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Issue 28

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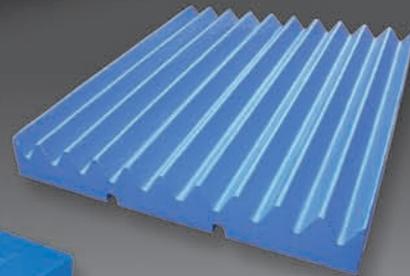
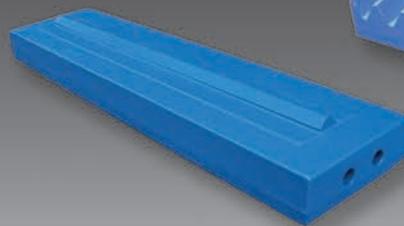


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Welcome improvement in ready mixed concrete markets

Ready mixed concrete markets in Great Britain are expected to increase by around 5% during 2013. It has been a roller coaster for the industry in recent years. Demand for ready mixed concrete fell by 8% last year. This cancelled out the improvement which the industry enjoyed in 2011.

Industry marketing consultancy, BDS Marketing Research Ltd, expects that the ready mixed concrete industry can now enjoy steady increases in the market over the next few years. Chief consultant, Julian Clapp, said 'the housing market is at last showing signs of improvement. This is expected to be followed by recovery in industrial and commercial building. There are also a number of major infrastructure projects which will come on stream over the next few years'. BDS is forecasting average annual growth of around 5% in each of the next three years. However, by 2016, demand for ready mixed concrete will still be below 2007 pre-recession levels.

These are some of the conclusions of BDS Marketing's annual report on the industry entitled: 'Estimated market shares of ready mixed concrete companies in Great Britain'. This estimates the market shares of all companies in the industry, by county, regionally and nationally. As well as a three year forecast, the BDS report identifies plants and companies that have both closed and opened over the past 12 months. Around 70 plants have either opened or closed since the start of 2012.

This is the only published report that lists all companies in the industry. It includes details of 225 businesses that mix concrete at static batching plants as well as a further 200 volumetric companies.

The major company change over the past year has been the formation of Hope Construction Materials which acquired more than 170 plants from Lafarge Tarmac. This was a pre-requisite laid down by the Competition Commission for the merger between Lafarge and Tarmac to go ahead. The BDS report includes the estimated shares of these companies, both before and after the change of ownership.

The BDS report also includes details of three other industry acquisitions made in the last 12 months.

BDS has calculated that Hanson is the largest ready mixed concrete company in the country, followed by Cemex. The formation of Hope Construction Materials has resulted in the new company becoming the third largest concrete business.

The consultancy estimates that Hanson is the largest supplier in southern England and Wales. Cemex is the leading company in east anglia and the north west. BDS believes that Hope is now the largest concrete company in the midlands and northern England.

www.bdsmarketing.co.uk

Mobile and Static Crushing, Spares and Wear Parts

CMB International continues to provide leading edge crushing and screening services with their range of innovative and efficient processing machinery. Combining advanced technology along with mineral processing fundamentals, CMB can now offer a comprehensive range of mobile and static crushing and screening equipment.

CMB have created an impressive family of processing plant, including Jaw Crushers, Cone Crushers, Screens and Feeders.

The CMB Cone Crusher family is made up of the RS150, RS225 and will shortly include the RS185.

All CMB Rockstar Cone Crushers compose of modern high strength cast steel, and all roller bearing that featuring hydraulic adjustment that enables the operator to rapidly alter the close side setting, if necessary during operation. The machines' hydraulics also incorporates tramp metal release, automatic reset and an unblocking feature, which will clear the crushing chamber in a matter of minutes.

The RS150 cone crusher is capable of processing up to 140tph depending on the closed side setting, and can take a feed of up to 150mm. The crushing components are made up of high strength cast steel and are designed in such a way as to get maximum crushing force to gain impressive reduction ratios. This machine is ideal for secondary and tertiary crushing applications where good product shape is required.

The RS225 cone crusher is capable of processing an impressive 330tph and can take a maximum feed size of up to 280mm. This heavy-weight machine has a large unobstructed feed opening, where there is no large mantle nut. The one piece upper frame eliminates the requirement for holding down bolts. The automatic, hydraulically tensioned wedge is a feature that allows for easy maintenance operations. CMB have allowed for thicker manganese to provide longer life between re-metals, along with a specially curved profile to allow for unscreened feed and producing good shaped material.

The recently developed RS185 sits perfectly in between the RS150 and the RS225. This cone crusher is the smaller version of the RS225, maintaining the same advanced features that have been developed for its "big brother" but have been adapted for smaller applications. The capacity exceeds the RS150 due to having a wider feed opening and a larger crushing chamber. Applying the crucial crushing forces, as with the other Rockstar crushers, you get a lot of "Bang For Your Buck!"

The CMB Rockmonster 1100 x 800 Jaw Crusher has been created to withstand the most extreme crushing conditions. The rugged design ensures the longevity of integral parts, giving maximum support in areas where the major crushing forces are applied.

The Rockmonster allows for high output of good shaped material, with minimal maintenance and unattended operation.

Understanding the evolution of mineral processing and realising the high demand for mobile plant, CMB have designed a complete range of tracked and wheeled plant that is capable of performing in some of the world's most extreme environments. The mobile plant has been developed around the impressive range of static equipment that CMB supply. Crushing knowhow and experience has rocketed CMB to the forefront of the competition, with machines being shipped across the global market. Forging a close and personal partnership with Atlas Copco, who rely on CMB for the crushing component (RS150) on the PC1000 mobile plant is an indication of CMB's intentions and capabilities.

The CMB T88i is an all hydraulically driven tracked primary plant, capable of processing 300tph. It consists of a grizzly fines-screen to remove any material that is already product within the feed, which is removed via a side mounted folding dirt conveyor. The grizzly screen then feeds the CMB Rockmonster 1100 x 800 Jaw Crusher. The advanced crusher soft-start minimises stress on the engine and transmission and provides a fast and controlled stop on shut-down. The Auto-Crusher Reverse feature provides a quick unblocking of the crushing chamber in the event of a stall. The CMB T88i is the ideal machine where the requirement for hard, continuous processing is required whilst maintaining impressive reduction ratios.

Along with the T88i, CMB have also developed a range of mobile cone crushing plant. The BX610 and BX650 provide a competitive option for secondary and tertiary crushing systems. In response to customer demand and pressure from regulatory bodies for improved access and safety while applying tighter emissions limits, the BX610 and BX650 tracked mobile cone crushing plant offers ground level access to all major operational and service features.



The unique engine and transmission arrangement bring routine maintenance within easy reach, without the need for ladders and walkways. Fuelling, operation and filter changes are all carried out at low level. The product conveyor has the ability to eject, giving easy access to the underside of the crusher chamber for inspection and maintenance. This feature also enables easy seal and bearing changes to the feedboot, along with the replacement of wear plates. No more clambering down the belt!

All of CMB's equipment can now be provided in a Modular Smart Plant. This provides the customer with the benefits of static plant, whilst allowing them to easily re-locate should it be required. Each component of the Smart Plant is designed with its own fabricated structure, platform and drive, eliminating the requirement for civil engineering.

CMB carry a comprehensive stock of crusher wear parts including various types of bowl liner and mantles to suit the application, jaw liners, and VSI rotary tips. CMB also supply other essential crushing wear parts such as mantle nuts, cheek plates, and frame arm shields. Along with wear parts, CMB also supply integral spares for cone and jaw crushers. Whether it is shafts, toggle plates, seals, or cast components; CMB aim to provide superior quality parts at a competitive price.



www.hub-4.com/directory/185



NEWSFLASH

CMB are pleased to announce the sale of an RS150 Cone Crusher into CEMEX East Leake Quarry. The RS150 will replace an existing Pegson 900 Cone Crusher. In order to cater for the application at East Leake and to utilise existing drive, CMB have de-rated the RS150 from a 40mm throw to a 32mm throw option - eliminating the un-necessary cost for a new drive motor.

CMB's impressive screening profile is also rapidly increasing, securing orders for bespoke screens going into Hanson Bulls Lodge and CEMEX Isle of White, whilst also carrying out major repairs on screens in both CEMEX Dover and Northfleet.



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CONEXPO-CON/AGG 2014

CONEXPO-CON/AGG will be the global gathering place in 2014 for the construction and construction materials industries - an unparalleled opportunity to:

- **Connect with the leading U.S. and global manufacturers and service providers**
- **Take advantage of expert education**
- **Network with industry peers from around the world**

CONEXPO-CON/AGG 2014 and the co-located IFPE 2014 will be held March 4-8, 2014 at the Las Vegas Convention Center in Las Vegas, USA. IFPE focuses on fluid power/power transmission/motion control.

CONEXPO-CON/AGG 2014 already covers a record-breaking 2.3 million net square feet of indoor and outdoor exhibits.

On the CONEXPO-CON/AGG 2014 show floor, a new Demolition & Recycling exhibit pavilion, sponsored by C&DRA, the Construction & Demolition Recycling Association, will showcase exhibits and products specific to C&D recyclers and demolition contractors.

AGC, the Associated General Contractors of America, brings back its Technology & Construction Solutions pavilion for contractor software providers, finance and leasing companies, insurance providers, and related suppliers of contractor business solutions.

Safety and education/training will be spotlighted with focused industry events in the outdoor exhibit lots:

- The NRMCA International Truck Mixer Driver Championship, from the National Ready Mixed Concrete Association, will take place in the Blue Lot.
- The Lift Safety Zone, from NCCCO National Commission for the Certification of Crane Operators and IPAF International Powered Access Federation, will be in Gold Lot #1817.
- The Crane Operator Rodeo will be in Gold Lot #2875, sponsored by Maximum Capacity Media.

International exhibit pavilions at CONEXPO-CON/AGG 2014 include China, Ireland, Korea, Spain and United



Kingdom. These country-specific pavilions offer attendees a wider range of business solutions and help them develop more global industry contacts, while participating exhibitors gain access to customers outside their home countries.

Comprehensive education programs at CONEXPO-CON/AGG 2014 will help attendees conveniently sharpen their professional skills and improve their businesses' efficiency and productivity, all vital to stay competitive in the marketplace.

Industry experts will share the latest operational techniques and management strategies, with sessions offered at varying times throughout the show for attendees to maximize their time onsite.

The show planner

The show planner - and mobile app - help attendees more easily get around the show. Attendees can search show maps and exhibitor lists by hall/lot location, booth number, company name and type of product. They can assemble their personalized daily schedule of booth visits and education, and edit it pre-show and onsite. The mobile app will be continually updated with exhibitor and event information and an up-to-the-minute Twitter feed.

It will be easier than ever to get around at the shows, so attendees spend less time searching and more time connecting with the companies and products they want to see.

A new show footprint consolidates outdoor exhibit space into three large areas (a new Platinum lot located across from South Hall joins Gold and Silver) to create better attendee flow between outdoor and indoor (including IFPE) exhibits.

Attendees will also find more unified, better defined product concentration areas to help them make the most efficient and productive use of their time onsite, coupled with an enhanced internal shuttle system to more easily get from one show area to another. Knowledgeable onsite guides will be available to help answer any questions.

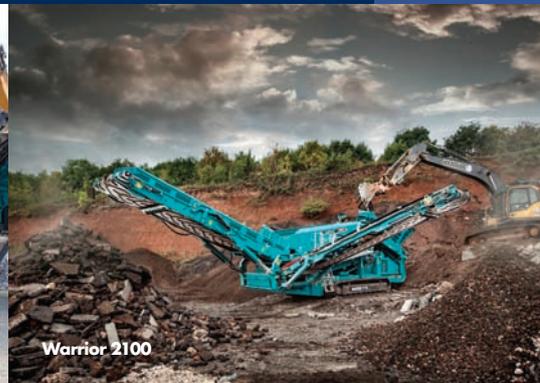
For more information, go online to www.conexpoconagg.com.



Premiertrak 300



Trakpactor 320SR



Warrior 2100

Launch of three new Powerscreen® machines at Conexpo

Powerscreen, one of the world's leading providers of mobile crushing and screening equipment, will attend CONEXPO-CON/AGG 2014.

Powerscreen will be exhibiting on the Terex stand at booth #1047 in the outdoor Gold Lot at the Las Vegas Convention Centre from March 4th -8th, 2014 and will exhibit three new machines: the Powerscreen® Premiertrak™ 300 jaw crusher, Powerscreen® Trakpactor™ 320SR impact crusher and the Powerscreen® Warrior™ 2100 screen.

Commenting on the forthcoming line up at Conexpo, Damian Power, Powerscreen Global Product Line Director, said, "Conexpo is the perfect time to launch these exciting new Powerscreen machines to the global market. We look forward to meeting with customers and discussing the features and benefits of our extensive product portfolio."

All of the machines on display will showcase the rugged new look from Powerscreen which maintains the traditional Powerscreen green colour while adopting a dark grey colour on the chassis and conveyors. The new paint scheme provides an updated, modern look to the machines.

Premiertrak 300 HA Hydrostatic VGF jaw crusher

The Premiertrak 300 jaw crusher features the new hydrostatic drive system option allowing it to reverse and unblock or run continuously in reverse for asphalt applications. It is designed to run at low engine RPM resulting in excellent fuel efficiency and low noise emissions, ideal for urban sites. The Premiertrak 300 crusher features a Vibrating Grizzly Feeder (VGF) set with 50mm bofor bar on the top

deck and 30mm mesh on the bottom. The closed side setting (CSS) can be set to 40mm while running in both asphalt and recycled concrete applications.

Other benefits of the machine include: large clearances in the bypass chute to improve material flow and reduce the chance of blockages in sticky material; a large under crusher clearance and full tunnelling to reduce the chance of blockage due to re-bar build up; and a hydraulically lowering conveyor that offers excellent access to reduce downtime should a blockage occur.

Rapid set-up times are possible with all folding done hydraulically and no need to work at height so the machine can be moved quickly. Control is via an easy to use PLC screen control system. Jaw speed and CSS can be changed by a single button which allows the machine to be adjusted to suit the application quickly with no tools required.

Trakpactor 320SR impact crusher

The Trakpactor 320SR is a mid-sized horizontal impact crusher redesigned with some key enhancements to offer operators and contractors excellent reduction and high consistency of product shape for performance in quarry and recycling applications. The plant is capable of working in the most demanding environments and features rapid set-up time, fuel efficient direct drive system and excellent output potential of up to 320 tph (352 US tph). The plant features a recirculating conveyor which raises for transport allowing more ground clearance under the machine when moving on site and loading for transport. One of the most exciting features of the Trakpactor 320SR crusher is the quick-detach post-screen section which converts it to a standard Trakpactor 320 unit. This provides operators with outstanding versatility to use the machine in a variety of different applications.

Warrior 2100 screen

The Warrior 2100 screen is engineered to include our proven Triple Shaft technology first developed for the successful Warrior 2400, a model which is now well established in markets worldwide. This Triple Shaft technology, unique to Powerscreen heavy duty mobile screens, is designed so the 16' x 5' screen box is highly effective and efficient while maintaining exceptional throughput productivity. The extreme screening acceleration offers the Warrior 2100 screen improved capabilities over its class rivals, especially in sticky scalping applications. The machine can process mixed demolition waste which includes grass, soil, concrete, wood and asphalt, and can be configured with a combined top deck of 60mm fingers with 60mm punch plate and a bottom deck of 40mm mesh.

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Conexpo launch for Compact JCB 525-60 HI-VIZ Telehandler

JCB - the world's number one telescopic handler producer - is unveiling a new compact model at Conexpo 2014 to add to its growing Hi-Viz Loadall range for construction. The launch of the 525-60 brings full-size telehandler performance and features to the compact sector.

With a maximum lift height of 6m and a load capacity of 2.5 tonnes, the 525-60 is just 1.8m wide and 1.91m tall, allowing access to multi-storey car parks and permitting operation in confined site conditions. The 525-60 Hi-Viz replaces the 524-50, 527-55 and the 520-50 rear-engined models, with a modern side-engine mount design. This permits a low boom pivot point for maximum stability and increased visibility to the rear and across the boom.



Powerful drivetrain

Powered by a new Tier 4 Final, 2.5-litre, JCB Diesel by Kohler four-cylinder engine, the 525-60 delivers 55kW (74hp) for easy lifting performance and rapid travel. As with other JCB engines, there is no requirement for a diesel particulate filter or an SCR system to meet the Tier 4 Final emissions regulations. This means that the JCB machine has a service-free emissions control system, reducing operating costs and complexity for customers.

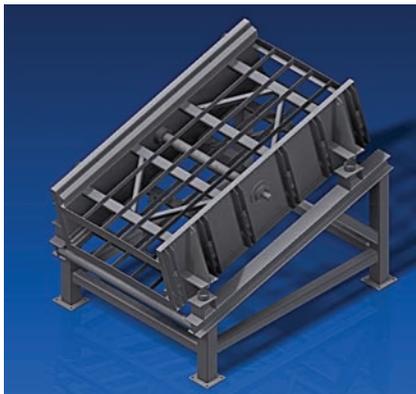
A simple to operate two-stage hydrostatic transmission offers travel speeds of up to 25km/h and the short wheelbase makes the 525-60 an extremely manoeuvrable machine. Equipped with an 80 litre/min hydraulic pump, the machine delivers auxiliary hydraulic power for a sideshift attachment carriage. Customers can choose between JCB's Q-fit carriage or a skid steer compatible attachment interface for ultimate versatility and fleet acceptance.

All boom functions are controlled by a single servo lever joystick, with proportional control of the two-stage boom extension allowing smooth operation and fine control for the operator. The machine is available with a choice of canopy or fully glazed cab, with the option of air conditioning.

Serviceability is much improved with the side-mounted engine installation and, depending on territory, the machine can be supplied with JCB's LiveLink telematic monitoring system for maximum fleet visibility and maintenance control. Options include full road light kits and screen guards for harsh working environments.

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SmicoSymons Unveils 1st Hydraulic Opening/Closing Clamp Rail System for Screens at CONEXPO-CON/AGG



SmicoSymons Vibratory Screens, in collaboration with patent owner Advanced Screening Technologies, Inc., will exhibit the screening industry's first hydraulically-operated opening and closing clamp rail system for fast change outs of worn or broken tensioned screen media on one or more decks simultaneously at CONEXPO-CON/AGG 2014 in the Platinum Lot, booth 90710. With a push of one or more buttons, clamp rails on selected decks or all decks will hydraulically open. Once replacement media is in place, one or more buttons will close and tighten the clamp rails to the specified distance from screen box walls until they achieve the proper even tension.

This breakthrough technology results in four primary performance-related advantages. First, it reduces costly downtime to change out worn screens from an average of 8-12 hours on common size triple-deck screens to 3-4 hours. Second, since change outs require far fewer hours, producers can capitalize on more product flexibility from the same screen boxes. Third, screen media is expected to perform longer due to the hydraulic clamp rail system's consistent tensioning, reducing the frequent problem of breakage with improperly manually tensioned screen media. And fourth, the system may significantly reduce one of the primary causes of Worker's Compensation claims - changing screen media.

Formed from two leading industry brands, Smico Manufacturing Co. and Symons Screens, SmicoSymons offers a combined 170 years of experience to the screening industry. The legendary Symons product line focuses on the aggregate and mining industries while the Smico product line focuses on the industrial, food and minerals industries. The screens are proudly manufactured in

America and deliver both standard and customized screening solutions for a wide range of common and specialty applications worldwide. Unlike many other manufacturers, SmicoSymons continues to modify existing screening models and engineer custom screening solutions for its broad customer base. Unique production conditions and process variables make selection of the proper screening equipment a critical factor for operational success. SmicoSymons' qualified materials test lab ensures that the machine type, size, setting and screen media selected will achieve the precise sizing and tonnage per hour required for each specific application.

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A satisfied customer is the best advertising, ever. That's why we keep raising the bar with ever safer, more innovative and environmentally sound solutions. That makes a difference where it matters the most – improving your result.





Trakpactor 320SR Mobile Impact Crusher

Powerscreen, one of the world's leading providers of mobile crushing and screening equipment, launches the new Trakpactor 320SR impact crusher.

Damian Power, Powerscreen Global Product Director, said, "Building upon the success of the Powerscreen® Trakpactor™ 320 impact crusher for the quarry and recycling industry, the new Trakpactor 320SR crusher is set to establish itself as a class leader amongst its peers and demonstrates what is possible when we work with customers in defining features and specifications."

Trakpactor 320SR impact crusher

The Powerscreen Trakpactor 320SR is a mid-sized horizontal impact crusher redesigned with some key enhancements to offer operators and contractors excellent reduction and high consistency of product shape for performance in quarry and recycling applications. The crushing chamber features an 1130mm x 800mm feed opening,

hydraulically assisted CSS adjustment, 4 bar rotor and twin apron design, and hydraulic overload protection as standard. New to this model is an optional fully independent hydraulic pre-screen which improves fines removal and reduces chamber wear costs

The plant is capable of working in the most demanding environments and features rapid set-up time, fuel efficient direct drive system and excellent output potential of up to 320 tph (352 US tph). The plant features a recirculating conveyor which raises for transport allowing more ground clearance under the machine when moving on site and loading for transport. One of the most exciting features of the Trakpactor 320SR crusher is the quick-detach post-screen section which converts it to a standard Trakpactor 320 unit. Other available options contributing to the versatility of the machine are a grinding path, hydraulically folding mid-grade stockpiling conveyor, an extended fines conveyor with a class leading discharge height and a twin pole overband magnet. As with all Powerscreen equipment, it comes complete with the latest generation engines to meet all global emission standards.

Visit us at ConExpo 2014, Terex booth 1047 on the Gold Lot, to see the Powerscreen Trakpactor 320SR impact crusher on display.



www.hub-4.com/directory/679

Terex Finlay will be exhibiting two machines at CONEXPO/CON-AGG

Terex Finlay will be exhibiting two machines at Conexpo / Con-agg - the Terex® Finlay 684 3-deck inclined screen and Terex® Finlay J-1170 jaw crusher.

The new Terex® Finlay 684 is a highly versatile and adaptable machine engineered and built for working in quarrying, mining, construction and demolition debris, topsoil, recycling, sand, gravel, coal and aggregate applications.

The Terex® Finlay 684 is a compact easily transportable machine that offers operators' rapid set up and tear down times. The new screenbox on the Finlay 684 features three full size 4.3m x 1.7m (14'x5'7") inclined decks giving a large screening area of 21.9m² (236ft²) to provide efficient screening and high capacity. The screenbox features quick wedge tensioning, access holes and bottom deck hydraulic tensioning system to reduce time required for mesh changes. All four discharge conveyors hydraulically fold for transport providing the operator with rapid set up and tear down times. The fourth product 'oversize plus' conveyor can work at varying angles to accurately discharge material for recirculation and stockpiling.

A high performance 1050mm (42") belt feeder, with hydraulic gearbox drive, is fitted to the machine as standard and has proven performance and versatility in demanding and varied working environments. The hopper has a 8m³ (10.50yd³) capacity as standard and can be fitted with a 14ft tipping grid or 12ft vibrating grid.

A Caterpillar C4 82kW (111Hp) air cooled engine is used to power the machine. The heavy duty crawler tracks, and optional radio remote control unit, make on site mobility very easy.

This fully self-contained plant can be hydraulically folded and ready for transport in less than 30 minutes making it the ideal machine for contract screening.

