculture, forestry, demolition and waste handling industries.

To prevent ambient air from entering the operator's cabin, a slight positive pressure difference (1 millibar / 100 pascal) is to ensure that there is always an outflowing airstream from the cabin. The necessary inflowing air for achieving this pressure difference, is always delivered into the cabin through the filtration device. To minimize the amount of inflowing air,



the cabin is sealed to approximate air tightness, and a control unit is placed in the cabin to safeguard the pressure.

Freshfilter supplies gas filters, particle filters and dust filters that conform to EN1822, EN779 and EN12941. No respiratory devices have to be used anymore, when filter elements are combined according to the pollution.

In the Netherlands, air filtration devices have been obligatory when working in an aromatic, dusty or toxic environment since 1995; for instance, when moving earth of a former gas station or of a former waste belt. Dutch regulations are devised both to protect employers from liability law suits as well as to protect the health of employees when working in harsh conditions.

Although air filtration may seem a luxury item in an aromatic environment of a chicken farm, it is a bare necessity when working with asbestos or in dust or toxic fumes. Moreover, strict European legislation for the air quality is likely to find its way into global legislation. Recently for example Canadian laws already require cab air quality systems when working with silica dust. Also, in agriculture the demand for air quality improvement is increasing rapidly with the introduction of the class 4 (Europe) or ECPAD/ECPAR/ASABE (US only) standard.

Freshfilter can help your company ensure a safe work environment for your employees. With our patented products we will improve effectiveness, continuity, health and safety but also decrease operator costs resulting from illness. You and your operators can always rely on the Freshfilter cab air filtration units to provide clean and healthy air during work.

Sectors we serve:

- Mining
- Demolition & Asbestos removal
- Agriculture & Forestry
- Bulk stevedoring
- Waste management & Recycling
- Governmental & military
- Manufacturer & OEM level

ODS Group can also offer fire protection for your plant and machinery working with our partners Firetrace.

ODS Group are specialists in dust control utilising our knowledge to supply fog cannons, spray systems and many more types of suppression system.

Call us on 01560 480822 or visit our expanding website <https://odourdust.com/>



**Master
Magnets
Limited**

A Bunting Magnetics Company

www.mastermagnets.com

Master Magnets go from strength to strength in magnetic separation technology

The HUB-4 team recently visited Master Magnets in Redditch, Worcestershire to gain an insight into the Master Magnets Brand and its extensive success over the last 40 years. The midlands based Magnetic Separator and Metal Detector manufacturer has developed a reputation as one of the leading technology companies in the recycling, mining and mineral processing industrial sectors and was recently acquired by Bunting Magnetics, one of the world's leading suppliers of Magnet related technology.

Master Magnets was founded in 1978 by Geoff Worley and after growing steadily throughout the 1980s despite the economic challenges, the company was perfectly positioned for the increased demand of magnetic separation technologies in the early 1990s.



Jonathan Millington, Marketing Manager for Master Magnets

At the time, there were high levels of investment in the UK coal industry and globally located mineral processing projects. Using his considered knowledge, Geoff and his team of engineers developed a range of magnetic separators specifically for those key industries. For the coal and mining industries, they developed large Electromagnets which would be suspended over conveyors to remove large tramp metal such as pit props and bars. The drive in Mineral Processing was for the recovery of higher purity non-metallic minerals. The Induced Roll Magnetic Separator (IMR) and Disc Separator models were designed to accommodate a wide array of applications in this sector and a laboratory where clients could test materials was also established.

The Master Magnets brand became globally recognisable as export sales increased. In 2003, Master Magnets relocated to Redditch to expand their manufacturing capacity. As Master Magnets continued to evolve and expand, Worley took partial retirement and handed the reigns of the business to Adrian Coleman. Coleman had started his career at Master Magnets in 1984 as an apprentice and witnessed the evolution of the company.



Adrian Coleman of Master Magnets with Simon Ayling, Bunting Magnetics Europe's Managing Director at RWM 2018

"Master Magnets gave me the opportunity to develop my engineering career," explained Coleman. "In 1988, they supported me through a four year Mechanical Engineering course at Birmingham University. This gave me the necessary engineering skills to join the design office. As the company grew, I took up the position of Production Manager, before becoming Managing Director in 2008."

In 2017, Worley agreed to sell the Master Magnets business

to Bunting Magnetics. He foresaw the investment needed to maintain Master Magnets' reputation as a global leader and identified Bunting Magnetics as the ideal partner.

