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Issue 19

**Global News and Information** on the Bulk Materials Handling, Recycling and Quarrying Industries



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# Over a month has passed since the RWM exhibition, which took place at the NEC Birmingham 13- 15 September, but the feeling of excitement and optimism for the future within this industry is still very much with me.

As an exhibitor and visitor to the show I was truly amazed by the innovative creations and ideas on display, and the potential results that could be achieved to create a more sustainable future.

This year the figures really speak for themselves, with 650+ exhibitors, 13,000 visitors and over 100 speakers came together to make the 2011 RWM in partnership with CIWM the biggest and best event in the UK for the recycling, waste and resource efficiency sectors.

Key speaker Sir Jonathon Porritt CBE who was speaking in the final session at RWM believes: A sustainable world can be achieved by 2050.

He commented: *"I think it's fair to say that I am gobsmacked by this industry...there is an extraordinary pipeline of innovation."*

Furthermore he went on to say: *"Investors see this industry as a very important place where they can see opportunities over the course of the next 20 years. The figures involved are astonishing...it is enormously exciting."*

For 2012, it is expected that the show will increase its focus on all sectors of the waste hierarchy, with dedicated content and features focussing on reducing, reusing, recycling, recovering and disposing of waste.

As part of this, it is planned that the show will include a new social enterprise zone for third sector organisations. For the first time this will give charities and social organisations a platform alongside commercial operators in the recycling sector.

Event director Gerry Sherwood said: *"RWM's strength is its focus on the waste and resource industry, not in being a broader environmental show. By offering networking, knowledge and products at all levels of the waste hierarchy we can be the pre-eminent event in Europe for this important sector. We're keen to focus RWM in partnership with CIWM on the full waste hierarchy for 2012. The new zones will help us to ensure our entire industry has a voice at the show."*

*Furthermore we are keen to hear suggestions on what we could add to make next year's exhibition even bigger and better and how we can make it even more commercially successful for visitors and exhibitors alike."*

**RWM in partnership with CIWM**  
[www.rwmexhibition.com](http://www.rwmexhibition.com)

**Jane Layberry**  
Editorial Manager

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## Autumn 2011

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# Sandvik upgrades its range of mobile crushers

**Radical and innovative design changes to its new models: QJ241, QJ341, QJ331 & QH331**



The combustion engine exhaust gas legislation for Europe and the U.S., which came into force in January 2011, has resulted in the introduction of new tier IIIB/4i engines. Due to the dimensions of the emission-compliant engines and after treatment units, Sandvik has been committed to making the necessary design changes to encase the Caterpillar engines in its range of mobile crushers, whilst continuing to provide their customers with market leading products.

The QJ340, QJ240, QJ330 and QH330 mobile crushers have been upgraded to QJ341, QJ241, QJ331 and QH331 respectively and will be built with a new engine compartment to house either Stage 3A/Tier 3 or Stage 3B/Tier 4i engines depending on the destination legislation. The introduction of this power pack coincides with a number of radical and innovative design changes to enhance performance and serviceability.





**Among the operational upgrades, the new models will feature:**

- New Danfoss hydraulic and electrical control system for greater efficiency
- Full PLC control system and colour screen allowing visual data output and control
- Hydraulically driven cooling fan with auto reverse to back flush dust from radiator
- Proportional control for machine tracking
- Hydraulic raise and lower to the main conveyor on the jaw crushers to give increased clearance for rebar discharge in recycling applications
- New Direct drive on the QH331 for enhanced operational capabilities

**Sandvik customers will also be benefitted with even easier maintenance features:**

- Steel pipe work, for a maintenance free sealing solution and better heat dissipation
- Improved service points: now both sides of the engine enclosure are accessible
- All engine service points are easily accessible with low level drain points
- All hydraulic valves will now be situated at ground level for ease of access



- Diesel tanks and smaller hydraulic tanks are easily accessible from the front platform on the machine with inspection covers

With these new enhanced features combined with the high quality of the products, Sandvik mobile crushers are destined to further cement their leadership in the global market place.

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Sandvik is a global industrial group with advanced products and world-leading positions in selected areas - tools for metal cutting, equipment and tools for the mining and construction industries, stainless materials, special alloys, metallic and ceramic resistance materials as well as process systems. In 2010 the Group had about 47,000 employees and representation in 130 countries, with annual sales of nearly SEK 83,000 M.

Sandvik Mining and Construction is a business area within the Sandvik Group and a leading global supplier of equipment, cemented-carbide tools, service and technical solutions for the excavation and sizing of rock and minerals in the mining and construction industries. Annual sales 2010 amounted to about SEK 35,200 M, with approximately 15,500 employees.



## PIX Europe produce definitive guide to their power transmission product range

PIX Europe Ltd have recently finalised the first edition of the new PIX Product Manual, a definitive guide to the PIX/PowerDrive power transmission component range. The manual has been produced as an essential reference guide for the PIX distribution network, and its customers.

Taking almost two years to complete, it includes full listings, technical details and specifications of the complete range of PIX/PowerDrive belts, pulleys, taper bushes, chain, sprockets, couplings, and much more. The 280 page manual also includes valuable information about drive design, component installation, maintenance, storage and "trouble-shooting". It also gives an insight into belt energy saving potential using different constructions and materials.

In a timely development, the new publication is going to print just in time to feature the new PIX flagship range of Muscle Belts - High Power, Maintenance Free, and Eco-friendly.

Commenting on the launch of the new Product Manual, Operations Director for PIX Europe Stewart Booth said: "As well as being an essential tool for our Distribution Partners, we believe it's likely the PIX Product Manual could become a standard industry textbook over the coming years. We are sure that it will become an invaluable asset to sales professionals, buyers and technicians, working in the PIX distribution channel and beyond."