Key Features:

- NEW triple deck configuration with 3 full size decks 4.3m x 1.7m (14'x 5'7") with full catwalk access
- The fourth (oversize plus) conveyor can work at varying angles and can discharge from 15°-24° for recirculation to crusher or for stockpiling.
- Maximum utilization of three full size 4.3m x 1.7m (14'x5'7") decks provides ultra-efficient screening capabilities even at small aggregate sizes.
- A combination of quick wedge tensioning, convenient access holes and hydraulic tensioning on the bottom deck ensure mesh set up and change out times are kept to an absolute minimum.



Terex Finlay J-1170 jaw crusher

The NEW Terex® Finlay J-1170 is a high performance primary mobile jaw crusher built around the renowned and aggressive Terex® 1100mm x 700mm (44" x 28") jaw crusher, with a proven track record in recycling, aggregate production and mining applications.

The Terex 1100mm x 700mm (44" x 28") jaw chamber provides excellent material reduction and product sizing in the processing of blasted quarry rock and ore material. The jaw chamber is also available with optional hydraulic release, an excellent feature when crushing construction and demolition debris. The hydraulic release option has an automatic overload protection system to prevent damage by uncrushable items in the feed material.

The machine is powered by either a Tier 3 / Stage 3A Caterpillar C9 261kW (350hp) or a Tier 4i Scania DC9 70A 257kW (350hp).

Hydrostatic transmission of the jaw chamber offers operators reversible operation in the event of a blockage. The hydrostatic system also provides variable chamber speed to suit given applications. The crusher features hydraulic assist Chamber CSS (Closed Side Setting) adjustment, and can be changed in a matter of minutes.





The machine has a heavy duty variable speed vibrating grizzly feeder (VGF) with integrated pre-screen, providing an aggressive action to separate fines material efficiently. The variable speed VGF ensures continuous choke feeding of the crushing chamber for optimal productivity. Material from the pre-screen can be diverted to a stock pile via the on board by-pass conveyor, or join the crushed product on the main belt.

The large 9.6m³ (12.55yd³) hopper has hydraulically folding sides and an innovative hydraulic self-locking mechanism to provide efficient and faster machine set up and tear down times .

“The J-1170's 45 tonne transport weight and compact dimensions mean lower transport costs between and within crushing sites. The robust and intelligent chassis design, with good clearance on both ends, also enables safe and easy loading onto all transport trailers. When you combine these factors with the excellent crushing capabilities the machine easily meets the demands of owner operators and crushing contractors” said Nigel Irvine, Sales and Marketing Director.

Key Features:

- Robust proven Terex 1100mm x 700mm jaw crusher for high capacity and large reduction ratios in quarrying, mining, demolition and recycling applications.
- Optional hydraulic release for demolition and recycling applications.
- Compact dimensions and quick set-up make the J-1170 the optimum solution for contract crushing as well as demanding in-pit applications.
- 45ton/99,600lbs transport weight ensures easy transport of machine between work sites.
- Full CANBUS control system.
- Hydraulically assisted closed side setting adjustment minimizes downtime and offers quick adjustment.
- Excellent fuel economy
- Safe, quick and easy service points for regular maintenance

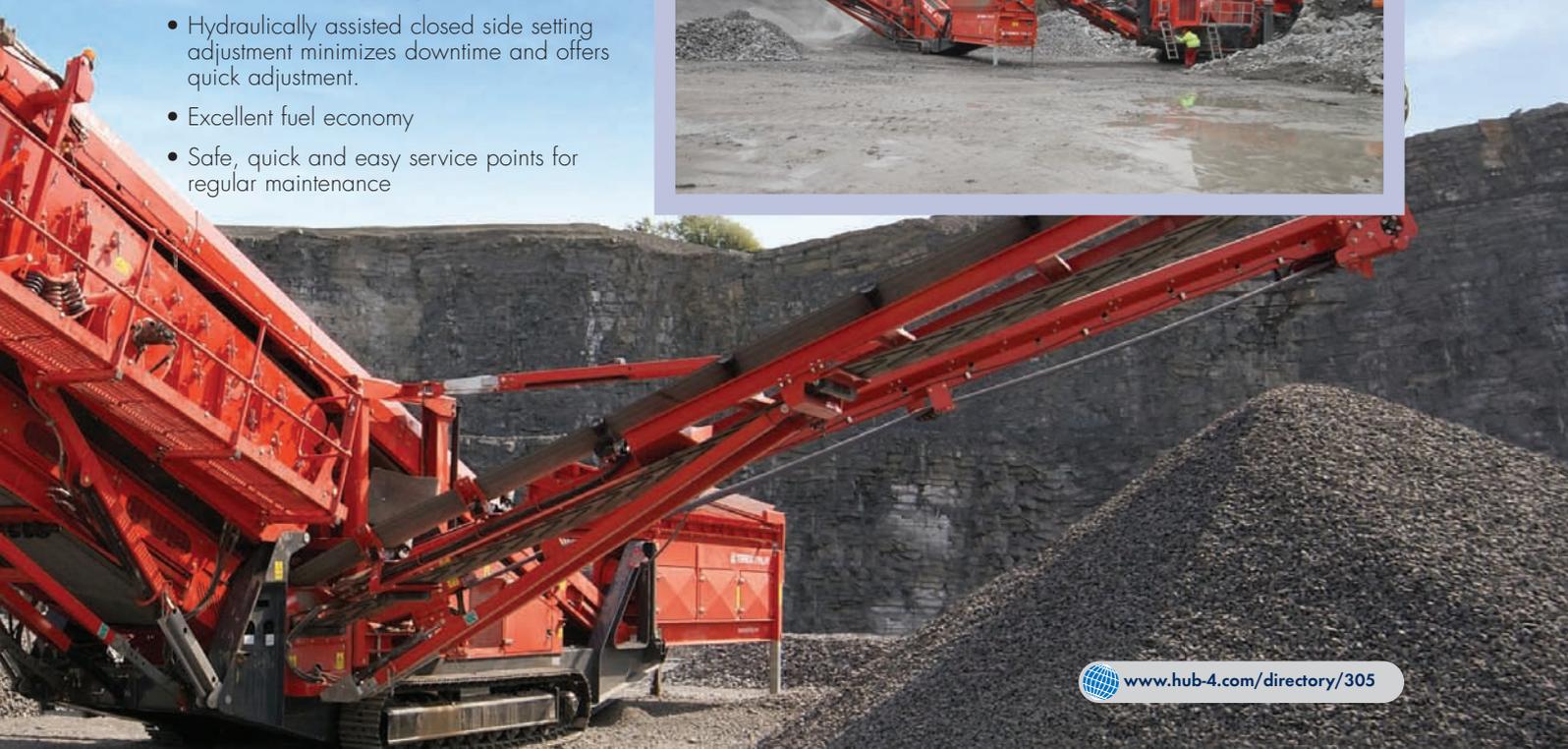


Exceptional growth in North America

“We look forward to attending the Conexpo/Con-agg show. In the past couple of years we have recorded exceptional growth in North America. The timing of the show has been perfect for our business as it allows many of our new dealers, and of course our established dealers, the opportunity to meet and connect with customers on the stand.

The show will be the first time either the J-1170 jaw crusher or 684 3-deck inclined screen have been displayed at a show in North America. Both machines were introduced in the past 12 months to the North American market, and have made a big impact on the market, becoming firm favorites with their operators and now sit at the front of mind with many owner/operators in the industry.

Our experienced team of mobile crushing and screening professionals will be available on the stand throughout the show and look for to meeting and serving both new and existing customers” said Keith McCann, Sales & Marketing Director (North America), Terex Finlay.



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Experts In customized solutions for dredging challenges to exhibit at CONEXPO-CON/AGG 2014



Louisiana-based DSC Dredge, LLC will have its experts in industry-leading customized dredge technologies available at CONEXPO-CON/AGG 2014 for questions and discussion in booth 30040 in Central Hall 1. For over 20 years the company has been focusing its expertise on the design and manufacture of customized portable cutter suction dredges of all sizes and applications for the dredging markets. DSC Dredge units are in use throughout the world in construction, environmental, mining, navigational, recreational, restoration and specialty applications.

Since every application has unique characteristics, DSC Dredge has developed its specialization in customizing standard dredge platforms to meet the challenges of each customer. Prior to making any recommendations, the company goes through a rigorous process of establishing the application parameters. This information may include factors such as dredging depths, types of materials, distance and elevation to discharge, portability requirements and access to power grids. Only then will the company recommend a specific solution based on the actual application and customer requirements. Units are then built to order in one of three manufacturing facilities to the exact specifications required. Customers are encouraged to visit the facility at any time in the build process and to follow their unit through manufacturing, delivery, commissioning and on-site training completion.

DSC Dredge's dredging solutions are based on a number of application-specific platforms that are then customized to match the specific application. The Marlin Class deep mining dredge has been

designed as an efficient method for excavating deep mining deposits with its underwater pump system and high-torque cutter drive. The Shark Class cutter suction dredge is a tough, yet portable design most commonly used in the sand and aggregate production arena. Often called the contractor's "dream machine," the Barracuda Class dredge features a swinging-ladder design used most often in waterway maintenance and lake revitalization projects. DSC's Moray Class conventional/swinging-ladder dredge was designed around the concept of a versatile design in a smaller portable package unmatched in the industry, often used in the environmental cleanup and irrigation applications. Rounding out the line are the Badger Class and the Wolverine Class dredges, designed for the contractor with a compact yet portable design that is fully functional by one operator. Several of the DSC Dredge platforms are available with electric power for applications requiring sustainable attributes.



Telestack will be exhibiting at Conexpo Con/Agg 2014

Telestack Ltd are proud to announce that we will be displaying some of our Mobile Bulk Material Handling equipment at Conexpo Con/Agg 2014 In Las Vegas. This is our third time attending the show as an exhibitor and since we first visited back in 2008 we have sold over 140 machines and counting into the North American market as well as building on introductions at previous shows to sell equipment right around the world.

This year we will have an outdoor booth in the Platinum Lot Booth 7009 where we will have on display 3 machines that are new to the North American market for us. The factory Sales and Technical teams will be on hand to meet with existing dealers and customers as well as potential new dealers and customers.

The World Launch of the latest model in our track mobile Hopper Feeder range will take place and we are excited by the potential for this machine in North America and beyond

HF518 Tracked Hopper feeding Fixed Incline Conveyor



HF521 Tracked Hopper Feeder feeding TS542 Radial Telescopic



This unit has been developed in response to feedback from dealers and customers and can be used in a multitude of applications from reclaiming in the quarry, mine and port to loading barges on the inland river network

Also on display will be the latest generation in our Track Radial Range. The TC 424R incorporates a number of design/performance improvements that have again come from customer input over the past 2 years

TC424R Tracked Radial Conveyor automatically stockpiling



In many applications, this range from Telestack is becoming more popular than traditional track conveyors as it allows customers to combine the benefits of track mobility for ease of moving around the site/moving from site to site, being able to build radial stockpiles from one fixed position without having to reposition the crusher/screener thus reducing downtime and wheel loader operating costs, and also being able to operate the unit using the PLC program to reduce segregation/degradation and keep dust levels to a minimum.





In fact a lot of the time the Telestack TC Radial range will do all that the operator needs a Radial Telescopic unit to do, but at a much lower capital cost

Our 3rd unit on display is the new Water Cooled TC 420 X which is the first of the new design to arrive in North America and replaces the very successful previous model

TC420X Tracked Conveyor stockpiling from a crusher

We will have videos and photographs on display of the rest of the Telestack family of equipment including Radial Telescopics, Track Mobile Truck Unloaders and track mobile link conveyors.



In 2014, we are looking forward to expanding our aggregates customer base which already includes Martin Marietta, Teichert, Vulcan, Tilcon, Old Castle, CRH, La Farge, Holcim, Cemex, Hanson Aggregates - Heidelberg, Iluka Resources and many more.

We are proud to have been selling equipment in North America since 2007 and our "best in the industry" network of full service dealers ensures we are able to fully support our customers.

Telestack are continually looking to expand our network of dealers in North America and the rest of the world and we invite any company with an interest in selling our equipment to visit our booth

Our equipment is operating all over the world, often in extreme and harsh conditions. This proven record of performance coupled with our ability to continually innovate mobile bulk material handling solutions to meet the requirements of our customers helps ensure that we will continue to expand our product offerings in the years ahead.

 www.hub-4.com/directory/7299

Metso's new construction technology innovations will make rock history through increased efficiency and safety



Visit Metso booth number 50979 at CONEXPO 2014 in Las Vegas next March to find out more...

The success of quarry owners and infrastructure contractors depends on the reliability, efficiency and safety of their operations. They seek partners who continually support the search for better results in these important areas. We at Metso utilize our deep technological know-how to deliver cutting-edge solutions and services designed to make real and sustainable difference to our customers' business.

For this reason we are proud to present at CONEXPO-CON/AGG 2014 show new technologies and services offerings that will shape the industry's future.

- The highlight of Metso's booth will be a new two-in-one model belonging to our innovative Lokotrack product group. This new mobile equipment is a true showstopper, reducing transportation costs and set-up time whilst delivering optimum fuel efficiency. We will tell more of this groundbreaking product during the show. It is designed to work together with our Lokotrack LT106 mobile jaw plant, which will also be showcased at CONEXPO.

- The HP3, part of Metso's new generation of high-performance

cone crushers, increases crushing efficiency and throughput, reduces energy consumption, and improves safety and maintenance. The HP3 is more versatile than previous-generation cone crushers: In some cases, it can replace two units, significantly reducing investment and operating costs.

- Metso Quarry Supply Solutions is a new service offering - providing a "one-stop shop" for all quarry supply needs. It combines delivery, installation and consulting to support a full range of consumable products (crusher wears, lining solutions, synthetic and wire screen media, as well as a wide array of conveyor components, accessories and belts).

The Metso booth will also serve as customers' first introduction to the Lokotrack ST2.8 mobile screen, which sets a new standard for mobile scalping screens. The ST2.8 is ideal for recycling and multi-stage crushing applications, offering improved material separation with more precision and reduced fuel consumption.

Metso's booth will also highlight some of Metso's impressive milestones - all part of an in-booth experience that looks at our significant heritage, but also focuses on the industry's future.

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**Major Wire Showcases
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In Both A New, Highly
Automated Quarry & A
Yukon Wildcat Gold
Operation At CONEXPO-
CON/AGG 2014**



Montreal-based Major Wire Industries Limited will display its market-leading Flex-Mat® 3 High-Performance Screen Media at CONEXPO-CON/AGG 2014 in Central Hall C5, booth 52456. Come discover how it is significantly increasing production in a wide range of screening operations from one of the most advanced automated new quarries in the world to a wildcat gold operation in the Yukon. Also, learn why in a recent industry publication survey producers ranked Flex-Mat 3 number one in performance among self-cleaning screens. Flex-Mat 3 is available in both tensioned and modular panels so woven wire, polyurethane and rubber users can benefit from its non-blinding and pegging capabilities while also increasing in-spec production.

Major Wire offers a variety of screen media solutions so customers in aggregate, mining, recycle and slag can fine tune their screening production, resulting in the most tons per hour of in-spec products for the least cost possible. Stop by and see Flex-Mat 3 High-Performance Screen Media in Tensioned and Modular versions, OptimumWire® Woven Wire, Double-Weave™ Woven Wire and Flex-Mat 3 Double-Wire™ for the greatest impact resistance and HyperSlot™ for warm and hot mix asphalt and other sticky material applications.

 www.hub-4.com/directory/7555



Conexpo exhibit to highlight how Terex works for you

Terex will showcase a comprehensive range of products and services at CONEXPO 2014 in a spacious outdoor exhibit located in the outdoor Gold Lot, booth number 1047. The Terex exhibit is designed to introduce the company's latest products and reinforce its commitment to delivering customer-driven equipment and service solutions for the construction, infrastructure, quarrying, mining, shipping, transportation, refining, energy, utility and manufacturing industries.

The Terex Aerial Work Platforms, Construction, Cranes, and Materials Processing business segments will showcase new equipment, innovative safety features and unique service solutions. All of these offerings are designed to keep our customers' equipment up and running efficiently while lowering the cost of ownership to enhance their bottom line.

Terex also invites our friends from the press to stop by our stand. In addition to new equipment and customer support hubs, we've included a dedicated Press Center on our booth with meeting rooms where you will be able to schedule meetings with Terex team members, conduct interviews, or just take a break and access our microsite and press materials via wi-fi while enjoying a beverage and snack.

Terex Construction:

Visitors to the CONEXPO 2014 exhibition will be able to experience for themselves how Terex Construction machinery offers productivity, reliability and efficiency across the range. From site dumpers to material handlers, mobile excavators to backhoe loaders, compact track loaders to wheel loaders, we offer a broad range of hard-working equipment that delivers value directly to our customers' businesses.

The Terex stand will showcase machines from across the construction range including the Tier 4i/ Stage IIIB TSR60 skid steer featuring a rated operating capacity of 1,500 lbs (680 kgs) to the largest machine in the compact wheel loader range, the TL120. Visitors to the stand will learn how the TL120 loader, with its latest Tier 4i/Stage IIIB compliant engine, offers more power and torque at the operator's fingertips with the new Terex Smart Control system for precise, comfortable and productive work.

Each machine has been designed and developed based on detailed customer input and visitors will experience this first hand and meet the faces behind the products.

 www.hub-4.com/directory/817

Terex Washing Systems to announce launch of new larger AGGRESAND™ 206 Wash Plant at CONEXPO

Terex Washing Systems (TWS) is gearing up to exhibit at CONEXPO 2014 and will use this platform to announce the launch of the new larger model of the Aggresand™ range, the Aggresand 206 washer, suitable for all industrial, construction, recycling and mining applications. This larger Aggresand™ model shares all the unique modular features of the Aggresand 165 model launched in 2013 including ease of transportation, rapid set-up time, pre-wired and pre-plumbed and HMI Control System, which have been delivering efficient, productive performance for current owners.

"We are excited about making our debut at CONEXPO," said Sean Loughran, Director of TWS. "Our engineers have been working on finalising design and specification of the new larger Aggresand 206 model to give our customers the same benefits as the Aggresand 165 system, but with even more capacity. We're looking forward to meeting our customers and showing them how this new system will help their businesses."

The official launch and unveiling of the Aggresand 206 will take place at Hillhead Show, Buxton, England in June 2014, when TWS will also launch another new product, the next generation logwasher, the Aggrescrub 150.

The new model, Aggresand 206, utilizes the well proven Terex® 20'x6' inclined rinsing screen and will be available in two or three deck options. It is directed at the larger producer who wants to increase the tonnage per hour up to a maximum of 400 TPH



TWS will exhibit the ever popular FM120BW bucket wheel dewatering system at CONEXPO. The FM120BW system continues to be an extremely efficient plant effectively solving customers washing requirements around the world including recent installations in 2013 in Russia, Australia, Turkey and the Middle East.

The FM120BW which TWS will be showcasing is a unique sand plant which brings together traditional dewatering buckets and hydrocyclone technology on one chassis. The unit is particularly suited to high wearing abrasive sands as the buckets reduce wear on the rubber lined centrifugal pump and cyclones. The unit is also capable of processing a feed product up to 2". The primary purpose of the FM120BW sand plant is to remove the unwanted silt <75 micron (200 Mesh) and dewater the clean sand down to 10% moisture.

"We hope our CONEXPO exhibit and new product announcements demonstrate our commitment to providing enhanced and unique solutions to meet every customer's individual needs and demands," said Loughran. "Our team draws upon years of expertise from the rich heritage of our legacy companies and we look forward to addressing all your mineral and aggregate washing queries."

Terex Washing Systems will have a team of technical sales engineers on two stands at CONEXPO, Terex Stand - Gold Lot, Stand #1047 and Invest Northern Ireland Stand - Central Halls C3-C5 #51404.





BRUCE celebrating 55 years of business

Cookstown based Bruce Materials Processing Solutions are celebrating over 55 years in business and are the longest established manufacturer in Ireland of materials handling equipment with a strong focus on export markets. Recently Bruce picked up the prestigious trophy for best Business in the SME class at the recent Mid Ulster Business awards.

Bruce Materials Processing Solutions was formed in 1958 by James Bruce who had identified a need for quality engineered solutions in the mineral extraction industry. The business is still family owned and run with the emphasis firmly focussed on quality, from the design process to final commissioning.

Over the last 55 years Bruce has grown dramatically but has retained a strong customer focus going from 'strength to strength' designing and manufacturing new innovative equipment. From being the sole manufacturers in Ireland of the electromagnetic vibrating feeder, Bruce has developed a wide range of products, from quarry processing plant to a full range of sand & aggregate washing equipment.

As the exclusive HARDOX Wearparts distributor in Ireland for many years Bruce are in an ideal position to make sure that every project is specified and manufactured to the highest standards using high quality materials.

Bruce sets themselves apart from similar manufacturing companies with their ability to see projects through with personal contact throughout the process. The company pride themselves in being able to complete projects from the design, no matter how bespoke, through to the manufacturing, installation & commissioning stages.

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

Why not join in the celebrations by calling on the Bruce stand at **Conexpo, Las Vegas from 4th - 8th March 2014, at Halls 3-5 Stand 51404.**

Bruce will also be exhibiting at Scotplant in April and Hillhead in June 2014 where the company will be showing it's most recent, innovative designs and welcome you to discuss any project requirements.



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VOLVO CONSTRUCTION EQUIPMENT





Impact Air Systems Expands to New Premises in Response to Global Growth

Impact Air Systems, the Leicester-based waste extraction and separation company is celebrating its relocation to new, larger premises this week, in response to strong global growth and an increase in demand for its services within the recycling industry.

The independently-owned company designs, installs and maintains systems that provide worldwide waste management companies with an efficient way of extracting and separating waste in order to reduce landfill and to increase the value of their recyclables.

Nick Ball, Impact Air Systems' Owner and Managing Director joined the company as work experience/van driver, at the age of 18, buying the company at the age of 32. Since then the company has enjoyed phenomenal growth and now installs air system solutions throughout many recycling and manufacturing companies across the UK, Europe, Japan, Russia and the US.

He comments on the relocation: "The recycling industry is experiencing exponential growth right now - it's worth over £25 billion in the UK alone. And growth means more demand for the systems and service that we provide. It's a dynamic industry, but it still has a long way to go, and it's services like ours that are helping to innovate and develop breakthrough technology - it's an exciting time."

Nick and his team of 30 has relocated to a two-storey building with a 2900sqft warehouse, which is now home to its Parts Replenishment Department and most importantly a new and improved Recycling Test Facility, where customers can bring samples of their materials to be separated and can 'try before they buy'.

Nick believes the Recycling Test Facility has played a huge part in the company's recent success: "Our new recycling test facility enables us to run regular waste management trials, which ultimately lead to a satisfied customer and a new installation. Aside from the commercial benefit of this, it also means more and more recyclable materials are being recovered, saving thousands of tonnes of landfill per system installed."

The larger premises also provide the opportunity for further product development and Impact have many new ideas in the pipeline.

 www.hub-4.com/directory/6743



Blue Group Launches New Spares Division



In 2014 the Blue Group has taken the decision to form a Spares Division. The new division has been set up in order to make a step change in the turnover of the spares business both domestically and internationally. Blue Spares the genuine arm of the spares division will focus on increasing turnover to its UK customer base whilst Wear and Spare Parts will look at expanding on an international basis with a number of routes to market being adopted. The objective of the new structure is to increase turnover to £12m and develop the Wear and Spare Parts brand on an International level, which will see a mixture of agents, distributors and Wear and Spare Parts offices globally.