"Master Magnets has developed a long-standing strong identity and reputation as a leader in metal separation technology," said Simon Ayling, Bunting Magnetics Europe's Managing Director. "The acquisition means that we can invest in their manufacturing facility in Birmingham and in the development of new separation technology. When Geoff Worley founded the company, his aim was to produce well-engineered equipment to solve metal contamination and separation problems. That challenge has been passed onto us and we are excited by the future."

The Future

We talked with Jonathan Millington, Marketing Manager for Master Magnets about the future of the group "The acquisition by Bunting of Master Magnets has allowed us to



invest heavily in growth and has given the overall group a huge advance in the areas we are extremely strong in such as eddy currents, over-bands, electro-magnets and high intensity mineral separation equipment. This combined strength will allow us to move into many more markets globally and has already seen our best performance to date as a group, greatly surpassing our 2018 targets.

Jonathan gave us a tour of the manufacturing area "With both our production facilities at capacity our order books are full for several months and the investment from Bunting will now allow for expansion onsite here at Redditch to substantially increase our manufacturing capacity to meet future demand. This will begin during 2019 and will see this site grow by around 30%.

"We have a complete testing lab where we can test all kinds of client material that they may send us. We separate their test material into different grades to show the different levels of separation and what can be achieved. These final grades are sent back to the client with a full report and recommendations. This service is free and we welcome test material from potential new clients. We also have a dedicated metal detection 'clean area' which is contaminate free and allows us to thoroughly test our metal detectors before dispatch.

A recent new client acquisition for us involved us doing some in-depth test work for them on a stainless steel and an eddy current separator which allowed them to test the machines over a longer period and they were so impressed with the results, that they have now bought a 500mm wide 'R' Type Eddy Current Separator from us, with the deal being signed at RWM 2018. This testing process is something that we are happy to offer to potential new clients.

"In terms of exhibitions and our drive into new markets we will be exhibiting at bauma 2019 for the first time as a group and will have a brand new Eddy Current Separator to launch on the stand. This will allow us to talk to potential new clients throughout Europe expanding our reach. Minerals separation is also going to be a growth market for us within Europe, Africa and Asia in 2019."

With all products manufactured in the UK the combined group employs over 70 employees and has two large manufacturing bases in the UK, one in Redditch and one in Berkhamsted, Hertfordshire. For more information on Master Magnets please visit www.mastermagnets.com or call +44 (0) 1527 65858.



Strong magnets for improved recovery and separation of stainless steels in material recovery processes.

The STEINERT MSB HG rotary magnetic belt separator is a versatile enhancement of the well-proven STEINERT MSB for recovering stainless steel content from bulky materials within recycling processes...

High-grade stainless steel of various grain sizes and content can be found in many material recovery and shredder processes. Deploying strong magnets at the right places in the system allows greater yields of stainless steel to be recovered. Strong magnets also protect downstream shredding machines in e.g. plastic recycling and aluminium recycling from increased wear caused by the separation of stainless-steel content.

The STEINERT MSB HG (high gradient) enhancement comprises very strong ring magnets, which recover high yields of stainless steel. A high dense magnet pack in a compact radial pole arrangement ensures an optimum combination of magnetic flux and magnetic force coupled with a high depth of field. Depending on the application and sortable material, appropriate machine configuration options ensure the best possible result.

Typical applications include recovering and separating stainless steel from:

- Shredder residue (SHF/ASR and SLF) after the eddy current separator
- Heavy fractions of wet dense media separation (DMS)
- Pre-shredded aluminium and light metal scrap before downstream shredding (machine protection)
- Ash from waste incineration downstream, drop of eddy current separator
- Shredded plastic flakes, milled materials and granulates



Clearaway makes a smart choice

Basildon based, skip hire and waste management specialists has invested in a Sennebogen 821E supplied by Molson Green as they develop their new waste processing and transfer yard.

A family run business, for over 20 years Clearaway Recycling Ltd has maintained innovation at their core. Outgrowing their old premises, a recent move to a larger yard has meant a surge in investment in the material handling equipment on site. The latest of several recent additions to the fleet has been a Sennebogen 821E material handler fitted with a 650l capacity selector grab that will pre-sort waste prior to loading their static plant and loading containers of sorted and processed material.



Clearaway are a well-established Skip Hire and Waste Management company servicing businesses and the public in the Basildon, Southend and Romford areas. With 40 articulated vehicles on the road including 10 skip wagons and several roll-on/roll-off wagons, they are well positioned to offer customers in the area the reliable and punctual service customers have come to expect.

While the business prides itself on extracting the maximum amount of recyclable material from its waste as possible, customers can rest assured that none of their waste is going to be buried at landfill. 100% of non-recyclable items go into an energy from waste facility that generates electricity from the remaining processed waste.