The premium quality, bound manual can be purchased through PIX Premier Distribution Partners and will be updated bi-annually.



## RDS achieves 'self verification' status.

RDS Technology is delighted to announce they have been accredited with self-verification status enabling them and their network of authorised distributors to accelerate the field verification process for the Loadmaster 9000i on-board weighing system.

The Loadmaster 9000i is a 'legal for trade' weigher enabling product to be sold from the printed ticket.

Typically fitted to a wheeled loading shovel, the Loadmaster 9000i effectively transforms the loader into a mobile weighbridge which conforms to class Y(b) levels of accuracy.

The company's quality system for production, testing and final product inspection was subject to scrutiny by the National Measurement Office with RDS fulfilling its obligations laid down by the Measuring Instruments Directive 2004/22/EC.

With RDS always at the forefront of developing electronic weighing technology and adding value to its product, they are the first to be accredited in the United Kingdom.

Subject to a signed agreement and passing a rigorous training programme, the RDS European distributor network can install LM9000i systems and now also calibrate & verify them suitable for use in Class III commercial transactions.

This will make the installation and calibration process easier and more time efficient for end users.

**For more information on how on-board weighing can be used to help improve your site productivity visit: [www.rdstec.com](http://www.rdstec.com) or mail [info@rdstec.com](mailto:info@rdstec.com)**



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## John Moore has the edge in Quarrying.

John Moore is no stranger to the quarry sector, with several high profile, blue chip clients in the business.

**John Moore (Tractor Parts) Ltd, the Stafford-based parts specialist, has recently invested significantly in new machining facilities to better serve its customers in the quarry and mining industries.**

Now with greatly increased stock levels of cutting edge section materials, including heat-treated Boron with a hardness of HB500, the company is ideally placed to meet any customer requirement for high quality bolt-on cutting edges.

These edges are a high turnover item for many quarrying companies, given the harsh environment in which they see action.

John Moore has been established for over 30 years and has gained a reputation as being one of the UK's leading suppliers of ground engaging equipment and associated parts. Machinery used by the company's customers is seen across the quarrying, mining, construction, demolition and recycling industries.

Unlike much of the competition, the company deals direct with its quarrying end users in the majority of instances. Whereas other companies use dealers to sell and distribute their parts, John Moore is no stranger to dealing direct with its customers. This has a multitude of benefits, from cutting cost, through to ensuring that the customer gets a part which is exactly to specification and a perfect fit for their particular application.

Being the manufacturer, John Moore ensures that all parts are precisely supplied to customer requirements and there are no middlemen involved, meaning a straight forward, efficient transaction and delivery of parts that are right first time, every time. Quality is also paramount in all the company's operations.

The company is a specialist in quick turnaround of cutting edges for quarrying applications, so where a traditional

order from another company may take around two weeks to complete, John Moore can fulfil most orders within two to three days.

Another benefit of dealing with John Moore is in the company's ability to alter parameters of components in house. Each job is unique and tailored to the customers' exact requirements, despite the shorter lead times involved.

Where the company's expertise really comes into play is in its ability to be totally flexible, allowing the manufacture of not only standard cutting edges to OEM dimensions, but bespoke edges to a specific customer requirement, for example, replacing a 4 piece edge with a 2 piece edge, or one single edge, altering hole sizes or changing material thickness.

John Moore's manufacturing facility also produces liner plates and screens for crushing, screening and recycling plants. Using HARDOX 500 plate, the material can be machined with straight, threaded, countersunk, counter-bored or plow-bolt holes in any pattern or configuration to meet any specification.

*"With our stock of cutting edge sections and high-powered machinery plus special tooling, we can now machine steels with a hardness of HB600+"* states Nick Moore, Managing Director of John Moore (Tractor Parts).

*"This eliminates many of the normal delays associated with the process. When ordering from other suppliers, hole pitch variation can occur, as they heat treat after machining. We machine after heat treatment, not before, guaranteeing no variations,"* he added.

**For a copy of John Moore's latest Product Catalogue, which gives an overview of the company's 40,000 plus product range, please contact the sales team on 01785 282705 or email: [sales@johnmoore.co.uk](mailto:sales@johnmoore.co.uk)**



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## Bollegraaf wins Groninger Ondernemingsprijs 2011

**Bollegraaf Recycling Machinery is the winner of the Groninger Ondernemingsprijs 2011, the Groningen Award for Entrepreneurs.** The jury, consisting of government representatives and fellow entrepreneurs, commended Bollegraaf for its successful innovation and export strategy in particular; they have turned Bollegraaf into a leading company in the recycling industry over its 50 years of existence. The founder, Hartog Bollegraaf started by producing recycling machines in Appingedam. By the end of the 1980s, Bollegraaf successfully expanded its territory with its own sites in important markets, including Germany, France, Spain, Great Britain, and the United States.



During the 23 years the current Director Heiman Bollegraaf has been at the helm of the company, there has been further internationalisation. Under his leadership Bollegraaf distinguished itself with turnkey sorting systems for the recycling industry. Innovation has always been an important element of the Bollegraaf strategy; it has made Bollegraaf the technical benchmark in the global market. Its successful strategy has enabled Bollegraaf to gain international recognition as a solid partner for the recycling industry. At a regional level, the company has generated employment for many decades, making an important contribution to the Northern Netherlands' economy. Bollegraaf would like to thank all its clients and employees for their share in this success. The award is the pinnacle of 50 years of entrepreneurship and adds one more festive element to this anniversary year.