In order to achieve the divisional objectives Stuart Truckel has been appointed as the Spares Division Sales Director due to his vast experience in the aftermarket sectors. Stuart has a proven track record in increasing turnover and developing overseas business through different routes to market. The new division has also appointed a new Export Manager and Export Sales Executive who both bring a wealth of experience in Exporting and the Global market place.

Commenting on the New Spares Division and the New Appointments Managing Director Sean Warburton said "The Blue Group has identified huge potential in the aftermarket side of its business and the investment in Stuart and the other new team members is a clear statement of intent to deliver our domestic and international customers the best level of service, availability and price. These are exciting times for the Spares Division and we are all looking forward to delivering a world class service to all of our customers."



 www.hub-4.com/directory/2260

Astec launch new Double Barrel® HR

The Double Barrel dryer/drum mixer combines the functions of a dryer and a continuous-process mixer in one compact, efficient system. Drying of the virgin aggregate is the first step in the process and takes place in the inner drum. Mixing of aggregate and other ingredients follows, in the outer, stationary shell.

Astec has just launched the new Double Barrel® HR which facilitates the mixing of higher levels of RAP and Virgin Aggregate in a specially designed Double Barrel®, which also encompasses the mixing of the RAP/Virgin mixture with bitumen and additives in an external twin-shaft synchronous mixer.

The benefits of the Double Barrel® HR

- o 60%+ RAP at 5% RAP moisture
- o 70% RAP at 3% RAP moisture

Process mixing

The Double Barrel® features state of the art drying technology (V-PAC™) which includes variable frequency drive, V-flights, exhaust temperature control and optional WMA system.

Virgin material enters the dryer and is dried in the inner drum over 160-200 seconds.

Just beneath the burner cone, the virgin material drops out of the dryer into the mixing chamber where RAP is added. The virgin aggregate and RAP are gently and thoroughly mixed over 60-87 seconds. As the RAP is introduced, there is a continuous release of steam as the RAP is heated. This is one of the keys to the success of the Double Barrel as a processor of RAP; the steam which is produced blankets the superheated virgin aggregate and RAP displacing the oxygen and resulting in less oxidation.

Fines are introduced further along the mixing chamber where they incorporated into the mix over 45-60 seconds.

External Mixer

The premixed virgin aggregate/RAP/fines blend then enters the external twin-shaft synchronous mixer where it is vigorously mixed with bitumen.

The external mixer provides many benefits, allowing the addition and mixing of additives. It provides product flexibility - production of emulsion mixes, coloured mixes, and 'cold mix' with optional components. It also provides process flexibility - allows for additional mix time and anticipation/control of process temperature excursions.

Emissions are dealt with effectively as steam and any blue smoke passing to the bag house are consumed by the burner flame. Providing high RAP addition with clear exhaust.

Due to the virgin material temperatures required for high % RAP addition, as an additional process safety measure, a temperature suppression system which blankets both mixing chambers with inert gas (steam) can be fitted.



DBHR Drum features

V-PAC™ Stack Temperature Control (Patent Pending)

- Provides positive control of bag house temperature
- Enables running mixes ranging from virgin WMA to high RAP and open grades mixes without flight changes

External Synchronous Twin-shaft Mixer

- Allows for greater separation of bitumen from hot virgin aggregate
- Allows for even longer mixing of hot virgin aggregate/RAP in mixing chamber

Combustion Zone Drum Enhancements

- Shell material change allows for higher temperatures at high %RAP
- Flight material change allows for higher temperatures at high %RAP

- Flight design change eliminates shell wear and protects shell from radiation

The stainless steel drum shell allows higher temperatures when running high % RAP. The stainless steel combustion flight incorporates a special flight design which eliminates drum shell wear, protects the drum shell from radiation and maximizes radiation input to the virgin aggregate.

Patented Astec WMA System (part of V-PAC™)

- Enhanced mix compaction and temperature reduction with no additives

What is the V-PAC™ Stack Temperature Control?

Incorporating the unique Astec V-flight, a variable frequency drive (VFD) drum drive is utilised to balance the drum exhaust temperature. VFD allows the operator to control veil density by changing drum rotational speed. Stack and mix temperatures can be controlled by increasing or decreasing the drum speed

- Increase in speed will decrease stack temperature
- Decrease in speed will increase stack temperature

A feedback drum speed control is also specified to hold stack temperature steady.

Why V-Flights?

The Astec V-flight has a v-shaped notch that allows the flight to more evenly veil at both high and low tonnages rates. The flight is taller than ordinary flights so that the entire flight carries a similar amount of material when completely full.

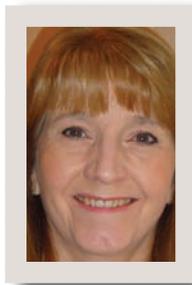
- Higher RAP % results in lower tonnages through drying zone, causing flights to only partially fill
- V-flights allow veiling over a wider range of tonnages

Available in the UK

In the UK, BG Europa (UK) Ltd has retained strong links with Astec Inc., co-ordinating with them to promote their range of equipment in the UK and as stockists of genuine Astec parts.

BG Europa (UK) Ltd was established in 1988 from the Barber Greene England company following Barber Greene's acquisition by Astec. Technology and expertise existing within Barber Greene at that time was incorporated within BG Europa (UK) Ltd. This expertise has been utilised to develop equipment integrating new technologies whilst retaining the traditional quality and dependability of Barber Greene.

 www.hub-4.com/directory/114



Angela Simkins to Lead RDS Technology

The newly appointed Managing Director of RDS Technology is Angela Simkins. Angela has 25 years general management experience and more recently has spent 10 years in an electronic engineering environment supplying to both on-road and off-road sectors.

Being a Chartered Engineer and Fellow of the Institute of Mechanical Engineering means that Angela brings engineering expertise to the role combined with a strong Lean bias gained during her time acquiring a Master's degree in Lean Operations.

Angela's arrival at RDS coincides with a rapidly expanding market for off-road vehicle electronics.

Angela comments that 'Following the acquisition of RDS by the US company, Digistar in late 2012, and the expanded and expanding technology base, the company is now poised to further enhance its current leading position in this growth market, in both the agricultural and construction sectors'.

Based in Gloucestershire, UK, RDS is a major supplier of hi-tech electronic monitoring and control systems to the mobile machinery industry both as an OEM supplier and through a network of specialist distributors. The company sells into 30 export markets.

 www.hub-4.com/directory/7810

Schenck Process Refurbishment Services keeps Proctor and Gamble plant fully operational



Schenck Process have recently successfully completed the refurbishment of key process equipment at the Proctor and Gamble site at London to ensure the efficient running of the plant. The work was carried out in the purpose made Refurbishment Cell at the Schenck Process' factory near Doncaster and caused minimal disruption the client's operations. By

refurbishing the equipment off-site this eliminates the need for any on-site supervision, work instructions and permits to be issued.

The refurbished equipment is part of the pneumatic conveying systems that has been supplied by Clyde Process, who are now part of the Schenck Process Group. The conveying systems at Proctor and Gamble handle a variety of materials

Central to all Schenck Process pneumatic conveying systems is the Original Dome Valve® which is a fast acting control valve. The refurbishment of the valves includes inspecting the dome for abrasive wear, replacing shaft bearings and seals where required and testing the operation of equipment and issuing a certificate of conformity. These are part of the 12 step refurbishment programme available on this product and other components of Clyde Process and Schenck Process pneumatic conveying systems.

 www.hub-4.com/directory/758

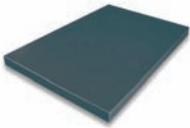
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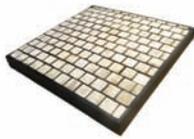
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Anaconda start 2014 with another product launch!

Anaconda Equipment has just announced the launch of another new product. The FSL100 tracked scalping screen has been designed to handle some of the toughest applications in the quarries, mines and recycling facilities. The robust design produces two end products and is popular as a 'pre' or 'post' crushing screener.

The FSL100 has been added to the Anaconda range to address requirements from customers around the globe who do not require conventional three-way segregation of product. The FSL100, like many of the Anaconda screens, will ship worldwide in a standard 40' container, reducing the cost exponentially the further you are from Northern Ireland. This really adds value to the product when compared to similar machines from other manufacturers.

The FSL100 is powered by a JCB444 Dieselmex engine or, alternatively, a Deutz TD2011FL04i engine. The two-deck vibrating grid can be fitted with grizzly bars, fingers, punch plate or mesh whilst the hopper is protected by a heavy duty plate to prevent damage when clearing the oversize product from the machine. The feeder belt and the discharge belt both offer variable speed control and the machine can be operated by wired or radio remote control.

Commenting on the latest model to be added to the range, Managing Director Alistair Forsyth, highlighted the need for this type of machine:



"Designing new products in tandem with our dealer network has been a key factor in our success to date. The FSL100 has once again evolved from these discussions and we hope we have been able to address a gap in the market for this type of machine. Although the machine is different from what has gone before, our customers will find the same core ingredients in this model - quality, robust design, easy to use and affordable!"

2013 has certainly been another milestone year for the team at Anaconda with sustained growth, an increase in the number and geographic spread of the dealer network, a host of new awards from different organisations, the launch of two more new products, and, an increase employee numbers. With promise of more product offerings and participation at major trade exhibitions coming in 2014, Anaconda continue to expand their operations.

INTRODUCING THE **NEW** TEREX FINLAY I-100RS IMPACT CRUSHER...

The NEW Terex® Finlay I-100RS direct drive Ø860mm x 860mm (Ø34" x 34") horizontal impact crusher with variable speed gives operators unprecedented levels of fuel efficiency and production in both recycling and quarrying applications. The machine features a 2.44m x 1.2m (8' x 4') single deck screen for sizing and recirculating oversize material back to the crushing chamber. The sizing screen can be quickly detached for applications that do not require resizing or recirculation of materials for further processing. The I-100RS features hydraulic folding of all conveyors providing rapid set-up times and easy point to point moves when operating on multiple sites.

Features:

- ▶ Direct drive Ø860mm x 860mm (Ø34" x 34") crusher chamber with unique belt tensioner system allowing for rapid adjustment.
- ▶ Hydraulic apron setting assist provides convenient and efficient adjustment of the aprons and hydraulic overload protection in event that an un-crushable object enters chamber.
- ▶ Detachable 2.44m x 1.2m (8' x 4') single deck screen returns oversize material back to the crusher via the on-board recirculating system.
- ▶ Quick and easy detachable screen, fines and transfer conveyor for open circuit crushing.



www.terexfinlay.com



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The new Enduron® family of comminution products

The new Enduron® family of comminution products positions Weir Minerals as a complete partner with mine operators around the world, enhancing our reputation as a trusted partner of the mining industry for more than 75 years.

The Enduron® SP cone crusher is characterised by a unique and ingenious design, easily combining light weight, compact, and robust frames resulting in one of the most advanced cone crushers in the industry.

- Higher productivity
- Better power transmission
- Higher capacity crushing chamber
- Minimal downtime
- Low operating & labour costs
- Easy-to-operate

The Enduron® MS and MS-H jaw crushers feature light weight, compact, and robust frames. Offering large feed openings and long jaws with big crushing strokes, Enduron jaw crushers are well suited for primary crushing purposes.

The Enduron impact crusher features a simple structure with low power consumption, high crushing ratio and superiority in even grain distribution.

Formerly known as Linatex® screening equipment, Enduron horizontal linear motion screen machines coupled with Linatex screen media are proven in highly demanding and competitive mining industries throughout the world.

Enduron screens meet the needs of modern high capacity plants by reducing the number of machines installed or production modules required, providing improved plant availability and space and energy savings.

A major innovation in screening technology, Enduron® 'Banana' multi slope screening equipment, with Linatex® screen media, is capable of achieving exceptional throughput per screening area. The screen includes any number of inclinations from two to as many as six varying from 45° through to horizontal on the last slope. The various slopes may incorporate deck media with different apertures to meet process requirements.

The screens are commonly designed to fit modular polyurethane deck panels. However, woven wire or punch plate may be used. Facilities may be incorporated to assist in the fitting of dust suppression covers.

More recently, banana screens in double deck execution have been developed to reduce the number of equivalent horizontal double deck units installed.

With improved efficiencies and increased capabilities, Enduron® dewatering screening equipment with Linatex screen media is a combination of proven media technology and innovative screen design.



Drive³⁶⁰

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you have to build the plant first.

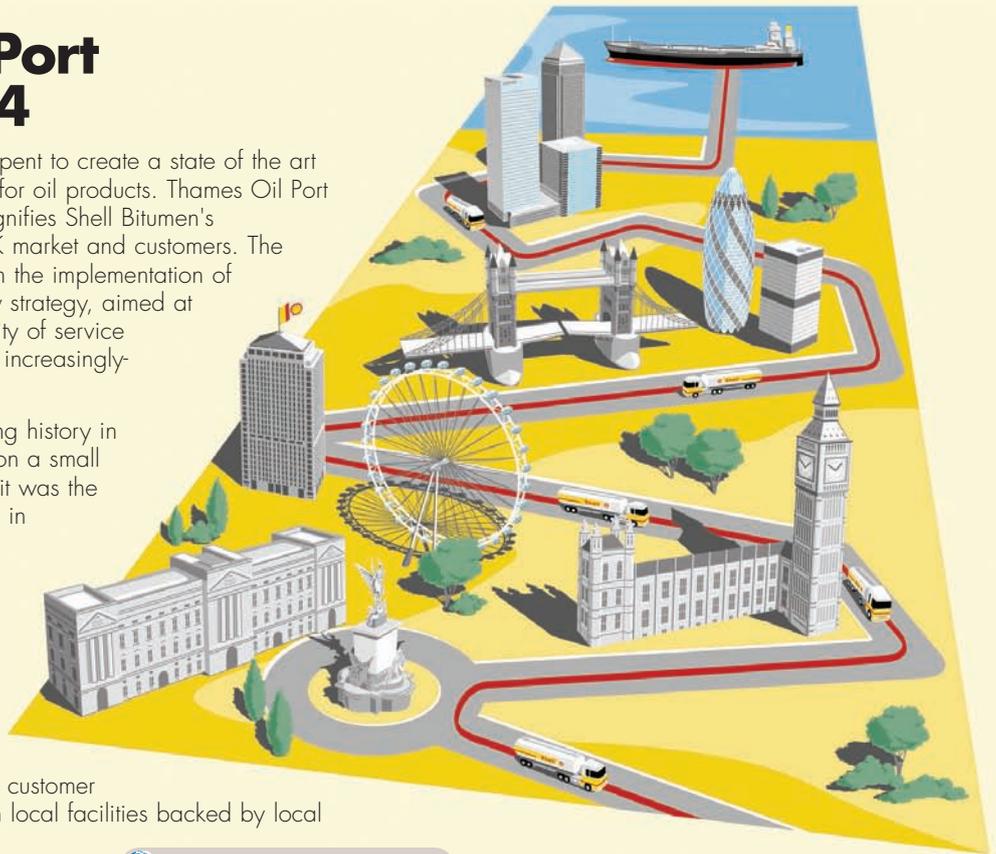
As a leading drive technology specialist, we also develop powerful industrial gear units. For this purpose we now have completed construction of a state-of-the-art, efficient plant with a unique modular production concept. And what's the good news for you? Optimum logistics, highest accuracy and speediness in fulfilling your specific orders, just to name a few examples. This is what we call Drive 360° – Seeing the big picture: From problem-solving competence to system availability, low operating costs to energy efficiency up to the overall system that handles all your tasks.

Thames Oil Port to open 2014

Significant investment is being spent to create a state of the art import and distribution terminal for oil products. Thames Oil Port is a strategic consortium and signifies Shell Bitumen's continued commitment to the UK market and customers. The depots represent a major step in the implementation of Shell Bitumen's European supply strategy, aimed at ensuring the reliability and quality of service expected by its customers in an increasingly-complex business environment.

Shell Bitumen has a long-standing history in the UK. Bitumen was imported on a small scale over 100 years ago, but it was the opening of Shell Haven refinery in 1920 that really made bitumen production take off in the UK.

Following the closure of Shell Haven, our strategic investment in Thames Oil Port means we can reconnect with our Thames Estuary heritage, and importantly, we will be able to react more effectively to customer demands in the South East, with local facilities backed by local logistics infrastructure.



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Canning Conveyor Expand Their Engineering Facilities

Founded in September 1965 Canning Conveyor is one of the country's leading suppliers of bulk material handling equipment providing expertise to a diverse range of industries that includes; Power Generation, Waste, Marine, Mining, Quarrying, Food, Agriculture and Film & TV.

Based at their HQ on the Sandy Lane Industrial Estate in Worksop, the Canning ethos ensures that by working closely with clients they can offer the most technically credible and cost effective solutions that satisfy the most demanding of standards.

New factory premises

As part of a £1m investment financed by Barclays Corporate for the expansion of its engineering department, Canning Conveyor has just completed the purchase of a new 4,000 sq/m factory premises which is located on Claylands Avenue Industrial Estate in Worksop. The complex is split into adjoining factory units each complete with full length, 5 tonne capacity cranes. The units will be split into fabrication, machine and assembly shops, with two storey offices.

This major expansion was required to facilitate the current engineering department workload, which currently includes major contracts for conveyor equipment (London Mining) destined for Sierra Leone and SuperDrive™ ground conveyor equipment (Sibelco).

The new factory will also provide better scope and facilities for additional larger engineering contract work. The company's success in gaining a 3 year contract with a large screen & crusher supplier for standard conveyor equipment will provide the foundations for future large scale projects. This new engineering facility will lead to future development for the manufacture and assembly of the Canning SuperDrive™ ground conveyor equipment and the Canning standard modular conveyors. This also coincides with the winning of a new order from Mansfield Sand & Gravel for a variety of ground conveyors, stockpiling & radial conveyor equipment.

The new expansion will also become the home of the Canning Film & TV conveyor equipment, including the unique patented Tumbleator™ moving platform, as this will provide the facility for build-up, pre-test and run for game-show, film and television work. This new facility was exercised recently for the pre-testing of Tumbleator™ equipment for the next Sky 1 game show 'A League of Their Own 8', which was recently fully operational at the new premises using a new bespoke 63 amp electric supply.

Canning Conveyor is also investing in additional works labour and engineering staff. Having recruited 15 new employees in the last three months, to handle the increase in engineering work within the Materials Handling Industry this additional manpower and the new factory premises will cater for this growth.



New projects

Canning Conveyor has just completed the installation of a project to design, manufacture and install the conveying system and structural steelwork that form part of the fuel handling system at a £200million state-of-the-art 50MW biomass combined heat and power plant currently being built at Markinch in Fife, Scotland. The system consists of both conventional belt conveyors and low maintenance air support conveyors and has been designed in close co-operation with both the principle contractor and end users. It has a design capacity of 920m³/hr. and is fully compliant with the requirements of CDM and ATEX.

Other high profile contracts recently undertaken include the design and supply of a conveyor system installed at a biomass plant at Tilbury and the design, manufacture and installation of part of the sewage handling system at the Shell Green process plant in Widnes. Contracts have also been supplied for a complete conveyor System for the PFA beneficiation plant at Fiddlers Ferry power station and biomass handling conveyor systems at Ironbridge, Kingsnorth and Didcot power stations.

In addition to these recent contracts, engineering work includes supply of ship to shore loading and unloading systems, mining and quarrying conveyor systems, structural bridges, screening equipment, silo's, crushers and general structural steelwork.

Working closely with Quality Assurance Systems International, Canning Conveyor have been assessed and approved to working to ISO 9001:2008 management systems, standards and guidelines.



In addition to the in-house design & manufacture of conveyor drums, Canning are now manufacturing their own idler transom frames / sets and are carrying out further development work of Canning Modular Conveyor sections as standard product ranges. Canning Conveyor offer full in-house design, manufacture & assembly facilities and can incorporate and offer, both an in-house shot-blasting and a paint spraying facility, to provide the customer with a truly 'One-Stop-Shop' service increasing the company's overall competitiveness within the market.

The company now employs 52 people and turnover has risen by 60% to £8.5m in the last two years.



The main shaft departs the new technical centre

CMS Cepcor is awarded a long term supply agreement by Lafarge Tarmac Ltd

Europe's largest aftermarket manufacturer and supplier of premium quality crusher, screen & asphalt plant spares and service - CMS Cepcor™ have been awarded a long term parts and service supply agreement by Lafarge Tarmac Limited, the joint venture company in the UK.

The agreement covers the supply of genuine and replacement aftermarket crusher and asphalt plant wear parts, crusher, asphalt and screen mechanical spare parts and associated installation and repair services to UK joint venture plants.

This new agreement follows successful completion of individual long term supply agreements held with both the Tarmac and Lafarge legacy business entities in the UK.

Supply of Nordberg 60x102 Mainshaft

CMS Cepcor™ have also recently supplied a fully UK manufactured mainshaft to suit a Nordberg 60x102 Gyratory crusher operated by Lafarge Tarmac's largest granite production site in the UK.

Forged, heat treated, precision machined and quality assured in the UK by CMS Cepcor™, the mainshaft measures over 7,500mm long x 1,300mm diameter, weighing approximately 42,000 Kgs.

CMS Cepcor™ offer a product range of premium replacement gyratory crusher spares which includes precision machined mainshaft assemblies, mainshafts, cores, spider bushings, eccentric bushings, shell bushings, mainshaft nuts, spider rim liners, spider shields, dust seal rings, step washers, piston wear plates, pinion shafts, shell bolts and many more.

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



Tema Isenmann introduce the new innovative WS2.10



Tema Isenmann has recently introduced WS2.10 polyurethane wear products for the Quarrying industry.

The WS2.10 patent pending attachment system utilising the highest quality wear resistant polyurethane makes it one of the most innovative products ever developed for the Quarrying industry. WS2.10 offers ease of installation, reduction of maintenance cost and a much safer way of installing and removing wear liners.

Key benefits:

- No bolts or glue
- No welding or cutting
- Easy wear rotation
- No retrofitting steel
- Installed quickly
- Secure

Ideal for feed and discharge trays on screening machines WS2.10 will stay securely in place on vibrating screens and chutes and can be adapted to suit the specific application.

Economically beneficial WS2.10 is corrosion resistant and promotes long wear life with increased service intervals.

Typical applications include screen tube covers, frame protectors, chute linings, silos, hoppers and impact areas.

Tema Isenmann are based in Woodford Halse, Northamptonshire and supply a full range of screen systems including woven wire, harp sieves, rubber and polyurethane in tensioned and modular formats.



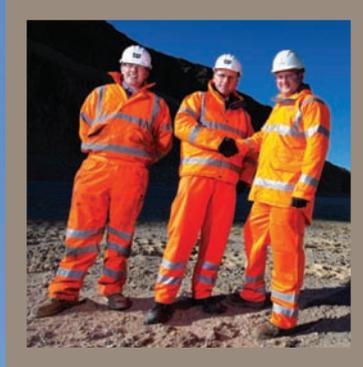
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Hope Construction Materials and Finning form strategic alliance with multi-million pound fleet deal

Britain's leading independent construction materials supplier, Hope Construction Materials has invested in a new fleet of quarry machines in partnership with Finning. Finning has provided a range of new technology, which will enable Hope to manage this new fleet to achieve maximum productivity, flexibility and fuel efficiency. The deal will see Hope making an entrepreneurial move by taking the operation of its new fleet of 21 Cat® machines in-house, supported by a bespoke fleet management package from Finning. The machines will be used at a range of Hope's aggregates and cement sites across Derbyshire, South Yorkshire, Manchester and Bedfordshire.