Investing in reliable workhorses:

The Sennebogen 821E works alongside other recent investments in their fleet, supplied by Molson. These include a Hyundai HL760 waste handler loading shovel, a Hyundai R145LCR-9A compact radius excavator and a Keestrack K3, 3-way screener.

The Sennebogen 821E truly is the heartbeat of their operation. With a continuous stream of skip wagons and roll-on/roll-off lorries through the gates, it effortlessly pre-sorts freshly tipped loads removing any large and bulky items including easily separated bits of timber, metal or carpet before their Hyundai HL760 WH consolidates the material into a tidy pile. Seamlessly, the Sennebogen 821E is straight back into action loading their static plant where the material is processed through a trommel screen and a picking station for full separation of recyclable items.

The Sennebogen 821E clearly demonstrates it is the perfect machine for Clearaway's application not only by the tasks it needs to complete, but also the working range it is required to cover. With a reach of 11m to the dipper pin when fitted with the K11 ULM boom configuration and an operating weight of 23,950Kg, it has the reach and balance to perform any task this demanding environment can throw at it.

Operator comfort:

The unrivaled operator comfort offered by the Sennebogen MaxCab system will keep the operator happy and productive throughout the course of a full shift, thanks to its air-suspension seat with built-in heater, sliding door, ample leg room and best of all the fingertip control allowing the operator to drive the machine from the joysticks.

Consequently, this makes the steering wheel a thing of the past, allowing full visibility from the hinged front window making picking and sorting tasks more efficient thanks to the operator's uninterrupted view.





Paul Whitehare, Clearaway Ltd Owner said; "We have been delighted with the Sennebogen 821E. It is doing everything we thought it would and it hasn't missed a beat. The operators love the cab and they have also been very keen on the fact they can adjust the speeds on the attachment to suit their operating style. As we all know, a happy operator is a productive operator.

The other machines that Molson have supplied have also been spot on. For me the ability to deal with Adam for all this kit was a key part of my decision on what to buy. To know I have only got one call to make for any problem, on any of this kit makes my life a lot easier".

Adam Meeking, Molson Green Sales Manager said; "Paul and the team are fantastic to deal with. They hold many of the same family run business values that we believe in at Molson. By being true to their word and always trying to work together we have built a strong relationship that I believe will continue to grow and grow as both businesses move forward together."

Largest recycling plant in the UK opens its doors

New state-of-the-art facility in Scotland's central belt is now fully operational...

Brewster Bros, a family-run business in Livingston, has officially launched the largest recycling plant in the UK. The plant, featuring a CDE state-of-the-art wet processing system, will provide waste management services and recycled aggregates to builders, construction companies, ground workers, civil contractors and utility contractors from its new high-tech facility in Scotland's central belt.

The recycling centre includes over £2m of investment into high efficiency CDE equipment, with a capacity to recycle 400,000 tonnes of construction, demolition and excavation waste per year. In line with the Scottish Government's Circular Economy Strategy 'Making Things Last', the plant can process and recycle soils and rubble collected by Brewster Bros' fleet of tipper lorries from construction sites into high value sand and gravel - reducing waste disposal costs for Brewster Bros' customers while maximising waste recovery. The waste collected is not subject to landfill tax and the recycled aggregates produced are not subject to the aggregates levy which enables the business to keep its prices competitive.

The CDE wet processing system was specifically designed to process difficult construction and demolition waste materials and optimise material recovery. The plant is fed by an R2500 primary screening unit, which scalps off the oversized



+100mm material. The remaining material enters the M4500 modular washing plant which feeds, screens, washes and stockpiles on one compact chassis. The M4500 produces two washed aggregates (4-40mm and 40-80mm) and two sands (0-4mm and 0-2mm). The 4-40mm material passes to the AggMax 253R which is ideally suited to ensure maximum product yield from clay-bound materials. Three scrubbed recycled aggregates are produced: 4-10mm, 10-20mm and 20 – 40mm. The plant also includes sliding dual sand conveyors which will give Brewster Bros the flexibility to blend sand to meet any specific grading requirements.



To increase efficiency, the plant incorporates a full water and sludge management system including an AquaCycle A600 thickener which, in combination with the CF8000 centrifuge, ensures 90% of water can be recirculated for immediate reuse in the plant, reducing the need for fresh top up water to a minimum.

David Kinloch, CDE Regional Manager UK & Ireland, said: "I am delighted to have had the opportunity to work with Brewster Bros to create a construction, demolition and excavation waste recycling plant bespoke to their site and production requirements.

This large-scale facility incorporates the latest CDE technology and will be a flagship project in Scotland. We wish Brewsters every success as they champion the move towards zero waste and embrace the circular economy and look forward to a continued strong partnership in the years to come."