The award was presented to Heiman Bollegraaf, CEO of Bollegraaf Recycling Machinery, by the Queen's Commissioner for the Province of Groningen, Max van den Berg, during a live TV broadcast. The jury report applauds Bollegraaf for its solidity and innovative power, its modern personnel policy, its vision of the international territory, and it's clear choices and focus: 'Bollegraaf does what it does best and improves continuously'.

**For more information about the award and the jury report, please visit [www.ondernemingsprijs.nl](http://www.ondernemingsprijs.nl)**



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## Kilrea company invests £1 million in year of significant growth

**SJC Hutchinson Engineering in Kilrea, who are laser cutting specialists, has much to celebrate in their 40th year of trading.**

They have invested almost £1m in a new state-of-the-art laser cutting machine and expert training programme for their staff.

They have created 10 jobs and plan to expand their plant by 11,000 sq ft making it one of the largest plants of its kind in Ireland.

Mark Hutchinson, Managing Director of SJC Hutchinson Engineering said: "We couldn't have imagined that after 40 years in business and having faced some of the most challenging market conditions in living memory that we would be recording a significant year of growth, so far, at SJC Hutchinson Engineering.

*"Our new tube laser cutting machine has given us an important competitive edge allowing us to take on more jobs, speed up the manufacturing process and keep costs down for our customers."*

The company has adopted a 'lean manufacturing' stance in conjunction which its clients who are based in the coach building, agricultural and quarry industries, throughout Ireland and the UK.

*"We knew that to survive the recession and grow the business we had to be bold in our thinking and competitive with every aspect of production".*

*"The decisions we made, such as investing in expensive new machinery and expert training, have set us on a path of growth that we intend to build upon.",* said Mark.

By the end of 2011, the company will have 3 flat-bed laser cutting machines, costing £700k each, and is the only company in Ireland to have a 3D tube laser cutter, costing £800k.

Mark continued: "Our technology and know-how means we are a solutions focussed company who, because of our continuing investment in our infrastructure, can offer a competitive and holistic approach to laser cutting jobs."

**SJC Hutchinson Engineering is based in Kilrea and can be contacted on 028 2954 0302 or via email [info@hutchinson-engineering.co.uk](mailto:info@hutchinson-engineering.co.uk) or their website [www.hutchinson-engineering.co.uk](http://www.hutchinson-engineering.co.uk).**



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# Construction Recycling Alliance Awards 2011



**The Construction Recycling Alliance (CRA) is pleased to announce the winners of its 2011 Recycling Awards. The 2011 Awards comprise of six categories; Recycling Company of the Year, Recycling Contract of the Year, Service and Support, Equipment Innovation, Product Innovation and Investment. CRA members and Approved Suppliers were invited to submit entries for each relevant category, with the final decisions being made by a panel of independent judges including academics, journalists and government policy makers.**

The strength and quality of the submissions ensured the role of the judging panel was never going to be easy with Les Andrews of Surrey County Council remarking, "It was difficult to make recommendations for the CRA's Awards....deciding the Crème-de-la-crème is never easy". Despite this, the judges were able to decide on a winner for each of the six categories.

## **Recycling Company of the Year - FM Conway**

FM Conway's impressive recycling performance, ongoing investment and

commendable environmental ethos helped ensure success in this highly competitive category.

The company's ability to recycle a wide array of materials in-house, including 100% of highways arisings into new aggregates, 100% of asphalt into new 95% recycled content asphalt has ensured some 250,000 tonnes of waste is being diverted from landfill, 220,000 tonnes of recycled products supplied to sites and over 220,000 tonnes of virgin aggregates are saved every year.

FM Conway has also developed a 95% recycled binder and surface course, which exceeds the 40% recycled content of the material used by its competitors, at a similar cost.

The judging panel believe that FM Conway 'has made a significant investment in their processes and developed a wide client base for their recycled products. There is huge potential, especially with more and more Local Highway Authorities recognising the benefits of the company's processes' and the FM Conway's work was deemed "Commendable throughout".

## **Recycling Contract of the Year - Downwell Demolition**

The dismantling and demolition of the Warner Brothers' Leavesden film studios by Downwell Demolition demonstrated to the judges the company's commitment to recycling when undertaking large-scale, time critical contracts.

Operations included the on-site recycling of concrete and rubble with 20,000m<sup>3</sup> of concrete and rubble separated from demolition waste arisings, crushed and screened in order to produce 6F1 and 6F2 specification secondary aggregate for re-use on site. Recycling material in-situ minimised the number of lorry movements to and from site, diverted waste from landfill and reduced the quantity of virgin aggregate required for subsequent development. Other material including wood, plastic and metal was separated on site before being removed for recycling. Overall recycling rates exceeded 97%.

Judging panel remarks included, "The team effort displayed by Downwell Demolition's management, operatives and labourers culminated in a truly impressive recycling rate".

## **Equipment Innovation Award - International Innovative Technologies Ltd**

International Innovative Technologies' new milling technology proved to be the strongest contender in this category with the equipment capable of meeting the fine grinding requirements of construction minerals and manufactured materials that were previously regarded as uneconomic. Such applications have proved successful in recycling glass and plastic waste and also in limestone quarrying operations where sub-6mm sized material previously regarded as waste can now be converted into commercially marketable powder products.

Not only did IIT's grinding equipment attract praise from the judges for its 'true versatility' but also for its 'energy efficient credentials' with the equipment using up to ten times less electricity than conventional milling technologies.