With a focus on fuel efficiency, the new fleet boasts the UK's first Cat 988K wheel loader, which will be joined by two Cat 966K XE's and eight Cat 775G off highway trucks. By combining these highly fuel efficient machines with training, telemetry and unrivalled service support from Finning, Hope Construction Materials aims to show the industry the benefits of taking an innovative in-house approach to fleet management. With a goal of achieving a significant reduction in cost per tonne, the new approach is a complete change, set to give Hope a real advantage and profile for its 'different' approach.

As part of the multi-million pound fleet management package, Finning will provide a full turnkey support package to Hope Construction Materials. This will include onsite Eco-Drive™ operator training for Hope operators and site managers, equipment monitoring from its Finsight condition monitoring team and the use of the Vital Information Monitoring System (VIMS) data through Caterpillar's MineStar system. All of these solutions will combine to help optimise production. The overriding fleet management package will cover every unit in the new fleet, which also includes two Cat 390D LME excavators, two 740B ADT's, two 980K wheel loaders, a D6T LGP dozer, a 962K high lift wheel loader, a TH407C and a TH414C telehandler.



Commenting on the deal, Simon Philips, Managing Director, Concrete, Aggregates and Asphalt Division, Hope Construction Materials, said: "As Britain's leading independent supplier of cement, concrete, aggregates and asphalt, we made a conscious decision when we were formed in January 2013 to continually review the key elements of our operations.



"With our aim to become a reliable and responsible business, when it came to our mobile fleet strategy, we saw there was a clear opportunity to have a greater control and understanding of this key function. Following detailed analysis, we decided to bring the operation of our mobile fleet completely in-house. We wanted to take a new approach to fleet modelling that would allow us to optimise site by site, but also have the in-built flexibility to move equipment across our entire operations.

"So when we went out to the market, we were not just looking for the best purchase price of a machine, we wanted to work with a supplier that was much more aligned with our entrepreneurial approach to doing business.

"I was delighted with the Finning proposal; they demonstrated great knowledge of our quarry operations and worked with us to identify a complete fleet management package, integrating with our team and sharing knowledge. With access to the extensive Caterpillar range and finance from Cat Financial, Finning was not only able to match machine to machine; its team was also able to optimise the whole production and investment cycles.

"As we all know the whole life cost of plant and equipment is so critical, and when we assessed this with Finning, we looked at everything from haul roads, tyre wear and fuel usage to utilisation and availability of the mobile plant supplied by Finning, and the matching of this to ensure we utilise our fixed processing plant. The Finning team also showed us how we could use services such as its Finsight condition monitoring team, to increase uptime and equipment performance.

"As a business, wherever possible we look to support our people and help them do their job better. So when Finning introduced us to Eco-Drive, we saw a clear opportunity to combine operator training with an enhanced fleet, to get the most out of our investment. Throughout the tender process, we felt we could place our trust in Finning to work with us and develop what will be the most fuel efficient fleet and operator team in the UK, backed by a solid support package."

Now in operation at Hope sites in Bedfordshire, South Yorkshire and Derbyshire (including Dowlow Quarry near Buxton), the new fleet is being constantly monitored by the Finsight engineering team in Cannock.

Commenting on the Hope Construction Materials' new fleet and services from Finning, Dean Turner, Finning Customer Account Manager said: "Since Hope Construction Materials was formed, we have worked closely with the business, fulfilling its requirements for the site, using our customer support fleet to ensure a smooth transition to the new equipment. Our UK branch network and in particular our Chesterfield branch, which is very close to Hope Works and Quarry and Dowlow Quarry, has been key to supplying operational support to the business.

"Over a short period of time we have built strong working relationships across the whole business, understanding how it is looking to develop, its values and goals for the future. This led to us being invited to tender for the fleet deal. Throughout the tender process, we consulted with each site and the management team, to identify how we could add value and flexibility to the deal, bringing in colleagues from Caterpillar and Cat Financial."

Financed by Cat Financial, the new deal gives Hope the fleet flexibility it needs, with equipment selection taking into account the potential required to move units from one site to the next, to meet production needs.

Talking about the Caterpillar and Finning solutions, John Vardy, Finning General Manager Mining said: "As Hope has seen, Finning and Caterpillar can combine our UK and global expertise to help customers optimise performance. In practical terms, what this actually means is that in addition to simply offering a managed fleet maintenance solution, including the supply of equipment, parts and service, we take a consultative, training led approach.

"For example, with Hope, our team has developed a site and equipment specific version of our Institute of Quarrying accredited Eco-Drive training programme, to help both operators and managers get the most out of the equipment in its working environment. This is coupled with detailed site surveys that include haul road impact profiling and general on-going improvement programmes, backed up by equipment data analysis. Put together, this approach is used to continually optimise performance, helping Hope to benefit from its new investment now and into the future."



Eriez helps Sibelco producing high quality ball clay

Eriez Magnetics Europe Ltd, based in Caerphilly, South Wales and a world authority in separation technologies to the quarry and mines, recycling, metalworking and all processing industries, announces the installation of an overband permanent magnet and metal detection equipment for double protection against ferrous material at Sibelco Europe's ball clay quarry in East Gold Works, Newton Abbot, Devon, UK.

Sibelco is a leading provider of advanced industrial minerals to the world's ceramics, glass, foundry, construction and sports surface industries. Pete Harris, Project Manager at Sibelco's East Gold Works explains: "We opened a new process line at the quarry last June to process quality ball clays or plastic clay. This is a rare mineral and an important component in a wide range of ceramics goods, essential to everyday life, making product purity and continuous production output paramount. As a result, we needed to ensure that all ferrous material is removed during the process."

To support these objectives, Eriez Europe installed on the first conveyor system a TP 25/100 manual clean permanent overband magnet from its range of suspended magnets. This model was chosen for its strong twin pole magnetic field, the required suspension height and the depth of the burden. Before the crusher, a metal detector combining the Metalarm® MA3600 control unit and the Eriez Eagle® coil for higher sensitivity was installed to provide serious protection to the machinery. After further processing of the ball clay, a second metal detection system was fitted around a second conveyor in the final processing stages ensuring a metal-free product.

"The equipment was delivered as per our requirement" comments Harris. "We've also been delighted with the customer service received from Eriez as we experienced a minor issue with low ambient temperature affecting the sensitivity of the metal detector; however Eriez was there to rectify the situation supplying heater and thermostat. We're now running an efficient production line delivering quality ball clay every time."



The project coordinator at Eriez, Tony Helmich, Sales Manager - UK, comments "We're delighted to support Sibelco's decision to install the double protection of magnetic separator and metal detection. Indeed, by stopping metal going into the process, it eliminates or reduces the wear on the machines and more importantly the downtime and expensive replacement parts."



Blue Group Launches New Spares Division

The new Spares Division gives Blue Group the opportunity to offer full market coverage on a Global level.

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Tyre Protection in the Limelight

Headquartered in Goslar, Fels-Werke GmbH, is one of Germany's leading quarrying companies and ranks second in the supply of limestone products..

In Germany, Fels owns several quarries, operates eight lime production plants and one dolomitic lime plant. In the Czech Republic, Fels has a quarry and a lime production plant and, with the 2009 commissioning of a lime production plant South of Moscow, Fels has established a foothold in the Russian Federation.

Fels claims a combined crushing capacity of just under 3 million tonnes and, with a total of 46 kilns, the company's output is more than 0.3 m tpa of hydrated lime and over 2 mtpa of high-quality quicklime.

In all, Fels employs some 1000 people, produces over 5 m tonnes of limestone products and generates revenues of around EUR 250m pa.

Fels the company that led the establishment of the internationally acknowledged DIN EN ISO 9001 standard to the German lime industry, uses special processes that ensure that its products conform to the highest standards of purity and reactivity.

Fels' success is built on quality - quality resources treated by quality processes to manufacture quality products.

FELS' sources their raw materials from wholly-owned Devonian, Dolomitic and Muschelkalk deposits identified for their purity and homogeneity.

Fels' skilled technicians exercising rigorous quality control and advanced crushing, pulverising and calcining processes create a comprehensive range of primary products including; aggregates, un-burnt coarse, medium, fine and pulverised limestone; lump, fine ground and hydrated, high-calcium lime, quick-limes, milk of lime and lime putty and special limes in the form of fine ground lime and hydrated lime mixtures,

Fels' limestone products are required in all facets of modern life.

In agriculture, soil fertility and crop growth is improved with lime dusting while, in forestry, lime dressing counters the effects of acid rain. In sugar manufacture Fels' 'sugarstone' is essential for separating the liquor from beet pulp and cane trash.

Fels Lime helps protect the environment by removing exhaust gases, neutralising effluent, purifying water and rehabilitating contaminated sites.

When it comes to construction, mankind has relied on limestone since we first sheltered in caves.

Building materials such as bricks and blocks, mortar, cement and concrete are all derived from limestone. Our infrastructure - road, rail, earthworks, soil stabilisation - rests on limestone aggregates, asphalts and bitumen.

As key ingredients, Fels' lime products are required to introduce various levels of calcium and alkalinity into chemical and metallurgical processes, as ingredients in ceramics, the manufacture of clear glass, wood-pulp, metallurgy and, in the form of lump lime, as a purifying flux in steel making.

With plans to quarry 6,000,000 tonnes in 2013, as part of this year's plant optimisation programme, Fels is adding two CAT 990s and a CAT 992 to its load and haul fleet.

One CAT 990 is destined for work in Saal an der Donau.

The Saal plant benefits from access to a major deposit of high-purity Muschelkalk. Operating 9 kilns employing efficient processing and calcining technologies, Saal produces a comprehensive range of lime products in grades that meet a broad spectrum of industrial applications.

Situated North of Munich on the A3 near Regensburg, the Saal plant is well-served by road and rail connections and the nearby port of Kelheim/ Saal provides easy access to the Main-Danube Canal.

The second CAT 990 will be working at Kalkwerk Kaltes Tal - a two quarry operation situated on the B6 South of Braunschweig and close to the Broken Mountain on the Eastern edge of the Harz National Park where some 1.5 mt of pure Devonian limestone is processed annually.

Seven kilns including three annular shaft kilns and two counter-flow/ parallel flow regenerative (PFR) kilns produce about 500,000 tpa of highly-reactive quicklime.

The CAT 992 will work in the Rübeland/ Hornberg complex.

Also located off the B6 South of Braunschweig on the Eastern edge of the Harz National Park and quarrying the same Devonian deposit, this operation combines ten state-of-the-art PFR kilns enabling Fels to produce 600,000 tpa of multiple grades of high-quality lime products for use in a large number of processes.

CAT Loaders are considered to be among the best in their class.

Teamed with a train of CAT 772 50 tonne haulers, powered by a 627 hp, Cat® C27 ACERT® engine and equipped with a standard 8.4 - 9.2 m3 bucket, a CAT 990 can hoist a full truck load in 4 easy, 15 tonnes loads or, in high lift configuration, replenish a 90 tonne truck in six passes.

CAT first introduced the 992 in 1968. The K series is ideally matched with CAT's 777 series G dump trucks or their equivalent. Powered by an 814 hp, Cat® C32 ACERT™ engine and available with a 10.7-12.3 m3 bucket the 992 can deliver a 100 ton payload in just four 24 tonnes cycles.

Laid down some 350 m years ago, Devonian is an extremely abrasive material that can rapidly destroy the tread of bare tyres and, at the working face, there is an ever-present risk of sidewall damage and blow-outs as the loader crowds into the newly-blasted rock fragments.





Large earthmover tyres are in short supply and costly to buy so it is practical for Fels to take measures to obtain maximum value from their investment by ensuring their tyres last as long as possible.

For optimum efficiency and economy, the front tyres of the three CATs will be fitted with ERLAU R71 Spezial tyre protection chains (TPC) - a closed mesh, case-hardened, ring-ring chain that absorbs abrasion and protects against sidewall damage. The less vulnerable rear tyres will be protected from abrasion by pairs of the lighter ERLAU R71 TPCs.

(CAT 990s take 41-25-70 tyres and CAT 992s are shod with 45-65-45 tyres.)

With the all-round protection of ERLAU's R71 TPCs loaders of all sizes can go fearlessly into the most extreme mining conditions. In fact, the protection is so effective that loaders fitted with Erlau TPCs run safely on flaming hot steel slag without danger to operators or assets.

Erlau TPCs can not only extend tyre life by as much as 10 times but, by reducing maintenance downtime and increasing loader availability, can greatly improve productivity and dramatically reduce the cost per loaded tonne.

ERLAU's TPCs are found in leading mines and quarries across the globe - producing limestone in Europe, copper in Chile, iron ore in Australia and diamonds in Africa where they prove their worth on wheel loaders, dozers, motor-graders and dump trucks.

In Europe, Erlau is proud to be a long-term supplier of tyre protection chains (TPC) to Fels Werke. At Fels' Elbingerode operation three additional loaders - a CAT 988, a CAT 992 and a Komatsu WA800 - are already fully protected with ERLAU xxxx TPCs. A set of 4 chains protect the 29.5-25 tyres of a CAT 980 at Fels Kaltes Tal and, at Saal an der Donau, a pair of Erlau chains is bringing long life to the 45/65 R39 tyres on a CAT 990.

At Fels' Bad Grund quarry two full sets of four Erlau TPCs guarantee all-round protection to a CAT 992 and a CAT 988.

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Making a big impact in the wear lining industry



Tega Industries are one of the best known names in wear protection worldwide. Their customer base reads like a who's who of the world's biggest mineral producers. Following the appointment of ProSpare as sole distributor, Tega products are now available for the first time in UK and Ireland.

Tega are renowned for manufacturing top quality rubber wear liners at highly competitive prices. A wide range of designs and profiles are available in a variety of thicknesses. Tega ceramic liners, incorporating high alumina tiles mounted in an elastic rubber matrix, provide unsurpassed abrasion resistance in the most extreme operating conditions.

The addition of Tega rubber and ceramic to our well established range of Hawiflex polyurethane and Matrox polyethylene linings enhances our ability to offer the most cost effective solution to combat impact, abrasion or noise in chutes, hoppers and bins. See www.prospare.co.uk for more details.

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QMS Expand Range of Aggregate Processing Equipment following £ One Million investment

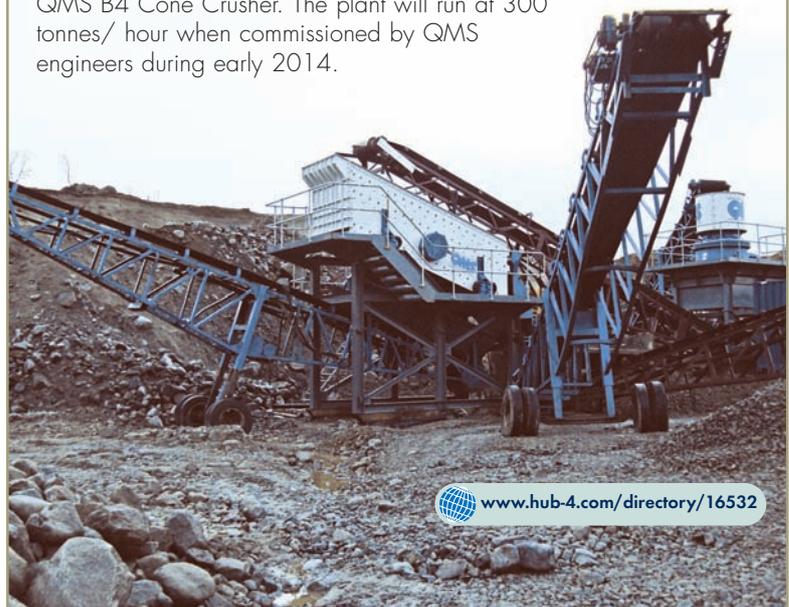
Quarry Manufacturing & Supplies Ltd (QMS) have recently expanded their portfolio of aggregate processing equipment to include a comprehensive range of vibrating screens. The standard range includes both inclined and horizontal screens for new and replacement plants. This will complement QMS's already established range of B-Series crushers. QMS have recently expanded their manufacturing facilities with the addition of a 10,000 square ft fabrication unit, dedicated solely to the production of the aggregate processing equipment. The total investment in the new facility exceeds £ One million.

The new QMS screen is a multi-purpose, heavy duty screen with the option of 1 to 4 deck configurations. Available in sizes up to 8 metre long x 2.6 metres wide, it incorporates the latest advancements in screen design. Both screens and crushers are 100% manufactured in the UK by QMS. The screen box is designed for a wide variety of screen media including woven wire, polyurethane, rubber and plate depending on a customer's preference. Once installed, simple on site changeover between the different media is possible, making it suitable for a range of applications. All types of screen media are available from QMS.

QMS Screens are capable of handling a large range of materials with feed sizes up to 100mm and output potentials of 750 tonnes/ hour. QMS have ensured that reliability and ease of maintenance have been incorporated into the design to give a longer service life and low operating costs.

QMS also offer bespoke replacement screens for existing plants. The in house design and manufacturing facilities ensure that replacement screens can be manufactured with very short lead times. All screens can be installed and maintained by QMS's experienced service engineers. QMS also manufacture the support structures to suit customer requirements.

QMS have just manufactured and completed delivery of a new crushing and screening plant. Supplied to a prestigious Scandinavian customer, the plant incorporates a QMS 3 Deck Screen with a new QMS B4 Cone Crusher. The plant will run at 300 tonnes/ hour when commissioned by QMS engineers during early 2014.



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remote monitoring**

**Glen Creston - 'Leaders in Size
Reduction' have improved the design
and function of their Roller Crusher.**

It can be supplied with a new control box with PLC which allows remote monitoring and control of the crusher in process applications.

The largest single shaft unit is now 800mm long by 500mm wide internally and designed for crushing lump coal up to 250mm. High temperature versions are available for crushing power station ash at up to 250 degrees centigrade

This rugged, slow-running mill is equipped with either a single or double roller shafts fitted with crushing cams which rotate between crushing and stripping combs. Different shaped crushing elements are available depending on material.

This machine is particularly suitable for de-agglomeration of materials from sacks or silos, pre-crushing softer minerals and for granulating coarse lumpy, caked or compacted materials.



Features include:

- Robust construction
- Minimal maintenance
- Compact design allows retro-fitting into existing process lines.
- Parts easily removed for maintenance/repair

Suitable for:

- Pigments and Resin
- Food and Pharmaceutical
- Coal
- Waste materials and Ash
- Minerals

OPERATING PRINCIPLE /CONSTRUCTION

The wear resistant steel crushing cams are mounted on the roller shaft in staggered positions, accurately spaced so that they pass between the crushing and stripping combs which are mounted laterally on opposite sides of the inner housing.

The roller Crusher Mill is only one machine from our range of laboratory and pilot scale/light industrial equipment.

From our Jaw crusher, for primary sample breakage prior to further processing, to the McCrone Mill, which will grind to analytical fineness, these machines can cope with a wide range of materials from rocks to edible grains

For preparation of larger laboratory samples or for light industrial applications, Glen Creston offers a range of machines that can cope with higher throughputs whilst still producing reasonable particle sizes.

Glen Creston also manufactures special machines for sample processing production needs. These machines are designed for processing anything from small samples to larger scale continuous flows for industrial applications.

For more information on Glen Creston products please contact enquiries@glencreston.com

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The WS2.10 patent pending attachment system utilising the highest quality wear resistant polyurethane makes it one of the most innovative products ever developed for the Quarrying industry. WS2.10 offers ease of installation, reduction of maintenance cost and a much safer way of installing and removing wear liners.



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Crusher safety: guard against mechanical hazards



Crushing and screening machines are becoming commonplace as an integral part of the aggregate processing plant but if not operated correctly and in line with important safety procedures, they can cause a serious incident or injury.

Quarries have always been high-risk environments but with processing operations continuing to involve more of this kind of mobile equipment - alongside an increasing number of contractors - ensuring worker safety is more important than ever. All those working in and around quarries must be equipped with the relevant skills and knowledge to make sure that they, and their colleagues, are working safely and stay aware of potential dangers.

Thankfully, the injury statistics for quarry workers have shown a gradual decline since 2006/7 but with a target of Zero Harm, the industry still has some way to go to reach its goal. With this in mind, Mentor would like to reiterate some important safety guidance issued by the Quarries National Joint Advisory Committee (QNJAC), regarding the use of chamber guards, predominantly on jaw crushers.

- Ensure that all guards meet BS EN 953:1997. This specifies the requirements for the design and construction of both fixed and removable machine guards; guards meeting these standards will be able to fulfil their two purposes - to prevent the operative from falling into the chamber and to reduce the amount of stone ejection.
- A safe system of work must be established and shared with all those who may be required to operate or carry out maintenance on the machine. Chamber guards are usually manufactured and supplied as standard and are not operator friendly to remove. If they must be removed to clear a blockage, take care when doing so and always remember to replace them afterwards. Do not operate the crusher without the relevant guards in place or with them in the raised position.
- To limit manual handling issues, larger guards are sometimes fabricated with ram opening operations. These types of guards eliminate the need for operatives to remove guards and enter 'danger areas', instead using hydraulic arms to clear any blockages. Those without these types of guards should have their own risk assessment and safe system of work in place for controlling the risk from rock ejection.

To download the full QNJAC guidance document visit <http://www.safequarry.com/qnjac.aspx>

Guarding is just one of many risks to those working on or around crushing machines. The HSE offer useful guidance on key hazards such as clearing and preventing blocked or stalled crushers, slips and trips as a result of spillage and coming in to contact with excavators loading the crusher. To access the HSE guidance visit <http://www.hse.gov.uk/quarries/crushing.htm>

Grange Quarry continues to show its commitment to Kleemann MR 122 Z impact crusher - ideal for concrete production

With an MOBIREX MR 122 Z impact crusher from Kleemann, the Scottish quarry operator, Grange Quarry Limited, recently strengthened their fleet of machines. Founded in 2000, Grange Quarry Ltd is now one of the largest manufacturers of high-quality aggregates and ready-mixed concrete in the south of Scotland and the north of England.

For Grange Quarry, the MOBIREX MR 122 Z impact crusher is not the first plant that they have acquired from Kleemann. "Since 2012, we have been working successfully with a mobile MOBICAT MC 110 Z jaw crusher and we are really impressed with the quality of the crushed end product," explains Stuart Dodd, owner and Managing Director. They use this mobile plant to crush whinstone at Grange Quarry, Lockerbie for road construction with a maximum feed size of 600mm to 125mm at an output of around 200t of crushed material per hour.

Since 2012, Grange Quarry Ltd has also been developing Kelhead Quarry near Annan. At this site, Managing Director Mr Dodd also uses a plant from the same German manufacturer to process the stone: "In the interim, in the quarry, we tried out a similar crusher from one of the leading Scandinavian manufacturers. But it just wasn't right for us. In the end, we replaced it with a new Kleemann plant because we know that their technology is first-class and that it works extremely reliably."

The new MR 122 Z impact crusher has been in use since October 2013 and crushes limestone breccia of 600mm that is produced by the blasting to a final grain of 60mm.



With an output of around 220 tonnes per hour, Grange Quarry is extremely satisfied with the product. The crushed stone is mainly used as concrete aggregate and to produce a high quality crushed rock sand.