Due to its Quality Management Systems, Brewster Bros' is an accredited supplier of Zero Waste Scotland's Aggregate Quality Protocol Director. Its facility responds to the ever-changing recycling landscape and supports the Scottish Government's aim of securing 70% recycling of construction and demolition waste by 2020.

The company takes over from an established family-run recycling business, Henry Gillies. Thanks to increased investment, Brewster Bros forecasts an annual turnover of £3m at the plant, which will boost the local economy and provide further job opportunities on top of all 20 job roles retained from the previous owner.



Scott Brewster, Director at Brewster Bros, said: "It's an exciting day as we officially launch the UK's largest recycling facility of this type. Our number one aim is to treat and recycle construction and demolition waste as a resource, ensuring zero waste to landfill.

"Through significant investment into state-of-the-art recycling techniques provided by the plant supplier CDE Global, we are looking forward to shaping the future of the recycling industry across Scotland and beyond. This new plant should act as a game-changer for the construction industry, by saving money for our customers and ensuring they can dispose of their construction and demolition waste in a sustainable manner."

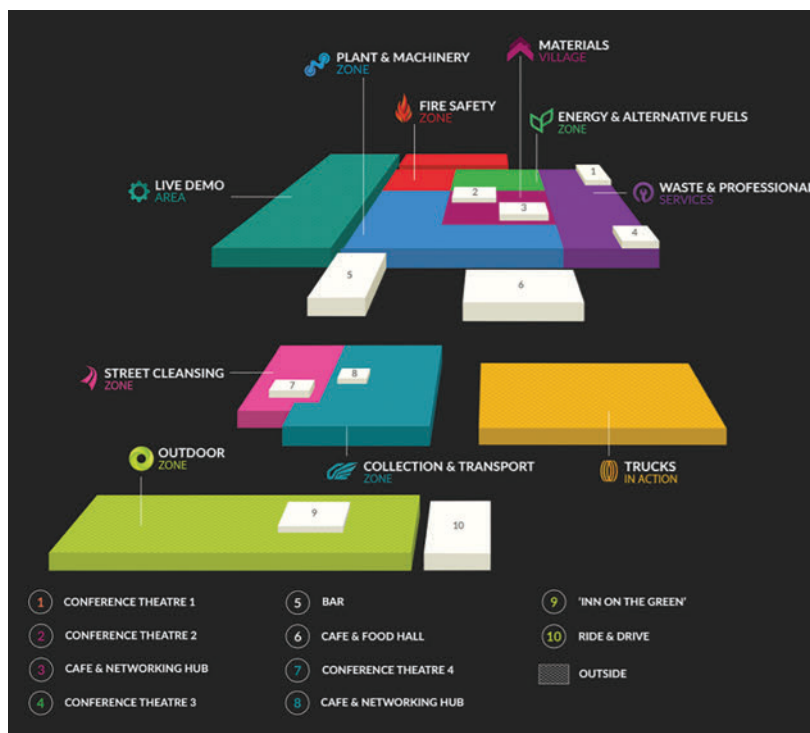
Stephen Boyle, from Zero Waste Scotland, said: "We are delighted to see the addition of this new plant in the central belt to help support the construction trade with its recycling with the aim to reduce the use of landfills. We hope the industry acts on the commitment to become more conscientious when it comes to construction waste and the opening of this new plant is a big step in the right direction."

All recycled materials from the plant will come with a UKAS accredited quality certification and conform to the requirements for the BREEAM Sustainability Assessment Method for Construction.



New Waste & Recycling Show - Letsrecycle Live

As we enter 2019, we look ahead to the next major event in the waste and recycling calendar - Letsrecycle Live, taking place on 22 - 23 May 2019 at Stoneleigh Park. The organisers promise that the event will bring the industry and its supply chain to life, in one of the sector's most exciting developments in recent times. We take a closer look at what the show will offer for visitors and exhibitors alike.



SEVEN SHOW ZONES

Letsrecycle Live consists of seven show zones spread across indoor and outdoor areas. With a focus on seeing equipment, vehicles and machinery in a live environment, the show will bring product and service providers together with tier 1, 2 & 3 waste and recycling businesses, material processors and skip hire businesses in an environment conducive to building lasting business relationships.