## **Product Innovation Award - FastFence**

The Product Innovation Award proved to be one of the most competitive categories with FastFence's Greenhoard® product proving successful. Greenhoard® is manufactured from low grade, mixed waste plastic and is a reusable replacement for plywood site hoarding which is typically landfilled after use. Greenhoard® can be used multiple



times and ultimately recycled into new sheets therefore offering end users a sustainable, closed-loop solution for their site hoarding requirements.

FastFence was complimented by the judges for its *'Innovative site hoarding solutions supported by a comprehensive management service which recognises the importance of reducing the carbon footprint at every stage of the construction process.'*

#### Service and Support Award - CDE Global

The judging panel awarded CDE Global the Service and Support Award based on the company's Custom Care support package afforded to all CDE Global's customers.

CDE Global design and manufacture washing equipment for application in a range of including construction & demolition waste recycling. Its Customer Care offering provides a suite of services designed to help customers maintain optimum production levels and plant efficiency. The package includes essential support services such as parts and spares, servicing, preventative maintenance, warranty and training. The entry was supported with testimonials from CDE Global's end-users who highlighted the company's 'Impressive experience' and 'continuity of contact' before, during and after the installation of its recycling machinery.

#### Investment Award - O'Keefe Utilities Ltd

O'Keefe Utilities' investment in a bespoke processing plant to allow trench arisings from utility work to be reused was the key factor in the company's success in this category. The new plant has enabled the extensive use of SMARTR® - O'Keefe Utilities' in-house process that provides recycled material to replace a traditional MOT Type 1 which is designed to achieve the performance of a Structural Material for Reinstatement (SMR), as defined under the SROH. This alternative reinstatement material is known by its trade name; PAVIMENTUM (PVI).

Since commencing operations, the plant has generated over 60,000 tonnes of PVI which is manufactured in accordance with the British Standard for the production of a Hydraulically Bound Material.

The judges deemed O'Keefe Utilities' investment in the processing plant as *'developing an environmentally sound concept and applying it successfully on a grand scale'*



## Volvo Construction Equipment Division wins Gold for the second time

**Volvo Construction Equipment Division, Volvo Group UK Ltd has won a Gold award in the prestigious RoSPA Occupational Health and Safety Awards 2011.**

The Royal Society for the Prevention of Accidents (RoSPA), a safety charity, launched its awards programme over 50 years ago. The scheme looks not only at accident records, but also entrants' overarching health and safety management systems, including important practices such as strong leadership and workforce environment. In winning the RoSPA Gold Award for its second year, Volvo Construction Equipment Division has demonstrated a very high level of health and safety performance, including well developed occupational health and safety management systems and culture, outstanding control of risk and very low levels of error, harm and loss.

Among the highlights of the audit carried out by a panel of independent health and safety professionals, the Company has demonstrated the following:

- Excellent occupational health and safety management systems (e.g. systems used and levels achieved - OHSAS 18001 or equivalent)
- Strong health and safety culture (as demonstrated by answers to Key Performance Questions)
- A rigorous approach in its leadership to occupational health
- High levels of compliance with control measures (evidence from active monitoring of performance) for principal risks
- Below average and reducing rates of error (e.g. near misses), harm (accidents and work related ill health) and loss (e.g. accident and ill health costs)
- No fatal or major injuries due to employer negligence
- No significant enforcement issues (notices or prosecutions)

*"It is particularly pleasing that the Company was able to win the RoSPA Gold Award in a consecutive year whilst undergoing a change of the health and safety management, indicating that that the health and safety culture in the company is recognised as an integral part of the business"* said Jonathan Hurley, Volvo CE's Business Process Manager. *"Our commitment to continual improvement will ensure that our health and safety management system retains its reputation as one of the strongest in the industry and enable us to achieve our target of winning the award for a third time in 2012"* he continued.

Volvo Construction Equipment Division markets wheeled loaders, articulated haulers, hydraulic excavators, graders, Volvo utility equipment and Volvo road machinery products in the U.K. There are eight strategically placed customer support centres located at Stirling, Immingham, Warrington, Birmingham, Treforest, Woking, Duxford and Newcastle.



## Kingfisher achieves both in house & onsite compliance for its wear protection operations at annual IMS audit.

Leading UK wear protection specialist, Kingfisher Industrial, has just passed its annual integrated management system (IMS) audit with flying colours, maintaining its registration to three key management standards: ISO

9001:2008, ISO14001:2004 and OHSAS18001:2007 that underpin the company's quality and environmental commitments to customers.

"We are delighted that our annual audit has confirmed our continuing registration to these demanding standards," said Kingfisher MD, John Connolly. "Within our industry there are not many of our competitors that are able to, or have instigated, compliance across these areas. In contrast, Kingfisher is one of a very select few that is registered for both in-house and onsite activities, which is a real unique selling point for our company and a real security for our customers."

The successful audit was conducted by Chamber Certification Assessment Services Ltd (CCAS), a well established international provider of accredited registration schemes for management systems. The citation drafted by Nicola Beckett, Lead Auditor for CCAS stated as follows.

"The assessment has concluded that the company continues to maintain an effective IMS in accordance with ISO 9001:2008, ISO14001:2004 and OHSAS18001:2007 and its documented processes and procedures. In order to enhance the IMS, the company has invested in the help of an external consultancy who have re-written the IMS and provided total impartiality and objectivity with assistance in the internal audit process and Management Review. The management team have demonstrated their commitment and understanding of the requirements of the standard and evidence of continual improvement was seen."

"Standards compliance is of fundamental importance to our business, as many of our blue-chip customers would not employ us without it," said John Connolly.

"As regards our in-house and on-site activities, our customers need some point of reference when we are undertaking projects consisting of design, manufacture, protection and installation of process plant and equipment ensuring both national and international engineering codes of practice are being adhered to ensuring total compliance throughout."