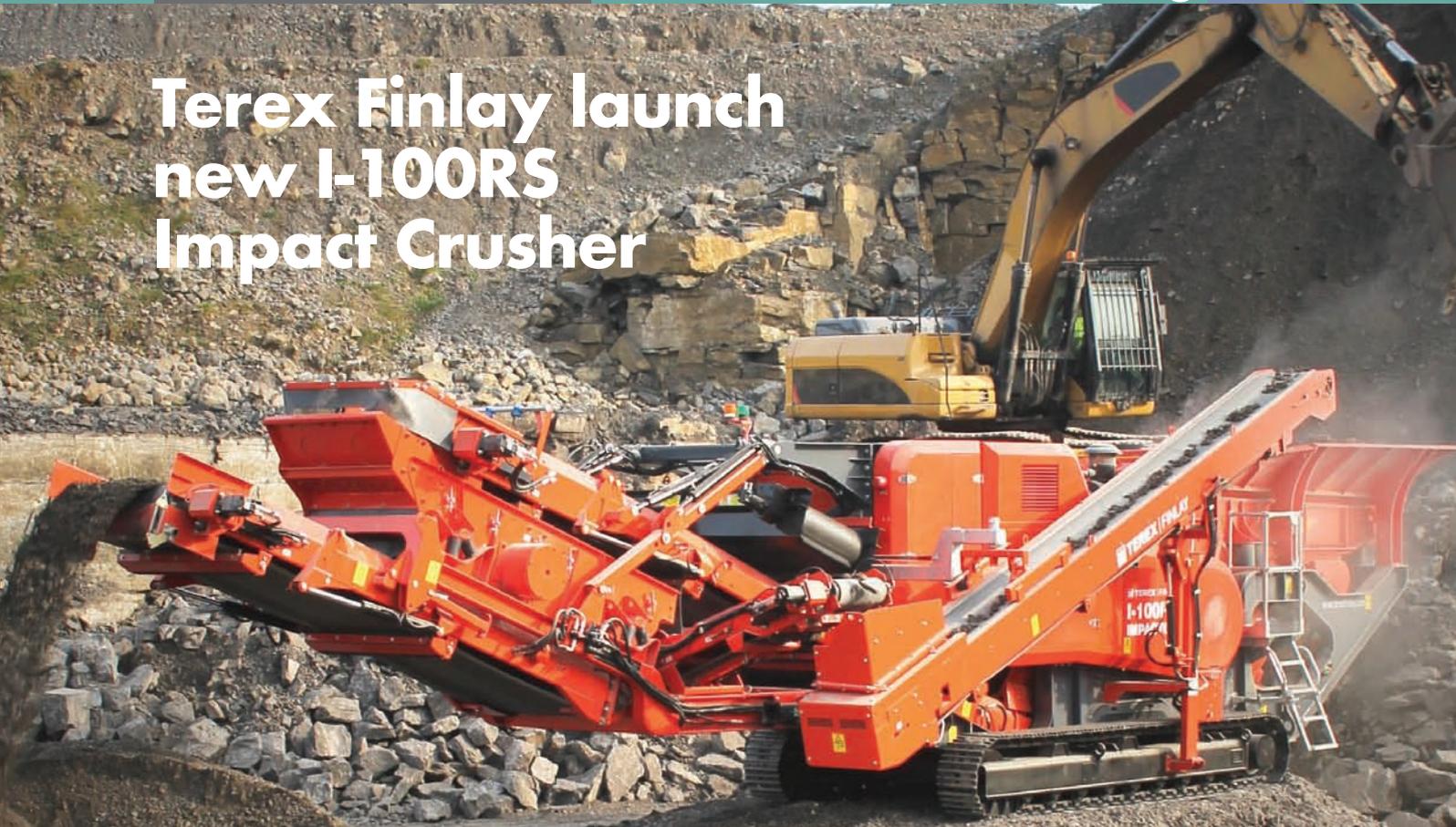
The crusher with its 250kW electric drive, which is supplied by a 364kW diesel engine, crushes heavily reinforced concrete just as easily as limestone blocks. This means that the classic MR 122 Z crushing plant is also ideal for concrete recycling. Another advantage is that the standard vibrating discharge chute under the crusher reduces wear on the crusher discharge conveyor and thus significantly increases the operational safety of the plant. This high level of reliability was one of the decisive factors in Stuart Dodd again investing in a plant from Kleemann. But he is also impressed by the crusher technology and the quality of the granulation: "The crushed stone has an outstanding cubicity," in the opinion of the Managing Director.

In addition, the entirely electrical drives ensure the extremely economical operation of the plant. Experiences in the Kelhead Quarry underline this: "The MR 122 Z consumes around 35 litres of diesel per hour compared to our previous impact crusher of the same size using 60 litres per hour. This means that we can keep costs under control and also do something for the environment."

Last but not least, the maintenance of the plant was also an important point to consider for the quarry operator. This is where the Kleemann plant scores Brownie points. On the one hand, their plants have easily accessible maintenance points and, on the other hand, fast and professional service is provided by the Wirtgen Group. Grange Quarry Ltd's maintenance needs are taken care of by the Wirtgen Limited subsidiary, which has its headquarters in Lincoln, and which is responsible for sales and after-sales service for Kleemann crushers in Great Britain. Rob Coward, who is responsible for Kleemann products at Wirtgen Limited knows that "with us, the team from Grange Quarry Ltd is in the best hands." His customer, Stuart Dodd, confirms this. "There was no need to call the Wirtgen Limited services frequently. But whenever we needed assistance, the service that we have received has been exceptionally fast and good."

For Grange Quarry Ltd, reliable operation, excellent grain quality and simple operation are among the most important advantages of the MR 122 Z impact crusher from Kleemann.

Terex Finlay launch new I-100RS Impact Crusher



The new Terex® Finlay I-100RS direct drive $\varnothing 860\text{mm} \times 860\text{mm}$ ($\varnothing 34'' \times 34''$) horizontal impact crusher with variable speed gives operators unprecedented levels of fuel efficiency and production in both recycling and quarrying applications. The robust and proven Terex chamber gives excellent reduction ratios and high consistency of product shape.



The machine features an on-board $2.44\text{m} \times 1.2\text{m}$ ($8' \times 4'$) single deck screen for sizing and recirculating oversize material back to the crushing chamber. The sizing screen can be quickly detached for applications that do not require resizing or recirculation of materials for further processing. The I-100RS features hydraulic folding of all conveyors providing rapid set-up times and easy point to point moves when operating on multiple sites.

The machine features an advanced electronic control system that monitors and controls the speed of the rotor and regulates the heavy duty vibrating feeder (VGF) with integrated pre-screen to maintain a consistent feed of material into the impact chamber for optimal crushing conditions. Material from the integrated pre-screen can be diverted to a stock pile via the optional by-pass conveyor, or it may join the crushed product on the main belt. The standard hopper capacity of 2.3m^3 (3.01yd^3) places the machine at the forefront in this competitive market sector.

With tracked mobility this machine is capable of working in the most demanding of environments and features a rapid set-up time.

The machine features a heavy duty chassis, with convenient access points and ladders to all service areas.

Startup time for the Terex® Finlay I-100RS is minimal, with the machine ready for crushing in less than 15 minutes. The heavy duty crawler tracks, and optional radio remote control unit, make on site mobility very easy.

A key additional benefit of the machine is the inbuilt hydraulic assist apron adjustment for the impact chamber

Key Features:

- Direct drive $\varnothing 860\text{mm} \times 860\text{mm}$ ($\varnothing 34'' \times 34''$) crusher chamber with unique belt tensioner system allowing for rapid adjustment.
- Hydraulic apron setting assist provides convenient and efficient adjustment of the aprons and hydraulic over-load protection in event that an un-crushable object enters chamber.
- Detachable $2.4\text{m} \times 1.2\text{m}$ ($8' \times 4'$) single deck screen returns oversize material back to the crusher via the on-board recirculating system.
- Quick and easy detachable screen, fines and transfer conveyor for open circuit crushing.



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STRIKER launches the new Etrac crushing range

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

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

Versatility is the key. No two mines are the same. Neither is mine plans, regulations, lifecycles, ore body distribution, topography, commodity prices or budgets. How do you develop a machine that suits such divergent conditions? Answer: You don't. Machines must be adaptable to provide for not only varying conditions but changing conditions. This is where Strikers R & D group has channelled their energy.

Recently, Striker's R & D group have completed development of the Etrac solution. Etrac provides for the lowest operational cost, is the most automated, has the highest plant availability and is the most environmentally friendly in terms of carbon and noise emissions. Etrac can host variants of fully electric, electric/hydraulic or electric diesel power options.

Striker's client, in Western Australia had recently been awarded several large contracts for the supply of aggregates and road base. They were eager to purchase an electric plant the same as, or similar to, the 250 tph diesel hydraulic plant Striker had previously delivered some 12 months prior. The client was clear with their expectations: "We need higher production rates, lower carbon emissions, the best price and we need it all yesterday!" Inevitably, Striker offered the new range of Etrac machines and having answered all of the client's requirements an order quickly followed. ▶





Integration and control of equipment is central to throughput optimisation as Striker Engineering Manager, Michael Colvin, explains. "A key feature of the Striker Etrac range and in fact all Striker plant is the ability to 'plug and play'. This means we can network several crushing and screening units together and they will all communicate with each other to maximise the plant performance. A great feature in improving our client's production and profits"

The design concept of the new Etrac range emulates the pedigree of Striker's track and portable plant developed over the last 15 years. One of the prerequisites from all of our customers is they wanted Striker's new plant to integrate with existing plant on site if required, as well rationalise common parts across all the Striker range of equipment.

In a short period of time Striker has delivered some 20 Etrac crushers and screens to the Australian and Asian markets for use in the recycling, construction and mining industries. "Feedback from not only our clients but also the end users of the processed products has

been extremely positive" says Striker's Neil McKenna, Business Development Manager.

Striker's history of building 'application specific' plants has carried through to the new Etrac range. No matter what the rock type or operating conditions: cold winters in Mongolia; hot and dry in central Australia; or the torrential rains of the highlands PNG, the plants are designed to accommodate extreme working conditions. Some sites endure huge ambient temperature variation from minus 35 degrees to plus 50 degree Celsius. Striker plants have proven themselves again and again to be strong performers.

Striker's Etrac range are suited to all forms of mineral and extractive industry applications and range from 120tph to 400tph aggregate plants through to 1000tph mining plants.

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

GIPO launch the GIPOCONE B4000 GIGA tracked mobile cone crusher

The newly developed GIPOCONE B4000 GIGA tracked mobile cone crusher had its premiere at Bauma 2013 in Munich last year. This is a very efficient machine which incorporates a high capacity variable speed cone crusher and a very large close circuit three deck screening machine for utilisation as a mobile aggregate plant in producing four grades of finished aggregate.

The new type of machine is distinguished by its high flexibility in which the base model cone crusher can have a separate pre-screen unit with either separate side stockpile conveyor or crusher bypass if specified.

It can be expanded with a three-deck post-screening machine, a magnet or other accessories and be run and transported with or without the screening machine. The machine was fully developed and built by GIPO AG within a period of twelve months.

Since it was first used in Germany, the machine has now been successfully put into operation in Switzerland and already has over 1,500 operating hours. The machine is currently used to produce 0/4 crushed sand and 8/45 mm from river gravel.

Main features:

- Multiple defined final product sizes with one processing system
- Continuous motor speed setting of the crusher actuator to optimize the final particle quality shape and throughput
- A great reduction in the total length for transportation if the screen unit is detached
- The most modern technology, sturdy construction, simple servicing
- Swiss quality
- Long life
- Weight reduction of the entire weight being transported
- Maximum efficiency through low transportation costs
- Very maintenance and service-friendly
- Optimal particle type and quality



Available in the UK

GIPO machines are available in the UK, Ireland, Middle East and West Africa from the exclusive dealer - Aggregate, Processing and Recycling Ltd (AGG-PRO) Based in Tamworth their

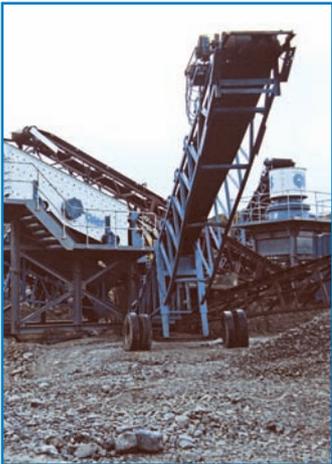
website www.agg-pro.com provides details of the wide range of mobile crushing and screening equipment for various industry applications. AGG-PRO employ all their own, fully trained service staff and have their own 28,000 sq ft workshops in the UK, complete with all the necessary equipment to service, or if necessary manufacture new parts on site.

GIPO AG are located in Seedorf, Switzerland. GIPO has always set the standard in the area of processing systems. The first GIPO machine was developed around 25 years ago; today as a Swiss pioneer in mobile crushing and screening, their engineers make a vital contribution to the ongoing development of components and machine types. One of their latest developments the combination of the crusher and the screen has introduced distinct space, environmental and cost advantages. GIPO plants are being operated extensively throughout the world. They are distinguished by top quality componentry combined with diesel-hydraulic actuation and offer proven longevity. New technical innovations are continually incorporated.



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Banner Contracts' fuel consumption reduced by a third with Lokotrack LT106

The production of dolomitic lime for steelmaking sets high demands on consistency and quality of kiln feed at Thrislington Quarry in northeastern England.

When Banner Contracts Ltd, a crushing contractor based in northeastern England, first put their two brand new Lokotrack LT106 mobile crushing plants into operation in December 2012, they could not believe how little fuel the new investments required.

"Each one of our LT106's consumes 9 liters less fuel per hour than its predecessor LT105. That's a 35 per cent difference", said Jo Banner, Banner Contracts' Company Director.

After 6 months in operation at the Lafarge Tarmac Thrislington quarry, the Lokotrack LT106 mobile plants' fuel consumption averages around 15.5 litres per hour. According to Jo Banner, these figures make them the most fuel-efficient mobile crushers in his company's fleet. And with fuel prices in the UK sky rocketing from 35 pence per litre to 70 pence per litre in just six years, shaving a third off the fuel bill makes a real difference.

"Not only have fuel prices increased, they now vary considerably in a matter of days, meaning that fuel costs are hard to predict", Jo Banner added.

A unique deposit

At Thrislington quarry, home of the two new Lokotrack LT106 mobile crushing plants, all of the processing is carried out by Banner Contracts.

This individual deposit has a specific chemistry, which meets the requirements for supplies to the iron and steel industries.

The quarry produces kiln feed, which the onsite customer Steetley Dolomite supplies for steelmaking after calcination, and lump stone for the blast furnace. In both

cases the product acts as a flux, reducing temperature and removing impurities from the iron ore.

The fines produced during the process are also supplied for iron making as part of the sinter, being blended with various materials such as iron ore and coke.

These products require chemistry consistency within the clients set parameters; low values of silica, sulphur and alumina, with a minimum value of magnesium oxide of 18 per cent.

In addition, the quarry makes several co-products including sub base, capping and aggregates and sand for concrete making.

"The nature of the process lends itself to having multiple smaller plants instead of one large one", Jo Banner explained.

"Lokotrack is good on tracks and easy to move. It only takes around 30 minutes to move the machine, tidy up the spot and start crushing again", he continued.

The flexibility of mobile equipment enables the operators to easily utilize different faces to help maintain the composition of the kiln feed just right. It has also made experimenting and fine-tuning the process quick and easy. Equipment can be regrouped time and again to try out new combinations.

It's not just the machine, it's the relationship

Mobile flexibility was not the only reason behind Jo and his father Mike Banner's decision to invest in the Lokotrack LT106 plants. The standard of access and the guarding features of Lokotrack also played a part in the decision. For Banner Contracts, health and safety are always a crucial consideration.

According to Jo Banner, another important factor was the level of service, support and the personal relationship Metso provides.

"Whenever we had problems during commissioning phase, we just called and a Metso service engineer would come over and take a look."

Banner Contract's satisfaction in the first two LT106 plants was in fact so great that they placed an order for a third one in May 2013. After a successful delivery, it is now in operation at another customer site of the company.



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A crushing bucket offers more flexibility, generates additional revenue and provides a new business stream for Scottish quarry

Mobile crushing equipment has become increasingly popular in recent years, offering a tremendous amount of flexibility. Although static crushing plant still continues to enjoy a key function in the quarrying industry, due to their ability to process high capacities, mobile crushing has distinct advantages.



One option, which gives even more versatility for certain applications, is a crushing bucket. These are hydraulically driven and can be easily attached to an excavator. Crushing buckets are typically perfect for crushing inert materials directly on site, including rock, hardcore, stone, tile, concrete, glass and asphalt. This allows immediate on-site recycling and reuse of waste materials. They are ideal for a range of applications and are predominantly used in the mining, quarrying, construction, demolition, recycling and landscaping industries.



The main advantages of a crushing bucket are:

- It crushes materials directly on site
- Only one bucket is required to demolish, crush, recycle and load materials
- It reduces the use of mechanical pieces of equipment
- It solves the problem of having to dispose of demolition materials offsite
- It cuts down on time, transportation and manpower costs
- It is ideal for small and large worksites
- It allows materials to be recycled, resulting in significant savings
- It offers enhanced operator safety, reduced transport costs and quick installation and changeover
- It is much more versatile than traditional and cumbersome crushing plant
- It can be used to load materials directly to a truck, eliminating the use of another bucket needed with traditional crushers

Worsley Plant, one of the UK's leading providers of materials processing equipment, offer wheel loader and excavator-mounted screening and crushing buckets throughout the UK and all are available for sale or hire.

One of their customers who have recently discovered the merits of a crushing bucket is Ambrisbeg Quarry on the Isle of Bute in Scotland. At the quarry they work with basalt rock and crush 7000 tonnes a year to provide aggregate to local businesses. They already have two large mobile crushers on wheels but were looking for something a bit more flexible.

They approached Worsley Plant who recommended Dig a Crusher MB90.2 Crushing Bucket. It is a useful and must-have piece of equipment for people who work in special locations such as quarries and mines, or at any worksite of a complex nature. The crushing bucket can be used as a complementary tool for primary crushing, and can easily be transported together with the operating excavator. Using the bucket, you can crush materials anywhere, from steep areas to worksites with extremely difficult conditions (marble quarries, gold mines). Crushed materials can be reused on site or loaded/even crushed directly onto trucks so that they can be hauled to other locations or delivered direct to customers.

Ambrisbeg Quarry purchased the Dig A Crusher MB90.2 to work on their 20 and 30 ton excavators. They are now able to crush other rock at the quarry site which was previously unobtainable. It has also allowed them the flexibility to use this instead of the larger machines on smaller jobs. Another key advantage is that they can now crush directly into their trucks, eliminating a loading stage in the crushing process.

The other main advantage for them is that they are now to generate more revenue and expand their business by offering crushing services to other businesses around the island.

Worsley Plant provide unrivalled sales, expertise and aftercare. Demonstrations can be arranged, allowing you to see an attachment in action before you make a decision. To find out more about crushing buckets, visit www.worsleyplant.co.uk or call 01606 83 55 44.



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Introducing Pilot Crushtec International's DoppiaTrac DR400 Double Roll Crusher

The DoppiaTrac DR400 Double Roll Crusher recently unveiled by Pilot Crushtec International provides a perfect example of the age-old adage 'necessity is the mother of invention'.

This locally produced crusher was designed and built by the Jet Park-based crushing and screening specialist in response to a call from a major mining customer supplying <40mm coal to national power utility Eskom.

Technical sales manager Rudolf van Rooyen explains the background to the creation of the crusher, which has delivered a major step change in the quality and quantity of output for Eskom suppliers.

"Our customer was looking for an alternative to the traditional static impact crushers widely used in the industry. In-depth discussions held at its premises and at the factory with our design team highlighted a number of challenges but also uncovered some potential opportunities," he says.

Increased output was very much on the agenda together with eliminating unacceptable levels of fines material produced by conventional equipment.



Another area of concern was excessive downtime as a result of crushers jamming which could lose as much as two hours of production time in a single shift - usually the result of poor loading practices.

The need for mobility was also highlighted. A tracked crusher that can be easily trammed to different locations on a mine or in a stockyard is a far more attractive proposition in comparison to an immobile semi permanent static plant.

It was from these collaborative discussions that the DoppiaTrac DR400 Double Roll Crusher was conceived, the first track mounted product of its type to be produced in South Africa.

After a few months in operation it looks as if Pilot Crushtec International's design team has ticked all the right boxes in terms of specification and performance.

"Our customer's DoppiaTrac DR400 is producing 200mm lump coal down to Eskom grade <40mm in one pass at a rate of 400 tonnes per hour, with minimal fines. Not only has the hourly rate significantly improved but downtime has drastically cut back thanks to the crusher's onboard load sensing hydraulic system and dual directional crusher rolls," says van Rooyen.

He adds that the DoppiaTrac DR400 is not only highly productive but that the tracked crusher is also exceptionally mobile and can be moved to different locations with a single operator thanks to its wireless or cable connected remote control system.

Pilot Crushtec International CEO Sandro Scherf describes how the company's design team works closely with its customers on product design and development throughout a product's life cycle, literally from conception to maturity.

"We engage with our customers before designing a machine and continue this engagement through the prototype stages and well after the product has been launched. This dialogue continues throughout the product's life and often results in the introduction of specification upgrades or even completely new products," he says.

An excellent example of this type of collaboration relates to the company's TwisterTrac AC210 crusher. Thanks to input from customers, this already successful machine evolved into the more powerful TwisterTrac VS350 and eventually the diesel electric powered TwisterTrac VS350E which is easier to maintain and offers a 30% saving in fuel consumption.

"Our commitment to developing an ever-improving range of products can be underscored by the fact that our engineering team boasts a staff of 10 and has a significant budget at its disposal," comments Scherf.

The proven performance of the DoppiaTracs currently on site is attracting a considerable level of interest from the local mining industry and a number of serious export enquiries have already been received.

Technical features at a glance:

The DoppiaTrac DR400 is the first track mounted double roll crusher to be produced in South Africa and Pilot Crushtec International's Jet Park facility provides a strategic base with which to service the Mpumalanga coal fields.

It can provide <40mm material in a single pass at up to 400 tonnes per hour.

The crusher rolls are dual directional to facilitate the easy clearance of blockages. In addition, the machine features a spring back drum mechanism to allow non crushable foreign objects easy passage through the crusher.

The DoppiaTrac DR400 is fitted with a load sensing hydraulic system which automatically regulates the feed rate according to the available engine power resulting in maximum machine productivity. The advantage of this is that the feed rate of the machine doesn't have to be set manually by an operator.

The electrics on the machine are kept to a minimum and the system is designed to be as simple as possible. The system consists of 24V DC switches and relays, there are no PLC's, and apart from the electronic engine control system, no other electronics are fitted to the machine. This means that maintenance, fault finding and repairs on the electrical system can be done by an average diesel mechanic with some 24V diesel electrical experience.

Power is provided by a Caterpillar C7, delivering 186 kW @ 2,200 RPM.

Safety features include a Failsafe emergency stop circuit.

Machine weight - 24,000 kgs



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Cat Pumps enables battery breaker to increase operating capacity

The breaking up of the batteries and the recovery processes is a particularly hazardous and challenging operation that involves crushing the complete battery and then separating out all the individual metals, plastics and chemicals. At the largest battery breaking and recycling plant in the UK, HJ Enthoven & Sons recycles over 100,000 tonnes per year of industrial and automotive lead-acid batteries and is one of the most environmentally responsible and efficient plants for lead recycling in the world. Given the toxic nature of the batteries, the Company is very much aware of its environmental responsibilities and has invested considerable resources into ensuring that the local environment is not affected by its operations.