LIVE DEMONSTRATIONS

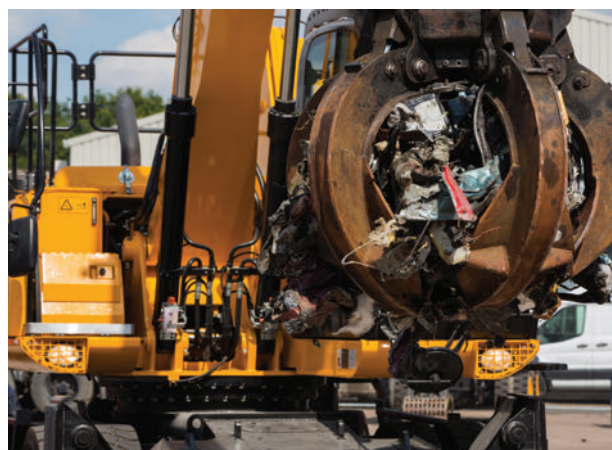
In an industry first, the new show features three separate demonstration areas and will see material being processed live on site by a range of shredders, balers, screeners and more. Fire experts Fireward will be running demonstrations of the latest automatic fire suppression systems, while exhibitors will be showing off the latest refuse collection vehicles in the Trucks in Action area.

Visitors to the show will see plant, machinery and vehicles in a working environment allowing them to make informed decisions about what might work best in their operation. There will also be an opportunity for participants to test drive vehicles from Dennis Eagle and other leading suppliers in the ride and drive area.

CONFERENCE & MEETINGS

The indoor exhibition boasts three conference theatres, hosting a range of focused seminars and debates tackling the key issues and topics. Key sessions include a focus on the resources and waste strategy, Brexit and apprenticeships.

Visitors are also invited to host their own meetings at the show and can take advantage of free bookable space, open for meetings between 2 & 50 people, providing a private space in which to work and do business.



NETWORKING

Running alongside the main event, are a series of networking events designed to bring people together in a positive networking environment. Events include; a Women in Waste breakfast meeting, Meet the Buyer events and live music at the 'Inn on the Green' pub – A tongue in cheek reference to the old events down on the south coast at Paignton.

The show will also play host to the waste and recycling industry's first event charity white collar boxing event. With more than 10 bouts scheduled between leading industry figures, the gala dinner, which takes place on the evening of the first day will raise money for Child Bereavement UK.

For more information about visiting or exhibiting, contact info@letsrecycle.live or call 0207 633 4518



Blue is a one stop shop for Prichard's Contracting

Prichard's Contracting takes advantage of being able to purchase all their wood recycling equipment through Blue, instead of making several purchases through different suppliers...

Over the past 24 years, Prichard's have grown immensely, and diversified, since it first began as a Plant Hire Company at Tom Prichard's father's farm in 1995. Today the firm offers a wide range of services which include; demolition, site clearance, ground remediation bulk earthworks, infrastructure services, waste management and recycling. With more focus on the Recycling Industry over the past few years, it is this sector that become one of the biggest parts of the company, as Prichard's operates four waste sites across South Wales.

Prichard's has recently constructed a community recycling centre in Llantrisant, where the firm processes a mixture of waste, collected from local councils, as well as deposited by the public. Securing several large-scale contracts, meant that the site had high volumes of wood waste that they needed an outlet for. Consequently, Prichard's decided to shred the wood for Biomass, so began the process of investing in a wood recycling process and two biomass boilers at the Llantrisant site.

Prichard's first started their Biomass production with a Doppstadt AK 230 high speed shredder, but soon realised they needed a bigger machine due to increased tonnages coming in to the yard, as well as create a very specific biomass chip size for their new boilers. Therefore, the company required a further machine to not only increase the efficiency of their process, but also to enable them to produce a specific biomass wood chip specification. Mike Crooke, Recycling Supervisor at Prichard's decided to contact Brian McNabb from Blue Southern and requested to have a Doppstadt slow Speed Shredder DW 3060 K on demonstration to evaluate whether it was the right machine for their production.

Tom and the team were so impressed with the product the shredders were producing together and the excellent re-sale value Doppstadt holds, that they quickly decided that the Doppstadt DW 3060 K was the right investment for the company. Tom Prichard explains "The Doppstadts are working extremely well for us and when I'm buying machines, I always look at their re-sale value, we always try and buy leading market brands that retain their value, and Doppstadt does that"

After the success of the Doppstadt machines, Mike decided to contact Brian again as the company required a new material handler and urgently needed to replace their old screener due to it breaking down. Brian suggested that the company should go try the Powerscreen brand and specifically Chieftain 2200, as it would enable Prichard's to increase the amount of material they process. Furthermore, the Chieftain 2200 boats two double deck screen boxes, which would enable the firm to separate the processed wood into three sizes and circulate any unwanted oversized product back into the shredders, ensuring the firm achieved their desired 80ml wood chip.