"Here compliance is essential, especially so in our case, because Kingfisher, unlike many of its competitors, undertakes the majority of production activities in-house, employing modern efficient machinery and our own skilled workforce. This allows us to respond rapidly to customer needs without reliance on outside resources".

Our on-site registration also evidences the fact that we continue to display a detailed understanding of the installations that we encounter by overcoming the challenges of the surrounding environment and the associated hazards and risks. Bespoke site surveys and close customer liaison allow us to assess the risks and plan the execution with minimum impact on plant and other operations.

Having suitably qualified staff, we are able to limit the potential of downtime and the risks associated with undertaking either mechanical or structural operations. With personnel qualified in CDM, NEBOSH, IOSH, Quality & Environmental control and manual disciplines such as lifting and operation of plant and equipment (in compliance with LOLER and PUWER regulations), we maintain total control throughout the contract life cycle. Whether it is the installation of plant or the erection of processing equipment and structures, we adopt the same approach towards risks and employ measured contingencies that become apparent once the contract starts to ensure the key milestone objectives defined at the outset are achieved.



## Pix hose & fittings awarded prestigious lloyd's register type approval

In its quest to be recognised as the world's premier medium to high pressure hose manufacturer, PIX has recently been awarded the Lloyd's Register (LR) Type Approval. This is another 'feather in the cap' for PIX as it already has DNV, GL and MA approvals for its products, among several others.

The LR Type Approval is an independent third-party certification, which attests a product's conformity with specific standards or specifications, and the verification of an appropriate production quality system. This approval is highly desirable for products used in marine and offshore applications, mining, drilling and industrial plant and processes.

Upon receipt of the certification, Operations Director for UK based PIX Hydraulics (Europe) Ltd, Karan Sethi said: "This is another testimony to the quality and performance one has come to expect from PIX. We are thrilled to receive this certification as it will give our customers added peace of mind when using our products in safety critical applications."

The range of PIX products that have achieved LR Type Approval include the Performer, Prokomp, Optimal, Thermal, Ultraflex, Impetus, Hi-Pulse and Armour branded hoses.

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# Terex® TL260 wheel loader wins J & J Stanley's approval

Compact machine fits the bill at new waste transfer site

**Tankersley, England, October 2011 – So impressed was J & J Stanley Ltd. with the Terex® TL260 wheel loader demonstrator it had on trial that managing director Gordon Stanley told Terex Distribution Limited (TDL): "Don't bother to send a truck to collect the machine, come and pick up a cheque."**

J & J Stanley runs waste and recycling facilities in the Tyne & Wear area and was looking for a wheel loader for its new 2.5 acre waste transfer site. Having tried all the contenders, the company's machine operator, Albert Perkins, had no doubt that he preferred the Terex® TL260.

*"We wanted a compact machine for sorting and stockpiling, and also to load wagons and the plant with wood, soil, construction waste, paper, cardboard and household refuse," says Mr. Stanley. "The Terex® TL260 is more compact and nippier than the competition, has excellent visibility for the operator and is very good on fuel," he adds.*

With its 2.6m<sup>3</sup> general purpose bucket on the ground, the 14.4 tonne TL260 has an overall length of less than 7.25 metres and a turning radius of 6.15 metres (at outside bucket edge). Its load-dependent hydrostatic fan helps reduce both fuel consumption and noise and is reversible too – especially useful in waste environments - while the unique cleaning system simplifies maintenance.

The TL260 is powered by a 128kW Cummins engine which transfers power to a two-speed hydrostatic transmission – another feature Mr Stanley likes as, unlike a mechanical gearbox, it helps hold the machine on a slope. The self-locking differentials reduce tyre wear and the all-round wet disc brakes also reduce maintenance.

At the front end, the loader's SP kinematics combine the advantages of a Z-linkage with a parallel lift action to provide a lift capacity of 141kN with almost 120kN of bucket breakout force. J & J Stanley's machine has a dump height of almost 3m and there are also options available for the TL260 to boost this beyond 4.5m.



In addition to the excellent view from the two door, rubber-mounted ROPS/FOPS cab, machine operator Albert Perkins appreciated the hydraulically cushioned and weight-adjustable seat, automatic climate control and the height/tilt adjustable steering wheel.

John Crerar, TDL's Materials Handling Sales Manager said: *"The standard specifications of the Terex TL260 wheel loader to operate in a tough waste-handling environment without any modifications demonstrates the high degree of capability and quality designed and built into our products."*



[www.hub-4.com/directory/12600](http://www.hub-4.com/directory/12600)

## About Terex

Terex Corporation is a diversified global manufacturer operating in four business segments: Terex Aerial Work Platforms, Terex Construction, Terex Cranes, and Terex Materials Processing. Terex manufactures a broad range of equipment for use in various industries, including the construction, infrastructure, quarrying, mining, shipping, transportation, energy, refining, and utility industries. Terex offers financial products and services to assist in the acquisition of Terex equipment through Terex Financial Services. More information on Terex can be found at [www.terex.com](http://www.terex.com).





## Metal Detection Helping To Improve UK Battery Recycling

**The UKs' Battery Recycling Industry is one of the fastest growing sectors of waste recycling.**

With many recyclable materials, the issue of sending waste to landfill is based mainly on its unnecessary use of landfill space. However with batteries, the chemicals which may be contained within the cells can include lead, mercury or cadmium, all of which can leak into the ground causing pollution to the local soil and water.

Not only do batteries pose a significant threat of pollution to landfill sites and the surrounding areas but recycling them can also help to recover valuable metals such as nickel, cobalt and silver.