The two-stage process involves crushing the batteries into small parts in a high speed hammer mill followed by passing crushed parts through primary and secondary rotating filter screens to separate acid, plastic and metallic fractions. In order to optimise the overall separation process and removal of the lead sulphate sludges for recovery the internal surfaces of the screens require continuous cleaning with internal sprays. However, the external surfaces of the screens can become blocked and regular cleaning is required. Without effective high pressure washing of the screens' external surfaces, Enthoven cannot achieve the required levels of material separation required to successfully operate the battery breaking aspect of its business. In 2008, the company installed a purpose-built Cat Pumps high pressure pump unit for the screen washers to replace the existing Haben pumps which were unreliable and both difficult and expensive to repair. Such has been the success of this pump unit that with continued growth at the plant, Enthoven are working with Cat Pumps to increase the capacity of the unit.

Cat Pumps' 'ready to use' skid based package consists of three individual high pressure 6811K Series triplex plunger pumps, two duty and one standby, complete with motors, control panel, header tank and pulsation dampers. The pump unit feeds a



Cat Pumps' 'ready to use' skid based package consists of three individual high pressure 6811K Series pumps.

single pipeline into the spray heads which wash various screens which previously were prone to blinding. The 6811K Series pumps feature 316 SSL block-style manifolds for strength and corrosion resistance and ceramic plungers which maximise seal life. To satisfy the demanding environment in which they operate the pumps are equipped with cast iron crankcases as well as incorporating special ported inlet manifolds which permit an external liquid flush.

Capable of providing pressures up to 4000psi, and giving a flow rate of 2.6m³/hr, the pumps operate 24 hours a day pumping water from flooded mineshafts and contain dissolved carbonates. Each of the pumps has been estimated to have run for a total of approximately 20,000 hours since installation and in that time Enthoven have bought 42 valve kits and 19 seal kits, averaging one service per year per pump this being equivalent to 3,000 hours between services. At the time of its installation the pump package had the effect of doubling the output flow of the existing facility, enhancing the effectiveness of the process and also vastly increasing pump reliability and eliminating down-time.

Commenting on the Cat Pumps unit, Enthoven Maintenance Co-ordinator Alan Brownlees said: "This project has been a resounding success and our service team say that these pumps are brilliant. Our business is growing so we are using the pumps for longer periods. We know that sometimes they pump contaminated water which damages the seals and valves, but we find the pumps easy to work on."

"Enthoven are now looking at ways to keep the plant running even when one pump is out of commission," reports Brian Hubbard, Cat Pumps General Manager. The options under consideration are either VFD drives so they can speed up 2 pumps by 50% to cover for the third pump, or buy and install a fourth pump from us. Whilst the pump package has met the performance requirements in terms of pressure and flow, HJ Enthoven has been able to reduce substantially the costs incurred in pump maintenance, spare parts and downtime. In addition, the three pump set-up has been far more efficient to run in terms of energy consumed."

Booth Ventures: a leading waste management company

As a reputable company, with an emphasis on best practice, and every service being professionally delivered, as well as being fully compliant with government and regulatory agency standards, Bolton based Booth Ventures is fast developing a reputation as one of the North West's premier waste management companies. This fact was recognised in 2012 when the company won an award at the British Ceramic Confederation's annual awards, and now through its four operating divisions, and a reliance on Sandvik mobile screening and crushing equipment, the company looks to the future delivering a total solutions package for their growing customer base.

Matthew Booth, the Managing Director of Booth Ventures, makes no secret to the success of his company: "We place an emphasis on efficiency, and we take pride in providing a professional, cost-effective service from start to finish." This service ensures that customers enjoy expert guidance on how to dispose of many different types of waste, being advised on the relevant procedures, which also includes the provision of chemical testing. As Matthew continues - "Staff on site have been trained to recognise the importance of a quick response to customer enquiries; for example, our review of chemical data prior to acceptance is usually completed within 24 hours - and often the same day - as the initial enquiry."

This endemic professionalism and competence has seen Booth Ventures develop a hard earned reputation as a highly reputable company, with a growing reputation recognised by the regulatory authorities. Furthermore, Booth Ventures business now operates as four separate divisions: Waste Disposal, Site Regeneration, Aggregate Sales, and Consultancy. Each plays an important part to the business, but when combined offers a synergy of operation that provides enhanced benefit to customers, locality and environment.

Site Regeneration

The full site regeneration service is derived from the capabilities, and resources, Booth Ventures possesses, thereby allowing the company to undertake a wide range of remediation projects. These range from the clean-up of contaminated land, landfill restoration, golf course reprofiling, land-raising and reprofiling for construction. Typically these are carried out under Environmental Permits. The company also undertakes work to assist their customers in a wide variety of asset management roles, which can range from machinery decommissioning and demolition projects, to site clearances and infrastructure maintenance. Additionally, and depending upon site-specific circumstances, Booth Ventures also acquires contaminated land or sites with previous, or existing, industrial uses prior to remediation.

Highlighting the success the company enjoys in the latter area of the business is the fact that the company was nominated for the Contractor's Award by one of its major customers, Wienerberger, the world's largest brick manufacturer, at the British Ceramic Confederation's Pledge 2012 conference held in Stoke-on-Trent. Matthew Booth said of the award: "This is the first time we have won a British Ceramic Confederation award, and I think it's testament to the work we do to ensure our operations are conducted with health and safety as a paramount consideration."

Waste disposal

Directly associated with its site remediation business Booth Ventures operates five sites, including a successful waste treatment, recovery and disposal business. All operations are run from Harwood Quarry in Bolton, which is also permitted to accept both inert and non-hazardous wastes for disposal. The site covers more than 50 acres and is conveniently located just 3 miles out of Bolton, within easy reach of the M60, M61 and M66 motorways. The facility is engineered and operated to the highest standards, being utilised by a wide range of companies from house builders to remediation businesses, and haulage 'muck shift' operators. Additionally Harwood Quarry extracts blue shale, but also stocks a variety of virgin and recycled products ranging from pipe beddings, 6F2, bulk fill and rockery / walling stone. Fine screened ash is also available from the site for use in agricultural applications and in block making.

Aggregate Sales

An increasingly important side of the business for Booth Ventures is the supply of a range of both virgin and recycled aggregates to businesses and the public. These range from top shale stone ranging from 0-50mm, as well as 6F1 stone, 6F2 stone and brick shale; whilst recycled aggregates cover a broad spectrum ranging from 0-10mm, 0-40mm recycled and 6F2 recycled. In addition various other aggregates are available including a 0-4mm clean brick product, bulk fill material, rough walling stone, fine screened ash, and top soil amongst others. All of these products are usually available to backload either from Harwood or Mouselow Quarry (which is located in Glossop) or by arrangement can be delivered throughout the northwest, with many products having proved particularly suitable for engineering and site remediation purposes.

However, in order to process, size and supply the materials a crushing and screening solution was required; the solution had not only to be mobile on site, but also easily transportable from site to site. After an intensive search and evaluation, Booth Ventures settled on a S5 screener (now a QA340) and QJ341 jaw crusher supplied by Sandvik Construction. "Equipment flexibility is essential for our business, so the screens and crusher's ability to function equally effectively at a recycling centre, or a quarry, is vitally important to us." States Matthew Booth who continues: "What stood out about the QJ341 is not only is the crusher highly productive, but it is so flexible that one minute we can use it to crush virgin rock, and the next demolition rubble which is full of rebar, bricks as well as reusable concrete." The QJ341 is used in conjunction with the S5, a three way split screener which uses Sandvik's patented double screen box technology to deliver highly accurately sized materials at truly exceptional rates of throughput. Furthermore, and continuing the relationship with Sandvik Construction, Booth Ventures have recently acquired two QE341 scalpers / screens.

The new Sandvik Construction QE341 recently purchased by Booth Ventures combines over 10 years of experience and customer feedback in the mobile scalper market, with well over 100 years' experience in moving materials in the mining industry. Thus the QE341 represents a major development of the market leading QE340, offering users a more refined unit, that is more robust and increased throughput. Furthermore the QE341 has been developed with easier setup, operation and maintenance in mind, as well as featuring a robust crusher-style chassis that has been designed to be compatible for 2-way or 3-way split configurations, along with reversible side conveyors, thereby demonstrating the ultimate flexibility of the unit.



One of the major upgrades to the QE341 is the new electrical control system which incorporates a number of features to improve both the operational effectiveness, and safety of the machine. The simple easy to use system has colour-coded numerical push buttons, and a visual display unit, allowing the operator to fully monitor the process. Prestart warnings on all plant functions, and an auto start / stop facility, are included together with a three mode selector function; set-up, operation and tracking facility, all ensuring that safety, as well as ease of operation, are paramount at all times. These new features, which proved to be particularly attractive to Booth Ventures, are aimed at ensuring the QE341 is now as user and environmentally focused as it is productive, efficient as well as versatile.

Consultancy

The final part of the Booth Ventures service portfolio is the provision of a waste management consultancy service. This highly valued aspect of the business is based on the in-depth knowledge and experience that has been accrued over many years working in the industry. Thus, the company now works in partnership with clients on a wide range of waste management procedures and issues which include: testing and characterisation site investigation; waste management and commercial processes. These broad headings cover such essential activities as chemical testing for disposal of waste by landfill, compliance testing, geotechnical testing of aggregates, risk / environmental assessments, site investigation, feasibility studies, liability assessments and so on. In fact, anything any company would require, or need, assistance with when dealing with waste or contaminated land.

Total solutions package

Booth Ventures is one of the new breed of waste management company that does not limit itself to specific elements of the industry. Through being able to draw on its experiences, facilities, expertise, and now industry leading equipment, the company is able to provide customers with a total solutions package catering for virtually any requirement. The Sandvik crushing and screening plant are playing their part dealing with whatever is thrown at them, and vitally, turning what has traditionally been seen as throw-away materials into valuable products for reuse and resale, thus fitting the operating ethos of Booth Ventures perfectly.

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West Midlands based Weir Waste Services Ltd commission Kiverco to design, manufacture and install one of the largest automated Commercial and Industrial waste recovery facilities in the UK

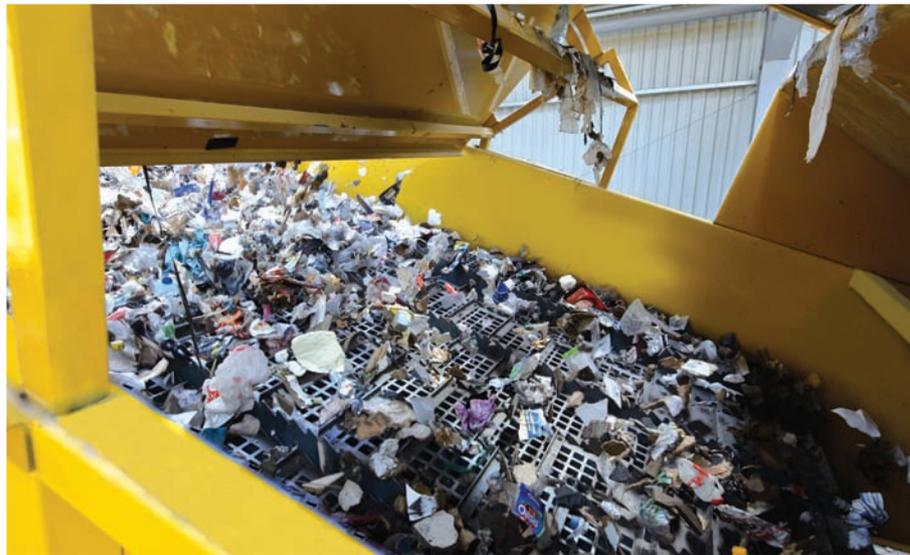
West Midlands based Recycling and Waste Management specialists Weir Waste Services Ltd are one of the largest independently owned operators in the Midlands and Warwickshire area of the United Kingdom. As part of the company's long term growth strategy to maximise recovery of recyclables from waste, in accordance with the Waste Hierarchy, they decided to develop a state of the art Materials Recovery Facility at their Trinity Street site in Oldbury.

Having purchased three previous Kiverco plants, supplied through Blue Southern, Weir Waste recognised the high standard of workmanship and professional service offered by the company who were awarded the contract to deliver on this project.

Partnership design

The brief was to design an automated C&I MRF with the capability to process in excess of 25 tonnes per hour in the most efficient manner possible whilst maximising the recovery and purity of the recyclables.

For Kiverco, it was important during the preliminary discussions, to understand the current and long term objectives of Weir Waste. Other factors considered included input waste streams, output specification and purity requirements, throughput, site requirements, budget, technology, health & safety, environmental and legislative requirements. Once this information was gathered Kiverco were able to present a tailored solution to meet the specific needs of Weir Waste.



Material Feedstock

The input feedstock was mainly Commercial and Industrial Waste but also consisted of some Construction & Demolition and Green Waste.

For Weir it was critical that flexibility was built into the system so that the plant could easily adapt to changes in waste streams and still maintain performance over time.

Modular design and class leading technology for flexibility into the future

Kiverco MRFs are designed in modular form so that clients can diversify, expand, relocate, recondition or retrofit as market conditions dictate, thus 'future proofing' the investment. Kiverco designers have undertaken many complex expansions to existing 3rd party equipment. In addition to modular design, Kiverco sections are designed for ease of maintenance and quick change of wear parts, to ensure planned downtime is kept to a minimum.

With this element of the design taken care of Kiverco recommended that Weir integrate the latest Autosort 4 with flying beam technology from our technology partners Titech.





Reducing risk through testing before investing

It was important for Kiverco to make sure the client was 100% confident that the proposed facility was going to deliver the expected results. By testing the material in advance, the client was able to reduce their risk from the start, giving them security that the facility would operate to the desired standards in advance of any large capital investment being made.

Testing of the current feedstock was arranged at Titech's test facility in Germany. The sample material was fed through a ballistic separator to separate the 2D and 3D fractions. From here a series of Autosort 4 units split the fractions into film, paper, cardboard, wood, PE and PET. The sample test results gave a recovery rate of 83% and a purity rate of 95%.

Kiverco offer testing across a range of technologies including optical sorting, ballistic separation, flip flow and trommel screening, magnetic and air separation.

Based on the material test results from Germany Kiverco created a process flow chart highlighting the expected hourly throughputs for each fraction

From concept to virtual then reality

In parallel to the material testing at Titech the engineering design team at Kiverco produced a virtual reality process flow animation. This presented Weir Waste and all of their stakeholders with a clear visual overview of how each fraction of waste material was going to flow through the process from reception to despatch. Kiverco offer detailed process flow animations for clients wishing to present project proposals to investors and municipalities or for internal training and showcasing.

SCADA Control Room

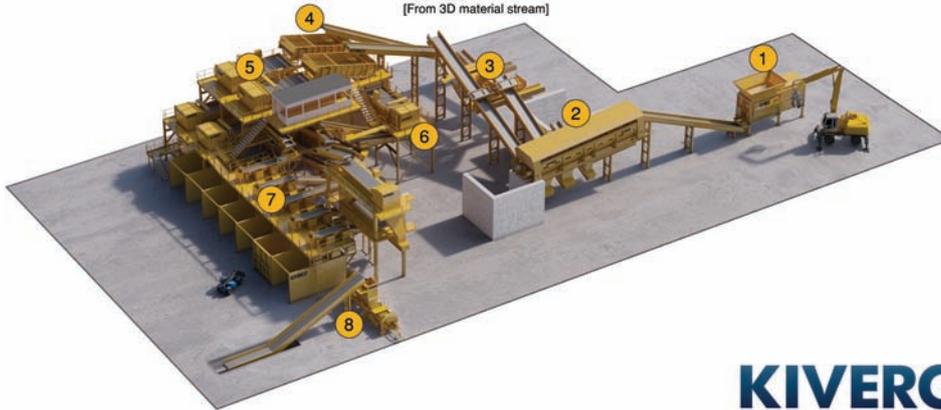
Another requirement from Weir Waste was the flexibility to start each section of the MRF either in sequence or individually as required for testing and inspection during planned downtime. A SCADA based control system was recommended for this purpose and also to allow for precise internal and remote monitoring of plant performance. Planned downtime and service plans could also be incorporated into the system to ensure the MRF operates to its optimum level at all times. A belt weighing system and energy meter were also fitted to allow Weir to monitor plant throughput and energy levels.

Working within clearly defined building parameters the MRF was designed using the latest 3D modelling software by Kiverco's in-house design team. The system had to be built to operate within a minimum footprint.

At our UK manufacturing facility each section of the MRF went through a strict quality control inspection process to ensure the plant both adhered to all relevant European standards and also specific requirements as requested by the client. Finally each section of the plant was trial assembled and then fully function tested at the factory before despatch. This was to ensure the MRF would run effectively from day one. This is a standard element of the Kiverco approach and also helps to minimise problems when the plant is being erected.

Commercial & Industrial Waste Processing Plant

- 1 Shredder**
Material sized to <300mm
- 2 Trommel**
0 – 30mm Fines removed
+ 300mm Oversize removed for re-shredding
Remainder of material (30 – 300mm) split across 2 lines
- 3 Metal Removal**
Over-band magnets remove ferrous metal
Eddy current separator removes non-ferrous metal
Manual quality control to remove contaminant from metals
- 4 Ballistic Separators**
'3D' Material is separated from '2D' material
50mm mesh removes any remaining fine material
- 5 '2D' Optical Sorting**
Optical sorters remove
Plastic film
Mixed paper
Brown fibre (card)
[From 2D material stream]
- 6 '3D' Optical Sorting**
Optical sorters remove
Mixed fibre (paper + card) – conveyed back to 2D stream
HDPE + PET plastics
Mixed wood
[From 3D material stream]
- 7 Manual Quality Control**
Operatives remove any contamination from products before entering storage bays
- 8 Baling**
Final products are loaded from material bays into baler
Baled and ready for transport off site



KIVERCO®

'Right first time' installation & commissioning

The overall project plan scheduled 12 weeks for installation and commissioning. This was broken into three phases. Working methodically with the minimum number of people the site team installed and commissioned the MRF exactly as planned, in sequence, on time, within budget and in conformance to all CDM regulations. After a dry and wet commissioning period of 2 weeks the plant was ready for testing throughput, recovery and purity.

The Result

Commenting on the new MRF facility, Managing Director Daniel Weir said "After all the hard work behind the scenes planning and researching this project, we are delighted to finally see the facility come together and be operational. Blue Southern and the team from Kiverco who managed the design and installation deserve a lot of credit for their constant advice and professional workmanship throughout. They worked tirelessly and the plant has come together like clockwork" On the performance of the new facility, Mr. Weir added, "We are delighted to say that results of initial tests have exceeded our expectations. The tonnage test results in particular have been fantastic and the purity of the recovered materials really is exceptional."

Output Fractions

Kiverco sales director John Lines was also delighted with the overall success of the project, commenting "The Trinity Street MRF is the first of its kind for Kiverco and demonstrates our ability to deliver a project on this scale and one which has exceeded our client's expectations.

Our expertise in design and manufacture, our ability to offer materials testing and to effectively partner with leading technology partners such as Titech and Hartner have all been demonstrated through this contract. We believe the Trinity Street MRF presents a convincing case to MRF operators everywhere that you can achieve, and indeed should expect, a high performance, high quality plant with built in flexibility and leading after sales care for much less than you might think."

Ongoing Lifecycle Care to ease the running of the MRF

With the MRF now fully operational Weir Waste can avail of Kiverco's extensive range of customer care and support packages. These include factory direct hotline support; full 'on the road' service backup; operator training, planned and preventative maintenance packages, spare and wear parts delivery and fitting.

Key Facts:

Company:	Weir Waste Recycling Services
Location:	Birmingham, United Kingdom
Waste Type:	Commercial and Industrial Waste Material
Recovery Facility	
Throughput:	25TPH
Staff Employed:	13

Technology:

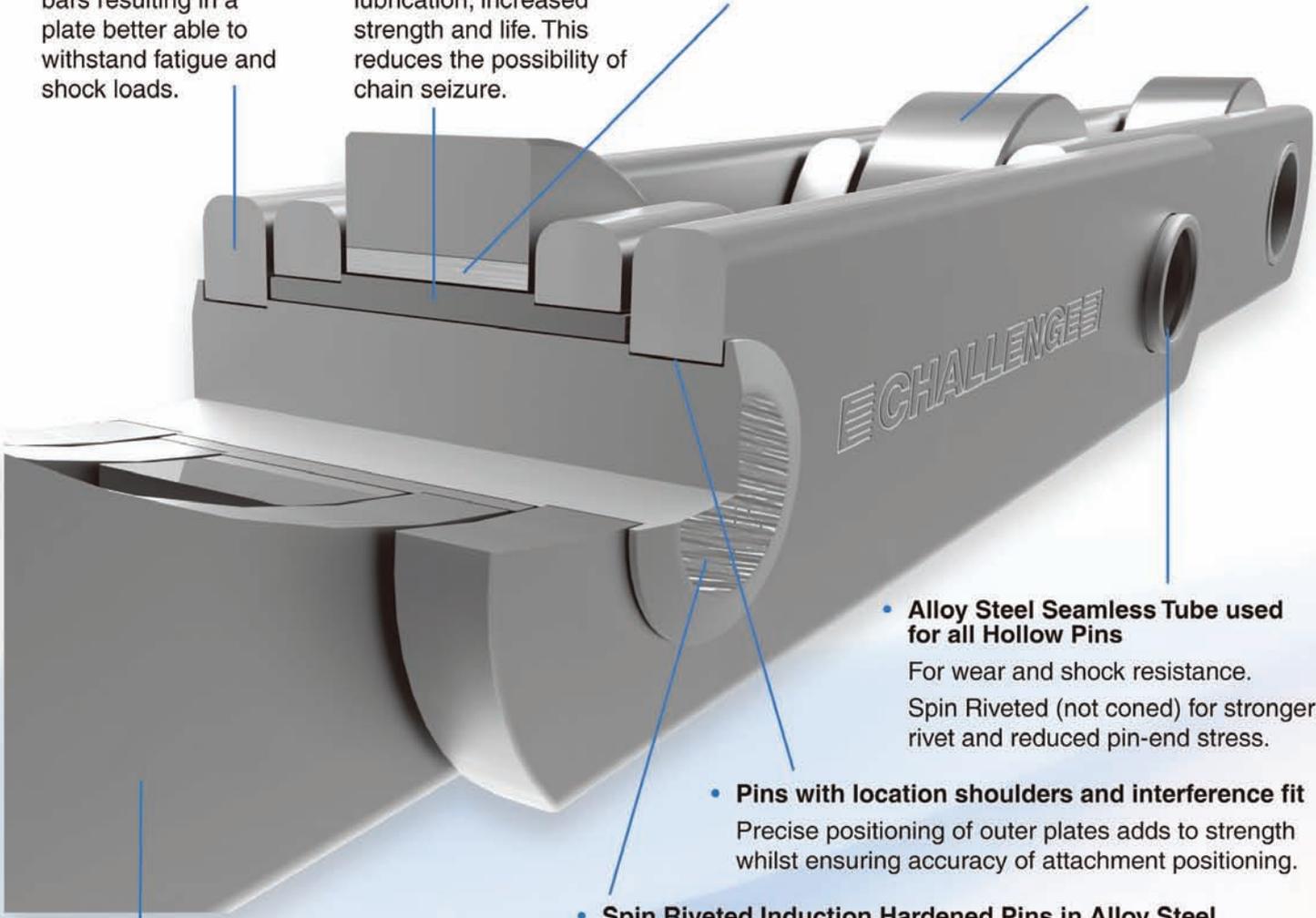
- 1 x Doppstadt Pre-Shredder
- 1 x Kiverco KL850 Trommel
- Overband and Eddy Current Magnetic Separators
- 2 x Hartner Ballistic Separators
- 8 x Titech Autosort 4 Optical Sorters
- Control Room c/w SCADA system, belt weigh & energy monitor, A/C

The project was part funded by ERDF (European Regional Development Fund) and managed by WRAP (Waste and Resources Action Plan).