Prichard's also took a Fuchs MHL250 on demonstration, as they wanted to compare its performance to another competitor machine. However, Mike and Darren xxx, who is one of the Plant Manager at Prichard's, both agreed the Fuchs was significantly better in both power and comfort, hence, it was an easy choice to go with the Fuchs MHL320. Mike explains "I spend about 14-15 hours a day in that cab and it is very nice environment to work in. It's smooth, versatile and easy to use. We tried a competitor machine and it didn't come close to the Fuchs' performance." Darren also added "Fuchs have created a brand, where if someone mentions material handlers you instantly think of Fuchs, so it has a good name to invest in."

The Prichard's:





- Material is fed into a Slow Speed Shredder – Doppstadt DW 3060 K by a Fuchs MHL250.
- Material is shredded to <200ml.
- Ferrous metal is removed by over-band magnet.
- Material feeds into a High-Speed Shredder – Doppstadt AK 230.
- Material is processed further processed further to <80ml.
- Material travels into a Powerscreen Chieftain 2200 where it separated into three sizes; 0-10ml, 10ml to 80ml, oversized
- <10ml material falls through 0-10ml woven wire mesh screen deck
- >10-80ml material is separated by 80ml woven wire mesh screen deck
- Oversized material is recirculated back into Doppstadt DW 3060 K to be processed again

The performance and re-sale value weren't the only winning factor for Prichard's choosing to deal with Blue, as Blue's Spares and Service is a huge benefit for the firm. Tom Prichard comments "Blue's Service and Spares parts is a big advantage, as their backup and aftersales service is always good and reliable. The right back up from a company you are buying from is so important, because if it isn't reliable backup, it essentially means more downtime will occur." Jason, who also manages the maintenance of the machines within the firm adds "Spares are good to deal with, Rebecca is excellent and very knowledgeable. With other firms, I can give them a list of parts I need and then I have to chase and chase, but you don't have to do that will Blue, you know they will get it sorted quickly."



2018 marks a record year of sales for Eddy Current Separators

In 1969, Eriez Magnetics was the first company to patent both permanent magnetic and electromagnetic Eddy Current Separators (ECS). Just a few years before, at a product seminar held in front of Eriez Headquarters and industry guests, the world's first Eddy Current Separator was demonstrated by Bill Benson who developed the unit alongside Eriez Research Engineer, Tom Falconer. Today, thanks to the benefit of more powerful magnetic materials, Eriez' Eddy Current Separators are successfully installed worldwide in the recycling industry.

In 2018, a record number of over forty Eddy Current Separators units were sold into the European market, providing recycling companies with optimal recovery of valuable non-ferrous metals from all waste types.

Eriez has over 25 years of experience in manufacturing Eddy Current Separators and the design has been refined through extensive research development and material testing. As a result, Eriez has developed a comprehensive line of non-ferrous metal separators in different configurations and size ranges to fulfil the diverse requirements of the industry.

The very first developed were the HD and LC models, designed for the separation of aluminium cans and marked the beginning of the evolution of Eriez Eddy Current Separators. The following generations, the ST and LT units, saw a deeper field design of the LT model enabling increased performance when processing larger particle sizes +50mm whilst the ST model was designed for smaller non-ferrous



metals and PET waste. Today, the RevX-E ST22 ECS unit offers unprecedented recovery of non-ferrous metals as small as 1-2mm and continues to be at the forefront of the industry.

For complete metal recovery, Eriez manufacture a range of modular systems to separate ferrous and non-ferrous metals, designed to incorporate additional separators including overband magnets and magnetic drums, into stand-alone systems.

Due to the increasing sales of ECS units, a new extension to Eriez' European manufacturing facility, was completed in autumn 2018. The investment of the new facility is set to increase the production capacity of Eddy Current Separator rotors by a third, per year.

<https://www.youtube.com/watch?v=7OD71rtd63w&t=2s>

Elite Precast Concrete are the largest manufacturer of interlocking concrete blocks in the UK

Elite Precast Concrete Ltd are the largest manufacturer of interlocking concrete blocks and traffic management / security barriers in the UK. Elite operate from two factories in Telford where all of the precast concrete products are manufactured using the same high strength (50N/mm²) concrete which is batched on site from high quality BS EN approved aggregates and cement.

They have been in business for over 11 years and have never used recycled / waste materials in the concrete which is in turn therefore extremely durable and has got a design life of over 100 years.

The interlocking blocks have a huge range of uses from the construction of material storage bays, retaining walls to being used as counter weights (also known as "Kentledge blocks") for perimeter hoarding and security fencing.

Elite's concrete barriers are used throughout the UK for a huge variety of projects playing vital roles in temporary works schemes such as traffic management, edge protection, perimeter security and workforce safety (reducing the risk of collisions with HGVs).