For this reason, many schemes such as the 'be positive' collection points, are being put into place to help the UK increase its battery recycling rate from its recently low level of 3% to the 25% it is expected to reach under the EU Batteries Directive by 2012. This rate is then expected to hit 45% by 2016.



For many battery processing applications, particularly with automotive battery recycling, large hammer mills are used to help break down and separate the various materials to metals plastics and sulphuric acid which can then be sold to re-processors. Unfortunately, as is often the case with many

crushing applications, large tramp metal contaminants can appear within the product stream which can cause significant damage to the hammer mills, costing the plant thousands of pounds in repair costs and downtime. An efficient and cost-effective way to prevent this from happening is to install an industrial metal detector. The TN77 'Tunnel Type' Detector from Metal Detection Ltd is the ideal solution to the problems of tramp metal in the recycling process. The TN77 will detect ferrous and manganese tramp metals but will overlook the metallic elements present in the batteries, therefore reducing unnecessary stoppages in the system. The TN Search Coil is completely encapsulated in fibreglass to prevent damage from battery acid and the control panel can be supplied inside an additional cabinet to provide IP66 level protection.

For more information on the complete range of Detection solutions from Metal Detection Ltd, please do not hesitate to contact us.



[www.hub-4.com/directory/541](http://www.hub-4.com/directory/541)

## TDE invest in a McCloskey R105 Finger Screen

**J.White and Co (TDE) Ltd, based at Rotherham in South Yorkshire has taken delivery of a new McCloskey R105 Finger Screen from the UK distributor, Tamworth based, Aggregate, Processing and Recycling Ltd (APR)**

This is the second screen of its type that J.White has invested in, choosing a McCloskey R105 as it was considered to be a cost effective and reliable machine.

J. White are a family business employing 45 staff and have become one of the leading operators in the region offering a diverse range of services including the bulk excavation and removal of materials from working sites to landfill areas. The company, as well as operating their own fleet of trucks also supply and deliver materials to site, including top soil, sub-soil reliability. Weighing in at 23,000 kgs the R105 is one of the most robust and durable machines on the market offering the highest stockpile and largest screening area in its class, and meeting the European transport regulation width, the R105 represents the most cost effective productivity and quality on the market. Jason White-Managing Director, commented, "We chose a McCloskey machine because they are recommended within our industry and are considered very reliable performers. Backed by a professional parts and service package supplied by APR we feel very comfortable that the machine will be a cost effective workhorse for our company."



APR at their Tamworth headquarters employ all their own fully trained service staff within an 18,000 sq. ft. workshop facility complete with all the necessary equipment to service, or if necessary manufacture new parts on site. APR, having full control of staff and facilities allows the company to operate at maximum efficiency, offering a total after sales service package.



[www.hub-4.com/directory/33](http://www.hub-4.com/directory/33)





## Innovation at the construction yard with the MB crusher bucket

It has been 10 years since MB, the Vicenza-based company world leader in its sector, made available to the earth movement world a piece of equipment with unquestionable qualities: the crusher bucket, a

hydraulic machine that works by taking advantage of the excavator system and can be used in many fields of application.

Today, MB's crusher bucket has crossed all borders, from the Far East (the company recently opened a branch in Japan) to the "Stars & Stripes" States (where another branch was opened) all the way to South America and Oceania, and did not stop even when faced with the cold stones of Siberia or the burning hot ones of Nigeria.

So, to all companies operating in the earth movement and construction sector, the MB crusher bucket has become a *"must have"* piece of equipment if they want to improve their work process and increase their profits.

There are many accounts by customers who have found in MB's equipment a reliable partner that lasts a long time, with little maintenance, easy to transport and that does not take up a lot of space at the yard.

Of all the various fields of applications, the qualities of the MB crusher bucket turn out to be especially useful during excavation and filling jobs.

Usually, during excavations and the jobs that follow, the soil must be dug up, the debris material loaded onto trucks and taken to the nearest dump for disposal, with the trucks then returning to the worksite and so on. The excavation site must then be filled in again, thus requiring other trips to the waste dump, but this time to purchase the same material that was dumped just a few days before, which in the meantime has been crushed and prepared in the right size to fill in the trenches. Obviously, the material must be paid for and hauled to the worksite.

Everything becomes simpler and less expensive by using an MB crusher bucket, which reduces all costs and times needed for the disposal and procurement process, up to fully eliminating them.

In fact, the material is already at the worksite, where it can be reused after having gone through demolition processes using pneumatic hammers and pliers. Subsequently, with the MB crusher bucket the material is collected and crushed in the desired diameter and unloaded directly by the bucket onto the truck or in another location, and can thus be used again, for example, to build yards, road embankments, drainage works and to fill in various excavations.

The MB crusher bucket is especially useful for laying special piping in difficult soil. After the excavation and the laying of the piping, the site must be filled in again, thus requiring other trips to the waste dump to purchase the same debris material that was dumped a few days before, crushed and prepared in a size suited to filling in the trenches. Thanks to the MB crusher bucket, all this work is reduced. There is something else to keep in mind: the fact that the excavation or trench is filled in with the same material that was previously excavated means that the location is formed by the same elements.

Choosing a crusher bucket, then, allows you to save time and money, at the same time boosting your profits: the crusher bucket is easy to transport, has low maintenance costs, does not require an additional operator other than the one who operates the excavator, and saves fuel that would have been used up by a mobile crusher, which would in any event be powered by an excavator. Not to mention the environmental *"cleanliness"* of jobs carried out with a minimum amount of dust and noise levels with low environmental impact.