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The Benefits of Challenge Spin Riveted Conveyor Chain

- **Material** – High quality steels used throughout
 - **Link plates cropped from high carbon cold drawn steel**
To avoid internal stresses associated with guillotined steel, Challenge produces all plates from high tolerance, on size, cold drawn steel bars resulting in a plate better able to withstand fatigue and shock loads.
 - **Bushes with location shoulders and interference fit**
For precise assembly; control on inner width and prevention of bush rotation. Bush shoulder length extended to form clearance between inner and outer plates and provide uniform lubrication; increased strength and life. This reduces the possibility of chain seizure.
 - **Case Hardened Alloy steel bushes precision machined from seamless tube**
Ensuring minimum distortion and superior concentricity.
 - **Optional Stainless Steel or Nitride treated liner bushes**
 - **Hardened Rollers with grinding**
Grinding the outer diameter gives excellent wear resistance and good load carrying qualities plus reduced wear on sprockets and a better visual result.
 - **Alloy Steel Seamless Tube used for all Hollow Pins**
For wear and shock resistance. Spin Riveted (not coned) for stronger rivet and reduced pin-end stress.
 - **Pins with location shoulders and interference fit**
Precise positioning of outer plates adds to strength whilst ensuring accuracy of attachment positioning.
 - **Spin Riveted Induction Hardened Pins in Alloy Steel**
For optimum life and the strongest rivet in any standard chain.
 - **Holes precision punched on dedicated progression tooling**
Guarantees consistently high tolerance pitch control and strong, fatigue resistant chain.
 - **Attachment and options**
CNC welded and integral attachments, special bushes, bearings. Zinc and Nickel plated parts, molykoted pins, bushes, and rollers. Plastic rollers, flanged rollers, hardened plates, stainless parts, liner bushes etc. All specials produced to the highest quality with a fast turnaround.
 - **Shot peened to produce a strong surface and reduce fatigue**
 - **Challenge has invested heavily in CNC controlled machinery for optimum batch component conformity.**
 - **Attachment plates jig assembled maintains position and squareness.**
- 

Challenge welcomes Hayley Slinn, specialist in conveyor chains

Challenge UK is delighted to announce the newest addition to the team – Hayley Slinn joins as Sales Manager with a focus on Conveyor chains. Having spent more than 20 years at Renold PLC, Hayley brings with her a wealth of experience and knowledge of the European conveyor chain industry.



From an internal sales engineer in the 90s, Hayley quickly rose through the ranks at Renold becoming area sales manager, before moving into export sales and then on to run the UK sales office.

After Renold closed its facility in Burton-on-Trent, Hayley spent a year with Eriks before moving to Challenge to follow her passion for Conveyor chains.

Having recently celebrated the anniversary of the newly invested conveyor chain plant in Ningbo, Challenge is fast becoming the driving force in custom produced conveyor chains for all kinds of special applications.

British managed and operated, the Challenge Ningbo plant employs full-time, on-site British engineers with decades of chain production experience to oversee production, ensuring the highest quality levels are achieved.

The plant is audited annually by a leading UK firm, flown in especially to assess ISO9001: 2008 conformity. You can rest assured that all materials and products are thoroughly vetted and tested and are fully traceable throughout the production process.

With years of experience in manufacturing tough, long lasting chains for the Palm Oil and Sugar Industries in Asia, Challenge uses CNC automated processes and cutting edge heat treatment technologies to ensure consistently high quality components.

High carbon, cold drawn steel bars are used to manufacture link plates ensuring they are free from the internal stresses that occur in the inferior guillotined steel plates of most competitors.

Seamless alloy steel tube is used for hollow pin and bush production, ensuring minimum distortion during heat treatment and guaranteeing interference fits with the plates.

As specialists in the production of spin-riveted chains, Challenge use high-grade, hardened alloy steel pins riveted on British machines to give you the strongest rivet on any standard chain.

CNC welding of attachments removes the scope for human error, ensuring consistently high quality welds.



I am sure you will all join us in welcoming Hayley to the team and she looks forward to meeting you to discuss your next conveyor chain project.

In the meantime, please send your conveyor chain enquiries to Hayley@challengept.com



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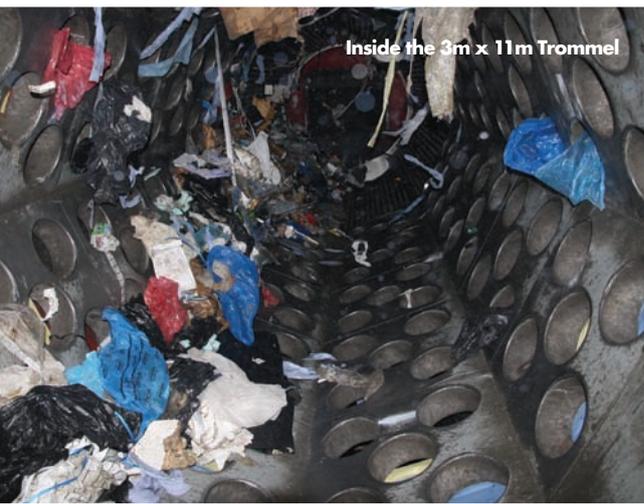
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Incoming waste



Pre-sort operation



Inside the 3m x 11m Trommel



The compact, multi-storey MRF with trommel, ballistic separator and five optical sorting units

O.Kay Engineering supply new Automated Recycling Facility for Blakeley's Waste Management



Blakeley's Waste Management Ltd is a company with over 25 years' experience offering waste management and recycling solutions throughout the North West of England. Based in Wigan, in the heart of the North West, their services include the collection and transfer of hazardous, non-hazardous and electrical waste materials.



They recycle over 60% of all the waste they receive in their on-site recycling plant, the rest distributed to specialised treatment facilities; minimising the output sent to landfill sites.

Recently the company made the decision to invest in a brand new automated recycling facility and subsequently contracted the services of O.Kay Engineering, the UK's leading specialist in design-and-build waste processing plants and material handling systems.

The build commenced in the summer of 2013 and the plant was commissioned in December and currently processes 1,100 tonnes per week.

David Roberts of the HUB went to investigate and talk to the people behind this hugely successful operation.



Optical sorting unit with 'flying beam' infra-red technology

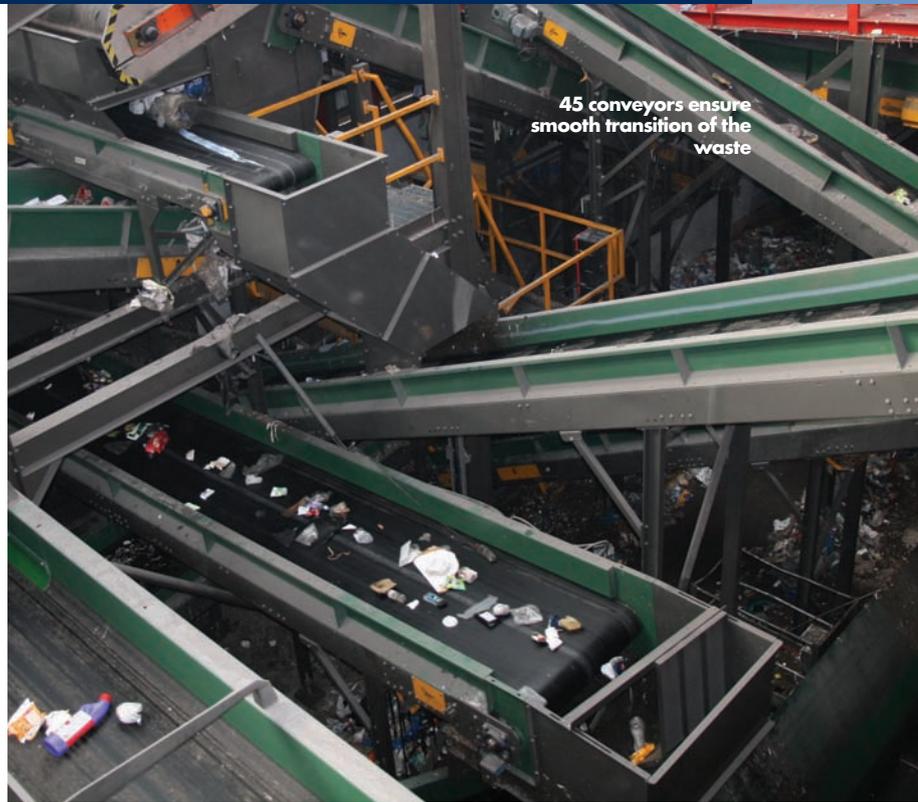
The plant: at a glance

The highly innovative plant incorporates a Bag Opener, Pre-sort, Trommel, Flip Flop Screen, Air Separator, 3 Electro-magnets, ECS, Ballistic Separator, 5 NIR units, with 45 conveyors and a Baler completing the specification.

The plant: in-depth

Configured by a team of innovative engineers, the Blakeley's MRF is a 'white hot' combination of profit-boosting design requirements and advanced system capability.

In every aspect the plant uses latest technologies to reduce operating costs and boost performance. It begins with an automatic bag opener which receives the mixed incoming materials and passes them out in a metered flow to a pre-sort section which optimises the plant's downstream operation. Thereafter, a 3m x 11m trommel splits the waste into three streams, from which the fines/organics enter their own dedicated line comprising a flip flop screen and advanced air separation technology. The larger materials from the trommel are split so the oversize materials are captured for recovery and the midsize pass onto a ballistic separator to split the stream into 2D items (flats) and 3D items (rounds). This 2D/3D separation is done to boost performance in the next phase of equipment, which is the advanced core of the system. Five of the latest-generation optical sorting units, all with 'flying beam' infra-red technology, are set out in a loop formation for the fully automated recovery of office paper, mixed paper, natural film, jazz film, mixed plastics and wood. The labour-saving across in these five units on a double shift is in the region of £1m per year and they offer consistent recovery and purity - 24/7. With three magnets and an eddy current separator also in the plant, the ferrous and non-ferrous items are recovered to complete the clean-sweep capture of all incoming recyclate streams. The recyclables fall into their dedicated bays allowing the baler to batch bale them ready for collection by the reprocessor. Any



heavily on a lot of technology and a big investment therefore by Blakeley's Waste Management to pick out the recyclates that will then make the plant profitable and of course work for their customers, which is why they use Blakeley's in the first instance. Blakeley's have a very strong in-house engineering capability that they wanted to bring to the development of the MRF and so we worked closely with them sharing technical knowledge in the early stages as the 3D designs were developed. The limited footprint was an obvious important consideration as we had to get all the technology into the building alongside the storage facilities for the large volume of waste that would be processed. So we had to discuss all compromises that both parties had to develop together which resulted in a plant that worked and was exactly what Blakeley's required, which is the MRF to process the material at this volume.

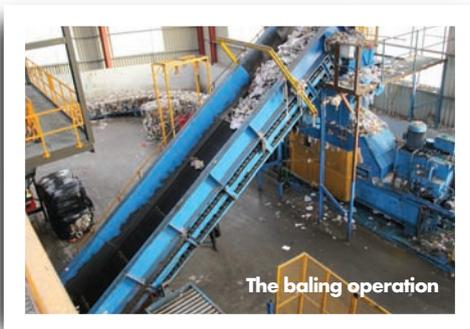
The original building that existed had to be extended in length and height to accommodate the 62 x 25 x 8 metre plant which took a lot of engineering 'know how' to constantly slim the design down to fit the space available, while keeping the civils cost down and also ensuring that we didn't compromise the design to the point that the material would choke; we had to be sure the material flowed throughout the plant.

Throughout the build and after commissioning O.Kay Engineering will fully support the Blakeley in-house engineering team and maintain the partnership into the future."

A greater recycling service

Overall the new plant, now fully operational has been a huge success.

Graeme Knight, MD-Blakeley's, commented, "We had a desire to increase the amount of recycling that we could provide and generate more income from the recyclates and divert more material from landfill. As our original plant was a small, mainly manually operated MRF the new plant utilises up to date technology of near infra-red optical sorting units to increase the rate of recovery of the recyclates. We were looking for a UK plant builder to help us put together a design that we had and to configure the equipment within the building and O.Kay Engineering were our first choice. This became a partnership in design contributions and the selection of the equipment. We are delighted with the build quality and at the end of the day the waste ends up where it should be in the correct bay - 'It does what it says on the tin'. This investment has enabled us to provide a greater recycling service to our customers and increase our customer base, so a double return from the new plant."



residual material is captured, baled and wrapped and sent to EfW for RDF. With all the materials separated as products, the 15tph MRF truly offers a zero-to-landfill solution.

A successful partnership

Antonia Kay, Director - O.Kay Engineering, commented, "The MRF is designed to process a mix of C&I and general waste because they have 5,000 customers who don't all deliver the same material; therefore the plant had to be flexible and very robust to cope with the extreme range of materials. It processes 15tph and, in order to process that range of materials at that volume, we rely

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New Barker Ross MRF team launches, offering tailored health and safety training programme

As materials recovery facilities (MRFs) become increasingly important in providing raw materials to industry, recruitment specialist Barker Ross has formed a support team to supply the growing range of operatives needed to provide a quality product.

The Barker Ross team will also be offering a MRF specific health and safety (H&S) training programme to prepare candidates for an industry where workers face many hazards.

With over 20 years' experience in the waste and recycling industry, Baker Ross knows how well prepared people have to be before going onsite at an MRF. So the MRF H&S training programme readies candidates for various roles. This means that clients can be confident safe systems of work are being adhered to.

Simon Gimson, who heads up the MRF team, says: "More and more MRFs are being built to cope with the need to reuse materials, but finding the right people with the right training to work, in what can be a complex environment, can be hard."

"Clients are also telling me that the quality of sorted recycled waste is key to their success, and to get that they need a well-trained workforce and this is what we deliver."

"We've been working in the waste and recycling industry for over 20 years. We know exactly what kind of people are needed and as demand has grown the next step for us was to create a dedicated training package and a team to support our MRF clients."

Clients can also take advantage of Barker Ross's biometric time and attendance systems which streamline the management of temporary staff.

Candidates are comprehensively screened and a silent supervisor scheme is in place to facilitate new starters. Also offered is video capture on-site, so Barker Ross can show candidates what sites actually look like, where to report and what processes they will have to undertake.

The Barker Ross MRF team will recruit for both temporary and permanent roles, including picking operatives, multi skilled plant operatives, baler operatives, engineers, weighbridge clerks, administrators, supervisors and managers



Maltese MRF site U-Recycle selects Middleton Engineering for conveyor solution

Maltese materials recovery facility U-Recycle Limited, based in Naxxar, Malta has ordered a new state-of-the-art in floor chain conveyor and two man picking station from specialist UK recycling engineers, Middleton Engineering, to upgrade and improve facilities at its operations centre in Naxxar.

The new two flight conveyor, with mid-point picking station for removing unwanted material from the waste stream, will primarily handle paper and plastic, and has been designed to feed an existing channel baler. A majority of the material will include shredded paper from a growing number of commercial customers and the company expects to be handling around 500 tonnes of waste material per month, once the new solution is installed.

U-Recycle Ltd's Managing Director, Joseph Sammut explains: "Our materials recovery business is expanding, so we need a new conveyor to separate and process material more easily to make our operation more efficient and result in a higher quality end product. We chose Middleton Engineering, after seeing a conveyor in action at a waste management facility in Leeds, because we're happy with the quality, the fact that they are offering a complete solution, fully integrated with our existing baler, as well as organising the logistics of shipping and installation."

Design aspects for the new conveyor, which was fabricated at Middleton's manufacturing centre in Somerset, have been especially important, as everything needed to be exactly right prior to export. This particularly includes getting the conveyor bandwidth and speed right so the conveyor meets future needs. "Ease of cleaning and maintenance to minimise downtime, as well as safety systems to protect operators, especially in the picking area, have also been built-in," explains Mark Smith, Engineering Director at Middleton Engineering.



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BlueMAC help customers to "Waste Nothing"

BlueMAC Manufacturing combines design expertise and engineering excellence with in-depth industry experience and proven sales and marketing skills. BlueMAC is an exciting new company with a proven pedigree, capable of providing ideal MRF systems and equipment solutions for the recycling and waste management industry from concept, to delivery and installation. BlueMAC Manufacturing is the result of a coming together of like-minded industry professionals from within Blue Group and Dmac Engineering. Between them, they have created what is certain to quickly become a key player in the production of bespoke recycling plants under the BlueMAC brand.

The thinking behind BlueMAC is to offer the recycling industry innovative modular products that are robustly manufactured at a cost effective price. BlueMAC's turnkey in-house manufacturing process ensures total control of cost, design, components, engineering, quality and after-sales product support, overseeing each project from initial enquiry to installation and commissioning.

The increasing move towards bespoke MRF systems allows the recycling professional to handle even more varied in-coming waste streams and produce highly specified end-product recyclables. The ability to fit new multi-tasking recycling plants into existing yards, often with site and dimensional restrictions, also contributes to the popularity of the tailor-made solution. Here BlueMAC ticks all the boxes and, through long-standing relationships with such specialist market-leaders such as Doppstadt and General Kinematics, can also incorporate the best shredding and air-classifying equipment into their MRF designs, including volume reduction and sized RDF/SRF production..

The BlueMAC components list is impressive and includes feeders, conveyors, trommels, picking stations, flip flow screens, ballistic separators and ferrous/non-ferrous removal systems - all of which feature robust design and manufacture to ensure a long and productive working life. These modular components, combined with the compatible Doppstadt shredders and GK air classifiers form the basis for virtually any reclamation task, providing BlueMAC with the ability to turnkey recycling plant and equipment solutions economically, effectively and efficiently.

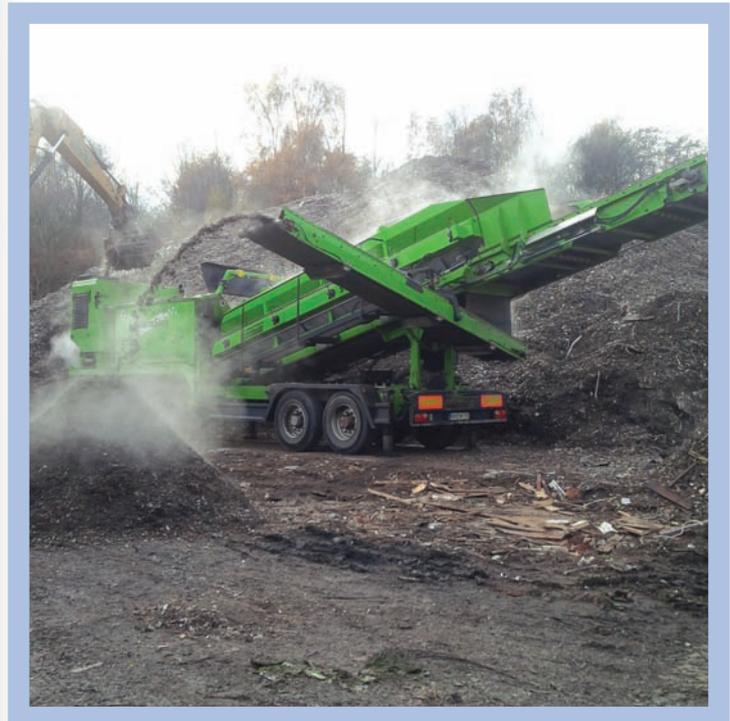
One well-established recycling company based in the home counties has already taken delivery of a BlueMAC bespoke MRF at its Ascot facility. Shorts Group undertook detailed examinations of what was available on the market and opted for the BlueMAC system for its new MRF. Managing Director Gary Short said "I visited the BlueMAC manufacturing facility to see some of the new plant during construction. I was thoroughly impressed by the level of design and new ideas. During the visit, my operators and managers had the opportunity to further discuss the design and possible implementation of better access points for maintenance and servicing. I am confident that BlueMAC's technical knowledge, first class machinery and excellent customer support will benefit Shorts Recycling and our customers".



The industry experts behind BlueMAC are enthusiastic and confident about their joint venture together. Pat McGeary says (Suggestion 1 below). Eugene Donnelly is equally ebullient (Suggestion 2 below). From the manufacturing point of view, Declan McShane says (Suggestion 3 below).

- (1) "This gives us a high quality "in-house" manufacturing base which will allow us to closely oversee every step of the way from enquiry to installation, which can only be of great benefit to our customers. With our highly skilled and experienced Project Engineers and manufacturing team our focus will also be on International markets as well as the UK & Ireland. We have already secured numerous International orders with more in the pipeline from across the Globe"
- (2) "This is a natural progression for us with the BlueMAC concept. We can all draw on our specific skills and apply them to providing an ideal and tailor-made MRF solution for our valued customers to fit their budgets".
- (3) "Our long-standing experience as a manufacturer for some of the most famous global brands in recycling, quarrying and mining give us a real edge in this new venture and we look forward to the continued growth and development of BlueMAC and the products we can engineer and supply".

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The Neuenhauser star screen is available in a number of formats which includes static, wheeled and tracked and comes with electric drive, diesel/hydraulic drive or diesel/electric drive.

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REMU



Reduce waste disposal costs, maximize material recovery & generate extra revenue

With much media focus during 2013 on the HMRC guidance on Landfill Tax and the disposal of trommel fines, many companies in the waste and recycling industries are preparing to start 2014 on a positive note by investigating the effect this will have on their business.

The Award Winning Max X Tract Density Separator from Worsley Plant has the unrivalled ability to separate a number of waste streams and extract materials with a market value, "giving significant financial benefits and offering environmental advantages" according to the judges at last year's CIWM Awards. It can significantly reduce costs whilst generating revenue through the trading of the recovered materials. It also allows companies to demonstrate their commitment to sustainability and shows customers their waste is being dealt with responsibly.

The Max X Tract and Flex X Tract Density Separators are designed to separate materials less than 100mm at a processing rate of 100 tonnes per hour to give higher value materials whilst reducing the amount of material going to costly landfill. Valuable materials can be separated from waste such as metals, wood, plastics, paper, bricks, stone and organics.

Worsley Plant continues to work with some key customers in the recycling and waste management industries, with some of the achievements detailed below:



Griffiths Recycling, a Swansea based waste management and recycling company, needed to process 5,590 tonnes of residual fines from a materials recycling facility (MRF) which would cost nearly £360,000 to send to landfill at the higher rate. The Max X Tract recovered 2,877 tonnes of clean glass fragments, which were suitable for recycling and 764 tonnes of paper, plastics and card, which were used as refuse derived fuel (RDF). As a result, only 1,949 tonnes of fines were landfilled at the higher rate, which saved the customer over £230,000 in addition to a rebate for the recovered glass.

Wheeldon Brothers run four waste and recycling transfer stations in Greater Manchester processing over 120,000 tonnes of construction and demolition (C&D) and commercial and industrial (C&I) waste each year. Each day around 120 tonnes of trommel fines were sent to landfill and much of this was above 8mm and would have incurred the standard rate of landfill tax (then £64 per tonne). Now only 6% of their materials incur the standard rate and over 60% can be recovered and sold on. Within 3 months they had covered the cost of the installation.