Elite are also approved for use in the rail, defence and nuclear industries and in the utility sector being proud holders of RISQS, UVDB and JOSCAR accreditations.



The company holds kitemarks for a wide range of drainage products and use the same highly regulated Quality Management Systems for the manufacture of all of the products.



Whilst Elite have a proven track record in supplying many of the major infrastructure projects in the UK including 2012 Olympics, 2014 Commonwealth Games, Crossrail, HS2, Hinckley Point C, A14 and London Tideway, the company also prides itself on offering "good old fashioned customer service" to all of its clients. This means all clients (from private housebuilders to international joint ventures) get one to one personal service from one of Elite's experienced technical sales team.

Logistics are provided by one of Elite's trusted partners which combined with Elite's massive stock levels means that clients get 48 hour lead times and delivery via all types of vehicle including standard flat bed artics, rigids, crane off-load, moffat / telehandler off-load, FORS Bronze, Silver and Gold, Crossrail, CLOCS and HS2 / Euro 6 compliant vehicles and a next day pallet line service for smaller orders.

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“It’s the best thing we’ve done so far...”

According to co-Directors, Iain Saunders and Rob Darlington, of Asphalt Surfacing Ltd on the recent purchase of their first Volvo P6870C paver

Bringing more than sixty-five years of joint experience within the ‘Asphalt’ industry, Iain Saunders and Rob Darlington decided to join forces to establish their new venture together just seventeen months ago.

“Rob has years of experience working for several large contractors from the ground up, from working in paving gangs to managing fleets of equipment and teams of men, whilst my background is on the quarrying side - selling asphalt, aggregates and quantity surveying,” explains co-Director, Iain Saunders. “Bringing our extensive experience has got Asphalt Surfacing off to a fantastic start and we’re continuing to build our portfolio of regular customers operating from two offices - one in Dursley in Gloucestershire, the other in Llantrisant, South Wales.”

“We employ a team of twelve men full time and, until now, we’ve hired in wheeled pavers to cover our contracts. With Rob’s own experience of operating ABG and Volvo pavers and the preference of our crews, our collective choice has always been for Volvos! The volume of work we are now undertaking from both regular and new clients, has made commercial sense to purchase our very first paver and it just had to be the Volvo P6870C,” he adds.

The P6870C is powered by a Volvo D6 Stage-IIIB compliant 175hp engine. At its heart is the EPM II feature – an electronic paver management system which incorporates a ‘Settings Management’ feature allowing the operator to store up to twelve parameter settings for major functions such as screed temperature, tamping & vibrating, conveyor, auger & paving speeds.

The machine has other unique features such as ‘Smart Power’ offering optimum power for the job together with 6x6 ‘Smart Drive’ technology for unparalleled continuous independent traction control over all six wheels. Even on the most difficult bases, tractive forces are automatically adjusted according to the weight of material in the machine’s 12-tonne capacity hopper.



Screed performance is a distinct feature on Volvo pavers. The P6870C has a variable screed width of between 2.5 and 5 metres in standard configuration but can be fitted with optional extensions to provide a generous width of 9 metres. The machine has a theoretical output of up to 700 tonnes per hour at varying screed widths and depths. >





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In addition, it demonstrates a high degree of manoeuvrability, thanks to the 'Active Steering' feature with an inside turning radius of just 2.5 metres. "I'm really impressed with the machine's ability to turn on a sixpence," says Rob Darlington. "It's really proving to be an optimum paving machine for us working in confined areas, yet still has a significant production output for road surfacing contracts," adding that the machine can be doing just 24 tonnes up to 400 tonnes in a day's shift. "It's all about getting the job appraised correctly, delivering a quality service to our clients and making a reasonable margin at the end of the day."

"Another critical factor is the level of support when we need it and certainly our experience to date with SMT's mobile engineer, Simon Ford, has been exemplary. When we've had the odd issue, Simon is there right away and getting it sorted. Again, this is critical for us and another reason why we've chosen the Volvo paver," says Rob.

In addition to the paver, Asphalt Surfacing has also purchased a Volvo DD25B tandem roller and both machines have been painted in the company's white livery. "Although we are based in Gloucestershire and South Wales and have picked up some long standing contracts with local authorities and customers in this region, we will follow our clients anywhere in the country and are keen to promote a 'can do' approach accordingly," says Iain Saunders.

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

SN Engineering's passion for engineering excellence, combined with its determination of continual product improvement represent the best partner for our clients

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storage terminals for ship unload and tanker loading for onward shipping to the end users.