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



[www.hub-4.com/directory/14417](http://www.hub-4.com/directory/14417)





# Viridor adopts “a next generation” shredding system

Provided by size reduction technology specialist Fercell Engineering Limited - WEIMA UK, leading recycling, renewable energy and waste management UK company Viridor has installed a new generation single shaft shredder - the WEIMA SPIDER HRS - at its Crayford Materials Recycling Facility (MRF) in Kent.

Renowned as one of the largest and most efficient in Europe, Viridor's 300,000 tonne capacity Crayford MRF applies advanced technology to sort and recover commingled recyclable materials from local councils and businesses. These quality materials are then sold on as raw materials for the manufacturing of new products and packaging.



Dave Fitzgerald, Viridor general manager for Greater London, said: “We're constantly looking to expand the range of materials that can be accepted at our recycling facilities to help our customers improve their environmental performance by recycling more. With the installation of the latest WEIMA Spider HRS shredder, we can offer our customers the inclusion of hard rigid plastics - including utility pipes, polypropylene crates and trays - within the commingled mix for processing as well as acceptance of single-stream hard rigid plastics.”



The new shredder enables Viridor to process heavy plastic materials by polymer type to a 25-50mm fraction, thus increasing potential revenues and strengthening its ability to market this material.

Fercell Engineering Limited - WEIMA UK, UK sole distributor of WEIMA shredders and briquetters, sees this installation as a fitting milestone in celebrating a fifteen-year association with WEIMA Maschinen GmbH.

“There are more than 900 current WEIMA applications in the UK”, commented Colin Irons, national sales manager. “We are pleased that Viridor has adopted the WEIMA Spider HRS for its new hard plastics shredding operation. The recycling market continues to be one of the most demanding and we have seen a definite change to the criteria considerations during the procurement process in new capital plant. Viridor's adoption of this truly revolutionary machine will help the company lower operating overheads, reduce maintenance downtime cycles while delivering a multi-tasking capability across differing materials.”

In answer to changing industry demands, the single-shaft WEIMA Spider HRS shredder, designed and developed by German engineering giant Weima Maschinen GmbH and first shown at the recent Dusseldorf plastic industry “K Show”, introduces a unique and innovative modular construction offering greater flexibility and an extensive list of new inclusions and improvements.

**The Weima Spider 1500 is now available ex-stock UK. For more information about Fercell Engineering Ltd - WEIMA UK products and services call 0870 428 2688, visit [www.weimauk.com](http://www.weimauk.com) or watch the video.**



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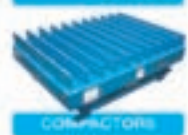
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# Anaconda secures UK distributor!

Recycling Equipment Solutions (RES) UK has recently taken delivery of their first tracked screen from Anaconda Equipment International of Northern Ireland. RES UK agreed exclusive dealership rights to the full range of Anaconda Equipment back in July of this year and exhibited the tracked trommel screen at the RWM Waste Management Exhibition in Birmingham in September where it was sold off the stand. Sean Reilly, Managing Director of RES, is delighted with the new partnership and is confident the offering from Anaconda Equipment will be well received in the UK:

*"We have been in the market for a screening supplier for some time and were delighted when Anaconda approached us to consider taking on their product range for England and Wales. The agreement was put in place very quickly and during a trip to Anaconda's factory in Northern Ireland we were impressed by the products on show. We were very impressed with the overall quality of the screens and conveyors and we are confident that the UK will be a good market for both of us"*

RES UK has their head office in Neath, Wales and also operate from 2 yard facilities in England. They have a number of product lines including wood shredders and aerosol recycling systems and, up until now, worked solely in the recycling markets. With the addition of the Anaconda range, RES will work with existing customers as well as developing new business in the waste recycling, quarry, sand/gravel and coal industries. Sean Reilly commented on the expansion plans for his business by saying:

*"This range of screeners and conveyors will allow us to expand our current workforce and grow our business in new sectors. The interest we have received in the products in such a short space of time cements the decision we took to work with Anaconda. We have a lot to do and the market conditions are certainly not ideal but the value for money offered by the Anaconda range will appeal to anyone looking for a quality screen or conveyor."*







Anaconda Equipment has been manufacturing conveyors and screens since 2005 and has been distributing worldwide since 2008. The range of screens includes a DF410 scalping unit, a conventional SR410 sand/aggregate screen and a TD516 trommel screen. The range of conveyors includes 50ft, 60ft, 75ft and 80ft options with various belt types and widths. All screen and conveyor units are available on tracks or wheels.

Commenting on the recent partnership with RES UK, Con Gallagher, Sales Director with Anaconda concluded:

*"I am delighted to have RES UK representing us in the UK and look forward to a long and mutually beneficial relationship. Sean has been working for quite some time in the recycling sector and is very well known in the industry. Having worked in the UK a number of years ago, I appreciate the potential that exists with products of this nature. Sean and his team are very professional and enthusiastic about the range and I have no doubt that together we will establish a good market for ourselves."*



Anaconda's range of equipment can be found working around the globe from New Zealand to the US and South Africa to Sweden. In just over 2 years, Anaconda has established a network of almost 60 distributors thus highlighting the level of interest in 'compact' or 'entry level' screens.

Anaconda plans to continue focusing heavily on the compact product market and has found many distributors willing to take on the range around the globe. They are confident recovering markets in Europe will help maintain the growth and, with a promise of further product enhancement and new product development, the future for Anaconda is certainly promising.



# MRF Systems from Blue Scotland for two Recycling Specialists

Two leading recycling companies in Scotland have recently installed bespoke MRF systems, designed, supplied and installed by Blue Scotland. Both organisations are long-standing customers and report that their new recycling plants are performing well.