Dunmow Waste Management have shown that on every 100 tonnes of mixed waste trommel fines that are processed through the Flex and Max X Tracts, they are reducing their cost of waste disposal from around £7,150 to just £745. That's a 90% reduction in disposal costs. Due to these cost savings and extra revenue generated through sale of recovered materials, including 'clean hardcore' and scrap metal, the density separator will have paid for itself within the first year.

Sean Heron, Worsley Plant's Managing Director said: "The Max X Tract density separator is unrivalled in its ability to extract material with a market value. It uses the latest technology in material separation and is helping businesses who manage large volumes of waste material to extract valuable material including -8mm trommel fines which in turn is reducing the amount of waste sent to landfill.

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Roltech overcomes the challenges of Ironbridge

Roltech Engineering has designed constructed and installed a new tripper conveyor system on behalf of main contractor AJS Contracts Ltd, at the Ironbridge power station, which has recently converted from coal to wood pellet fuel (biomass).

With current legislation stating that any fossil fuel power station in the UK without FGD (Flue Gas Desulphurisation) technology will be forced to close by the end of 2015, in 2010 E.ON UK took the decision to carry out a 100% conversion of Ironbridge Power Station from coal to biomass.

The 1,000mW power station, which produces enough electricity to power around 750,000 homes, is located in the Ironbridge Gorge on the River Severn. Made up of two 500mW units, both of which have been converted to give a de-rated power output of approximately 800mW, significant for any biomass power generation facility.

The task of delivering the new 20,000t capacity fuel store and modifying the existing handling systems was the responsibility of principle contractor AJS Contracts Ltd. The challenge as always was budgetary constraint, due to the short term nature of the conversion, a low cost solution was required, however, the design had to meet all legislative and permitting requirements and comply with all relevant standards.

Central to the biomass handling system was the fuel store feed system, AJS Contracts drew on the knowledge and experience of Staffordshire based Roltech Engineering Ltd to undertake the design, construction and installation of the bespoke designed tripper conveyor.

Manufactured at Roltech's workshop in Newcastle-under-Lyme, the new 150m long tripper conveyor had to meet strict performance guarantees, achieving a throughput rate into the fuel store of 1000mtph. The fuel store operational procedures adopted by E.on meant that the 200 tonne conveyor had to be

suspended from the roof structure and had to be capable of depositing biomass fuel at any point along its length. Roltech's Project Manager Richard Austin explains... "Being under-slung, all of the conveyor support is overhead, this made installation extremely challenging as the huge sections had to be winched into place". "Due to the potential risk of fire and explosion within the store, every moving component of the conveyor had to be intrinsically safe, meeting the strict ATEX zoning that had been applied to the fuel store".

AJS Contracts first engaged with Roltech in June 2012, the design and manufacturing process took just 12 weeks. Martin Wylie, AJS Contracts Ltd, renewable energy divisional manager explains: "Roltech supported us throughout all aspects of the project from initial concept design to construction completion. It was clear from the outset that Roltech were determined to deliver one of their most challenging build's ever in the most professional way possible, on a project that had an almost impossible timescale.

"Working on a renewable energy project in the UK brings its own challenges, however, combine this with constructing within a world heritage site of which Ironbridge is, really increases the need and focus to operate efficiently and to achieve a build that is aesthetically pleasing. The real breath of fresh air for AJS was to work with a UK turnkey contractor, a company who can design, manufacture and install the complete package, providing auditable quality procedures and more importantly an excellent understanding of UK Health, Safety and Environmental regulations, this removes additional pressure from the principle contracting team. Roltech have developed a product that can be rolled out globally across the renewable industry sector and AJS Contracts would be more than happy to work with Roltech on future projects".



BINWALL system continues to make inroads

Grass Concrete Ltd's BINWALL system continues to make inroads with a simple and effective solution for bulk storage. The BINWALL system is designed and built for material loading bays and is now widely adopted for bulk handling, waste stations and recycling distribution centres.

Often described as a giant version of a well-known children's building block, the simple to install BINWALL system is made up of individual interlocking concrete dry laid blocks and can be built up to 4m high to form individual or a series of loading bays at over 1 tonne per unit. BINWALL is an extremely effective solution to creating storage bins/bunkers for aggregates and waste materials. The modular design consists of two sizes of units, which bond together like giant bricks to form the required bay layout

Available in both heavy and medium duty types and suitable for: bin stores, waste

transfer stations, builder merchant yards, re-cycling plants, pusher walls. It also meets the challenge in the ever changing demands of quarrying. Easily installed by dry build placement, it can just as easily be dismantled for re-positioning elsewhere.

BINWALL is manufactured from vibrated wet cast concrete with a minimum compressive strength of 35N/mm². The 1500 x 750 x 400 simple modular interlock fitting provides a rigid structure to withstand the toughest impact and loading from a variety of materials or the powerful force of typical waste loading shovels.

A BINWALL bay is easily installed, with modular units positioned directly from a grab lorry and where space is an issue simply assembled around existing waste materials.

It is suitable for both indoor and outside materials handling and can be seen in many of today's indoor waste handling stations. As a dry laid system it is simply positioned within exterior walls for indoor recycling centres or indoor bulk handling.

A flexible system BINWALL is certainly making its mark in the bulk handling industries

See a video of the simple installation
<http://www.grasscrete.com/docs/walls/binwall.html>

Bell coal trucks chosen by G A Smith for port contract

Bulk handling specialist G A Smith Ltd has made moves to further expand the coal handling capabilities of its fleet in the North East, with the purchase of four Bell Equipment coal trucks for use at the Port of Tyne near Newcastle - the first Bell models to be purchased by the company.

The machines, which are based on the best-selling B40 articulated dump truck but fitted with 1,200mm coal extensions, are proving an essential resource in the fulfilment of a sizeable coal import contract for G A Smith.

The company, which has been established since 1987, has become responsible for overseeing the successful manoeuvre of over four million tonnes of coal, imported into the Port of Tyne. The trucks are needed to transfer coal from incoming boats to be stockpiled.

"The Port of Tyne contract presents our fleet with a heavy work consignment, requiring machines to be operated around the clock," explains George Smith, the company's director.

"Needless to say, with such demands on our machinery, we can only bring equipment on board that's reliable, fuel efficient and fit for purpose."

Given that G A Smith was relatively unfamiliar with Bell Equipment, George was invited to visit the company's UK base and see the extent of its operation. Impressed with the equipment and service on offer, George made the decision to introduce Bell coal trucks within his organisation's fleet.

"It was easy to develop confidence in the capabilities of Bell's equipment. We made the purchases back in September, selecting four machines that were extremely well-built and offered the right specification.

"Integration within our existing fleet has been seamless, with Bell providing specialist training to all our operatives on both the day and night shift, to ensure that we know how to get the best out of the coal trucks.

George Smith explains that the Port of Tyne is currently extremely busy, particularly with the competitive price of coal at present. As such, the Bell trucks have been regularly set to task, working two 12-hour shifts, seven days a week.

"Without doubt the machines are performing to, and beyond expectations, with impressive fuel economy and a notably positive response from site operatives."

Nick Learoyd, managing director of Bell Equipment UK furthered his comment by saying: "It's great to hear more positive feedback from satisfied customers who've chosen to add our hard-working machinery to their fleets.

"The reputation of our B40 models goes before them, as they are economical to run and receive glowing reports from operators, time and time again. These machines are really industrious, and can be relied upon to offer return on investment, as well as minimal downtime.

"Increasingly we're finding that customers are showing the confidence to work our machines around the clock. G A Smith provides a perfect example of this trend, and it's pleasing to hear that the chosen equipment is already matching up to expectation.

"I hope the purchase of these articulated trucks marks the beginning of a long and mutually rewarding relationship."

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Bulk handling specialist G A Smith Ltd has made moves to further expand the coal handling capabilities of its fleet in the North East, with the purchase of four Bell Equipment coal trucks for use at the Port of Tyne near Newcastle - the first Bell models to be purchased by the company.



U.S. Cement manufacturer takes control of fugitive material



A global producer of cement, ready-mixed concrete, aggregates and related products has completed a significant upgrade to its bulk material handling conveyors, helping the company eliminate waste and reduce maintenance, while minimizing potential risks from airborne dust and fugitive material build-up. By avoiding accumulations that required cleanup, the company is also reducing the need for maintenance personnel to work in close proximity to fast-moving conveyors, helping further diminish the chance of accident or injury.

Grupo Cementos de Chihuahua (GCC) is a global producer of cement, ready-mixed concrete, aggregates and related products to construction industries in Mexico, the United States and Bolivia. The company began manufacturing operations in 1943, with a capacity of just 60,000 metric tons. Expanding gradually according to a clear strategic vision, the firm has developed innovative processes and technologies that contribute to dynamic growth, while fostering an environmentally-responsible, community-oriented culture.

Like most cement manufacturing sites, GCC Dakota employs an extensive conveyor system to handle raw materials and move finished product. In keeping with its long-range plans to employ industry best practices for bulk handling and fugitive material control in its plants, company officials conducted an extensive assessment of the conveyors in early 2013. It was determined that significant upgrades could be made on conveyor transfer points to reduce spillage and dust emissions, and they contacted Martin Engineering for a proposal.

"Virtually any time bulk material is moved, especially in large quantities or at high speeds, the potential exists to create and release dust," explained Martin Engineering Product Engineer Dan Marshall. "Dust accumulation affects both safety and productivity, so it's really more than just a housekeeping issue. Complicating the situation is the fact that bulk handling systems frequently must accommodate changing weather and material conditions, making dust management an even bigger challenge."

Scope

The upgrade involved a significant overhaul of six transfer points on four conveyors, which were originally constructed in the late 1970s. All belts are 24 inches (61 cm) wide, and range in length from 40 feet (12.2 metres) to 110 feet (33.5 metres). During normal operation, they move 200-250 tons per hour of clinker from the storage building and carry it to the bins feeding the finish mills.

"Most of the material handling system at this plant was fairly standard issue for its time, but some of the components were nearing the end of their useful life," commented GCC Maintenance Manager Ralph Denoski. "We were also aware that significant advancements had been made in some areas of bulk handling, and we wanted to take advantage of the newest technologies."



With a detailed proposal from Martin Engineering in hand, GCC planned the upgrade process for a scheduled shutdown in March. In addition to supplying the components, Martin Engineering was responsible for planning and supervision of the project, while a mechanical contracting group assisted with the installation.

Components

Work began on all four conveyors by disconnecting the material inlet chutes from the existing skirtboard system and removing the worn rubber skirt seals, clamps, supports, skirtboard chute walls and tail boxes. Existing idlers were also removed to allow mounting of new belt support systems and troughing roll assemblies.

On each conveyor, three Martin Trac-Mount™ Idlers were installed, spaced to deliver optimum belt support. The unique idler design delivers proper belt carriage, while stabilizing the belt line to improve sealing. Its slim profile requires only eight inches (203 mm) of space for 6-inch (152 mm) idlers, and the slide-in / slide-out frames allow service without the need to raise the belt or remove adjacent idlers.

With new idlers and troughing roll assemblies in place, each transfer point received one new impact cradle and two belt support cradles. Installed under the loading zone, Martin Impact Cradles absorb the force of falling material in a transfer point and stabilize the belt line to help prevent the escape of dust and fines. Rugged impact bars are composed of a top layer of low-friction, ultra-high molecular weight (UHMW) polymer and a lower layer of energy-absorbing styrene butadiene rubber (SBR).

Working in conjunction with the impact cradles are a pair of Martin Slider Cradles on each conveyor. Installed under the skirtboard of the transfer point, these cradles support the edges of the belt specifically to eliminate sagging. With the proper support in place, pinch points that can trap material and gouge the belts are eliminated, improving both sealing efficiency and belt life. When the top eventually wears out, the bars can simply be flipped over to provide a second wear surface.

Sixteen foot sections of skirt board were installed on each transfer point, with new side / center supports and covers. The new skirt board is 73 (17.8 cm) high on two of the conveyors, and 123 (30.5 cm) high on the other two. Each system also included internal skirt board wear liners and a new tail box assembly with sealing components.

To deliver positive containment of fugitive dust, each transfer point was outfitted with Martin ApronSeal™ Skirting, a dual design with two sealing surfaces. A primary seal is clamped to the steel skirt board to keep lumps on the belt, and a secondary seal or "outrigger" strip captures any fines or dust particles that may pass beneath the primary seal. The secondary seal lies gently on the belt and self-adjusts to maintain consistent strip-to-belt pressure, despite high-speed material movement and fluctuations in the belt's line of travel.

Each conveyor was then fitted with a Martin Tracker™ for the return side, installed approximately 10 feet (3 meters) ahead of the tail pulley. By providing immediate and continuous precision adjustment of the belts, the Tracker helps reduce edge damage, prevent spillage and extend belt life.

Finally, each belt received one Martin QC1™ Cleaner HD as a primary cleaner and one Martin SQC2STM Cleaner. The QC #1 features a special polyurethane blend and tungsten carbide tip to deliver service life 2-3 times longer than conventional urethane blades. Designed to provide excellent cleaning performance immediately, avoiding any break-in period, the assembly maintains consistent tension without frequent adjustment.

Results

The entire upgrade operation was completed in just 11 days during the scheduled outage, with crews working 12-hour days to accommodate the planned shutdown. While specific cost savings are difficult to quantify, Denoski said the difference is easily observed. "The production team responsible for that area has had nothing but positive feedback about the upgrades," he commented. "We're not losing product to spillage and dust, so that material can be sold instead of cleaned up off the floor. The manpower formerly spent on cleanup can now be directed to core business activities.

"Our experience with Martin Engineering has been very positive," Denoski concluded. "The company's greatest strengths are its knowledge of bulk material handling problems and the best solutions for addressing them. And the no-excuses guarantee gives us the confidence of knowing that it will stand behind its products."

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Precia-Molen provides weighbridge management system for Carrieres de la Vallee Heureuse Quarries

Situated in the Marquise basin between Boulogne sur Mer and Calais, Carrieres de la Vallee Heureuse Quarries (CVHQ) produce over 15,000 tonnes of aggregates every day. With over 200 ha of a hard compact limestone deposit the company extract sand, gravel, limestone flux, limestone chippings, micro-sized limestone and rockfill which are transported by road, rail, sea and river to customers in France, Belgium, the Netherlands and the UK.

CVHQ has a dynamic, committed company policy and was one of the first sites in France to obtain triple certification to ISO 9001, ISO 14001 and OHSAS 18001.

With over an average of 400 trucks (600 in peak periods) visiting the busy site daily CVHQ recognised the need to improve its customer service with regard to identification of customer requirements, monitoring orders and optimisation of truck loading on-site.

Subsequently, following a tender process CVHQ awarded an order to Precia-Molen to supply and install a bespoke weighbridge management system. Offering a wealth of software functions well beyond simple weighing, Precia-Molen supplied a weighing solution comprising a touch screen driver console together with ROC weighbridges which has met the demands of CVHQ by providing a total package which has allowed them to optimise customer satisfaction by improving quality of service and productivity.

For road shipments CVHQ had a desire to improve its customer service, from identification of customer requirements to monitoring orders and optimised loading of trucks on-site. The Precia-Molen system has helped the company to achieve its quality objectives by - delivering the right product, at the right weight to the right destination whilst limiting the impact on the environment by reducing health and safety relating to traffic on-site and reducing the amount of time vehicles spend on site.



Load Management Software

Previously the site was equipped with a weighbridge at the entrance, a weighbridge at the exit and a "pre-checking bridge" in the quarry. The new system comprises five weighbridges, two at the entrance, two at the exit and a 'pre-checking weighbridge' in the quarry. The weighbridges are driver operated using BI WIN driver consoles.

On arrival at site the driver presents his badge to the driver console and once identified the barrier opens allowing access to the site. The vehicle is immediately identified and associated with a product and a loading point. Delivery notes are printed automatically from touch screens positioned on the two exit weighbridges.

The information recorded (in real time) on entry is displayed on large information panels. Loading orders are transmitted by radio link to terminals located at the fixed and mobile loading points allowing immediate identification by the operators.

The touch screen driver console, with integrated industrial PC also allows:

- The display of customised messages:- Badge Presenter/Badge authorised/Badge refused etc.
- Transmission of date to the system host (e.g., visits by numbered badges)
- Activation of outputs configured by the system host (activation, barrier opening, for example)
- Access control configuration is carried out via a keyboard within the BI WIN driver console. The on-board PC, which is protected against voltage outages, includes software for processing access badges, counting vehicles, and other information vital to the efficient management of the site.
- An integrated 12V battery allows data to be saved in the event of mains failure. Database updates are completed automatically via the Ethernet link providing the site manager with a database updated in real time.

Conclusion

By rationalising the loading and movement of trucks and loading equipment, CVHQ have improved site safety and service and productivity ratios.

CVHQ has also benefitted from better visibility of loading operations. With this tracking system hauliers are easily identified, operators who load the trucks know where vehicles are and what they must do in real time.

As traffic is more fluid at the entrance and exit the time on site has been optimised, accident risks have been reduced and the impact on the environment limited. CVHQ have also been able to eliminate overloading on departing vehicles.

"The Precia-Molen solutions came into operation at the start of the year. We were able to count on the professionalism and support of the Precia-Molen highly mobilised teams on the ground, to guarantee an on schedule start-up of the installation. We are satisfied with the initial results", concluded Bruno Devaux - Industrial Performance Director of CVHQ.



Complete Weighbridge Systems and Software

Weightron Bilanciai Ltd have established an unrivalled position as market leaders in the supply of complete weighbridge systems for a wide range of major construction projects. Key areas of activity include Energy from Waste, Waste Management, Utilities and Biomass. The key to the company's success is its ability to integrate all aspects of the vehicle weighing and management process within the operational site.

Fully Integrated Design

Unlike most of its competitors, Weightron design and build all key components in the weighbridge measuring chain, including the load cells and instrumentation. The DD2050 driver terminal sets new standards for automatic weighbridge operation, providing a robust touch-control interface with user-friendly colour pictograms and easy-to-follow operator procedures. When used in conjunction with the company's powerful Winweigh weighbridge software, the DD2050 provides a highly versatile control and data management resource.

Weighbridge Software

Winweigh can provide control for a wide range of peripheral control equipment including: automatic number plate cameras (ANPR), card readers, control barriers, traffic lights and radiation detection systems. A key advantage is that Winweigh integrates seamlessly with standard management software solutions including: SAP, Sage, Navision and proprietary waste management software systems.

Weighbridge Design

Weighbridges can be supplied in surface and pit-mount versions with capacities up to 120 tonnes (higher capacities are available for special applications). Their design ensures optimum reliability in the harshest of environments. At the heart of the weighbridges are Weightron's digital CPD or analogue CPR, fully-weld sealed stainless steel load cells, installed using proprietary mounting assemblies. These are designed for optimum load introduction and have proven long term reliability.

Radiation Detection Systems

Minimising the risk of radioactive material entering the waste processing and recycling chains is a major consideration, especially given the growing complexity of the sources of waste material. Weightron's Safeweigh radiation detection system is ideal for installing at the approach to a weighbridge, acting as a critical control point. The Safeweigh system links directly with Winweigh and can be used to check incoming and outgoing vehicles for radiation contamination.

Back to life

With the economy finally picking up, Brian Fisher, Regional Business Manager from Avery Weigh-Tronix advises on how to bring a mothballed weighbridge back to operation.

The recession has left devastation in its wake, with numerous sites and equipment mothballed, perhaps with a view to reopening when times get better.

With a bit of planning and preventative measures at the time of closing down a weighbridge, there should be no real reason why it cannot be brought back to full operation. Even if it was simply abandoned, you may well be able to reopen it and save the cost of investing in a brand new system.

So what do you need to think about as you take a look at that mothballed weighbridge?

Check the pit

The biggest potential problem faced by a disused weighbridge is the build up of mud, slurry and water. If the weighbridge is pit mounted then you will need to arrange a full inspection of the pit, load cells and associated parts.

You need to ensure that the drainage system is not clogged up and that any water and debris has and can drain away. You should also check the pit walls for bulging and seepage.

If the weighbridge does need cleaning out then you must take into account that waste can produce methane and other dangerous gases. Before you do any work you need to check this by using suitably certified gas detectors, both before and during such work.

Loading up

If the weighbridge was properly mothballed, then the load cells and cabling will have been stored and will now need inspecting and testing before they are reinstalled.

If the weighbridge was simply abandoned then this will still apply, but you may need to invest in new parts.

Checking the structure

After this, you will need to examine the physical structure of the weighbridge.

Most weighbridges are constructed from steel so it will need checking for rust, particularly if it has been left sitting in water and the protective coating has worn away. Equally the girder timbers will also need inspecting as will any mechanical parts and, if the weighbridge is surface mounted, then check the safety barriers.



Other equipment that will need inspecting include electrical junction boxes, any barriers, card readers, remote displays, and any driver-operated panels.

Clearly your best advice is to call in a professional service provider to run through all of this on your behalf. It is worth planning this several weeks in advance of any planned opening so that they can complete any remedial repair work.

Accurate reporting

Having checked the weighbridge mechanically and electrically you still need to get it calibrated and re-verified before you can use it as a legal for trade scale.

Ask your chosen service provider about its calibration service. You will need to use an accredited verification engineer who can verify a weighbridge for trade use in order to satisfy trading standards.

The actual calibration will involve a vehicle test unit. For illustration Avery Weigh-Tronix has eight specialist test units, four can calibrate up to 48 tonnes and four up to 44 tonnes.

As part of this calibration the engineer will complete a number of checks across the weighing platform to ensure accurate weighing including an end, middle, end test. This ensures that the weighbridge will weigh a load accurately wherever the vehicle is on it.

Having calibrated and verified that the weighbridge is legal for trade you can then start using it.

This however should not be the end of the story. You need to make sure that the weighbridge continues to operate reliably so that you don't experience any unwanted downtime in the future.

The best advice is to talk to a service provider who can advise you on both a service and calibration schedule and what tasks you can undertake yourself to ensure the ongoing smooth running of your weighbridge.

A weighbridge is a large capital investment so it makes sense to bring existing hardware back into action where possible and then implement a planned service schedule to keep it up and running.

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Main Responsibilities

- The sales development of new and existing business and identifying new opportunities.
- Introducing new products and services to both new and existing customers.
- Inspect, Measure and identify parts for quotation/ordering purposes.
- Develop and maintain healthy relationships with customers.
- Communicate effectively with all company departments.
- Effectively plan appointments to visit customers and prioritize workload.
- Follow up on sales leads and maximise all potential opportunities.
- Gain commitment from customers and optimise both coverage and product intake.
- Update customer information and feedback into the companies CRM system on a daily basis.



- Monitor on account performance and take ownership for the overall development of your regions accounts from sales through to payment terms

Key Skills

- Previous experience of operating in a field sales capacity within the construction/plant hire/quarrying sector
- Presentable in appearance and able to promote a professional outlook.
- Have excellent communication and presentation skills.
- A professional sales approach with a proven track-record of selling spare parts and service.
- A flexible and intelligent approach with an ability to logically plan your area / accounts and prioritise your time management.
- Possess the personality and ability to build relationships at all levels from workshop floor to senior management.
- Possess a good level of pc literacy (ideally with previous CRM experience)
- Able to operate with honesty and integrity with both customers and work colleagues alike.

Should you wish to be considered for the role of Area Sales Representative, please apply via CV to Yvonne Sutherland yvs@mstracks.com 0191 410 5311.



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