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SN Engineering's in-house designed & built range of loading bellows & dust filters, which enjoy the benefit of preferred supplier status with many leading multinational organisations, has ensured major growth over the past decade. With our continual R&D in these two fast growing sectors has benefitted

from many enhancements over this timeline, all aimed at improving customer operational & maintenance experience.

Our range of Outloader® loading bellows, for road & rail tanker loading &/or stockpiling has seen the marked growth in our Series 7000 / 7001 go from strength to strength. Added to this, our Series 8000 is fast becoming the preferred unit for new installations where these can be designed in.

The Series 8000 Outloader® benefit from a high efficiency integral dust filter c/w extraction fan & compressed air receiver (for auto clean down) thus the requirement for ducting back to existing, or new, standalone filter is eliminated. As this offers a totally closed loop system, that not only is compact & aesthetically pleasing, ensures the filter dust is re-introduced into the loading system thus eliminating the need for clients to handle &/or dispose of collected dust.

Cubis Systems Chooses a Rapid International Bespoke Static Concrete Batching Plant to Future-Proof Output and Quality

Cubis Systems, an operating division of one of Europe's leading building materials companies, is the global leader in the manufacture of access chamber and ducting systems, used in the construction of infrastructure networks. Headquartered in County Armagh, Northern Ireland, the company has seven manufacturing sites across the UK and Ireland and exports to over 25 countries worldwide. In 2018, Cubis chose a bespoke Rapid concrete batching plant solution for its County Armagh site, in order to support the future demands in both output and quality required by its customers.

made the process of achieving desired outputs and tensile strength of the final product more difficult to control and time-consuming.



Cubis operates across 7 sectors, including telecoms, highways, rail, light rail, water, power and energy and the Ministry of Defence. Its extensive product offering includes network access covers and chamber systems, cable protection products, conductive concrete and chamber accessories. Cubis's enviable client list includes BT Openreach, EDF, Highways Agency, Eircom, Network Rail, SNCF, Tyco, Virgin Media and many more internationally recognisable companies.

A new system required for greater flexibility and consistency

Until 2019, Cubis's prior concrete production system involved the use of a volumetric truck mixer. This production method



With a desire to continue targeting key global markets, Cubis required a new system which offered a greater degree of consistency, flexibility and increased outputs to keep pace with growth. With this in mind, a project team was established to identify the best available machinery. Cubis desired to not only find appropriate equipment but also establish a partnership to develop solutions collaboratively.





Colin Bridges, Performance Manager at Cubis, explained, "We wanted a company who could develop the process to remove inconsistent and uncontrolled concrete mixes to guarantee a higher quality product and to allow us to control mixes to design higher strength products, ultimately giving us the capability to enter markets we previously couldn't compete in. It was also important to be able to draw on readily available expertise, backup and support. During the tendering process, it became clear from an early stage that Rapid International could satisfy all our requirements."



The Rapid solution

The bespoke Rapid concrete batching plant, co-developed with Cubis, integrates a Rapid RP500 1 door Planetary mixer, positioned on a specifically designed platform, granting easy access for maintenance. The Rapid Planetary concrete mixer features outputs of 0.5m³ per batch, a pneumatically operated discharge door with heavy duty mechanisms, extra thick chill-cast wall and floor tiles and a 22kW 3-phase motor. The mixer is ideal for precast applications, making it a perfect choice for Cubis. The mixer's star mixing action creates high turbulence resulting in a thoroughly consistent and homogenous mix. The mixer's motor and gearbox are

positioned on top of the mixer allowing easy access for cleaning and maintenance, a key consideration for Cubis. Cubis also opted for an optional Rapid Jetwash to enable fast and powerful mixer cleaning. The Rapid Jetwash is a fully galvanised, self-contained, high pressure mixer washout system used for fast and effective mixer clean out. Each wash cycle takes just four minutes and the 2,000psi unit can power up to four mixers simultaneously.



The bespoke plant also comprises of 2x 20T aggregate storage bins with pneumatic discharge doors (discharging onto the weighed belt below) and 300W electrical vibrators. The plant's integral 600mm weigh belt is capable of delivering up to 200TPH and has a weigh capacity of 0.75m³ per batch. The plant also features a 0.75m³ mixer filling skip.



Installation to the letter

Colin Bridges, Performance Manager at Cubis, concludes, "Rapid has delivered on all fronts – from expert advice during the consultation period, to the project being delivered on time. The action plan of installation was followed to the letter, and everything was completed efficiently and professionally – including the daily support offered on site in the early implementation period. Cubis has benefited from this project, through improved Health and Safety, higher quality and consistency of concrete mixes, increased productivity, reduced maintenance and downtime, reduction in material waste and a cleaner working environment."





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- Issue 55

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