EIS Waste Services of Aberdeen already operates a Kiverco system from Blue for “heavy” materials processing and has added the new MRF for “light” construction, commercial, industrial and trade waste. Rigid plastics, polythene, wood, plasterboard, textiles, paper and card, plus scrap metals are all being reclaimed and the whole system is under cover within a custom built building.

The EIS recycling plant consists of a number of innovative technologies, combined together in a bespoke design for optimum material flow and separation, resulting in clean saleable recyclables. The added bonus is that, through meticulous separation, tip-to-landfill deliveries have been significantly reduced by up to 65%, saving transport and landfill costs as well as greatly reducing environmental impact.

A hopper and belt feeder receives the incoming raw waste which is fed by conveyor to a Kiverco 820 trommel with 25mm screens for removal of fines. The remaining material then passes through a Kiverco sorting station for manual separation, then passes under an end-of-line overband magnet for removal of ferrous metals. Additional dropout bins located at each bay on the sorting line receive additional recyclable items such as non ferrous and glass bottles. The station has an infinitely variable speed and extra-wide conveyor belt and is contained within a spacious heated and well-lit cabin for maximum operator comfort and security. A blower system has been installed at the extreme end of the MRF to offer maximum flexibility when further clean up of material is required.

EIS is an Aberdeen based company owned by the Sharp family. Operations Manager Colin McDonald expressed their satisfaction with their new MRF. *“This plant is performing well and allowing us to reclaim at even better volumes and produce cleaner end products through our recycling of lighter materials. Blue Scotland has been invaluable in helping us select and install this new MRF and we appreciate their expertise in both the sales and after-sales aspects of our long relationship.”*

In Glenfarg, Perthshire, another independent and family-owned recycling specialist - Binn Skips - has also invested in a new MRF from Blue Scotland and which forms part of a large Eco Park development project. This follows recent



purchases of a General Kinematics grizzly feeder and a Doppstadt DW-3060 shredder from Blue Scotland, both of which feed pre-shredded and pre-screened materials through the newly installed MRF system.

Binn Skips' plant accepts the -150mm shredded and screened commingled waste into the primary Kiverco 820 trommel, which is equipped with 15mm and 50mm split drum screens for fines removal. The screened out material then passes through an air separator for “lights” removal and then on to the 4-bay Kiverco picking station for hand sorting, with an overband magnet at the end of the conveyor for safe removal of ferrous metals. In addition to a high quality, clean range of end products from the new plant, Binn Skips is also producing an ideal woodwaste fraction from its Doppstadt shredder for RDF materials, as well as excellent greenwaste for composting, which is shredded, windrowed and 10mm screened to high specification for this particular purpose.

Binn Skips is owned by the MacGregor family with Allan MacGregor heading up the company. Iain Taylor is Head of Operations at Glenfarg and reports that their new plant is living up to expectations. *“We've already seen a marked increase in reclaimed volumes through our new MRF and a most gratifying reduction in tip-to-landfill. Blue Scotland has looked after us extremely well throughout the development of our recycling plants and their after sales product support has been excellent, cementing our continuing working partnership with this specialist distributor.”*





Blue Scotland offers the waste management industry a wide range of shredding, composting, screening, crushing, recycling and conveying equipment for the efficient and cost-effective processing of all waste streams. The increasing demand for bespoke MRF systems for processing mixed waste continues to be a growing market. Such is the size and compatibility of the machinery ranges for which Blue Scotland is an appointed distributor, that productive and efficient plants can be created by combining separation, stockpiling, sorting and conveying equipment to produce an optimum recycling solution to suit not only the waste streams to be treated but also the constrictions of designated site areas. Blue Scotland's in-house teams of designers and engineers can provide tailor-made systems for all types of waste treatment, recycling and reclamation.



## Max X Tract - Does exactly what it says on the Tin

**777 Recycling Centre Ltd, the waste management arm of one of the UK's best-known demolition contractors, is maximising its materials recovery operations with a pair of Max X Tract Density Separators supplied by Cheshire-based Dig A Crusher.**

The 777 Recycling Centre just outside Croydon in South London features a state-of-the-art processing and extraction system that comprises multiple levels of screens, trommels and manual picking stations to extract valuable resources from the waste stream. That waste stream - a mix of construction and demolition and skip waste - arrives at the facility at a rate of more than 4,000 tonnes per week, and is converted into a wide array of products from refuse derived fuel (RDF), ferrous and non-ferrous metals and plastics for onward processing, and a range of crushed concrete and aggregate products for reintroduction to the UK construction industry.

But, according to Operations Director Malcolm Beattie, there was something missing. *"All of our equipment is to the highest standard and our manual picking crew were exceptionally good at ensuring that we extracted metals and other products for resale,"* he says. *"Yet despite this, we knew that some valuable products were not being recovered quite as effectively as we would like."*

### Resource Extraction

The solution came in the shape of a pair of Max X Tract Density Separators that now form the final stage in 777 Recycling Ltd's resource extraction process. Manufactured by Waste Systems Ltd, the Max X Tract is fully self-contained and is ideally suited to applications that require metals to be recovered from or plastics and paper removed from bio-mass material, thereby a perceived waste product into a saleable asset.

Weighing just nine tonnes, the Max X Tract uses a one-pass system to process up to 150 tonnes/hour, depending upon the feed material.

At the 777 Recycling facility, the first Max X Tract unit receives material from a trommel via an elevated conveyor. The first pass through the first Density Separator segregates the light and the heavy materials; the light being destined for RDF applications, and the heavier materials moving on for further processing to the second Max X Tract. Here the final clean up occurs where wood gets separated from the aggregate ensuring two high quality end products. The first Max X Tract effectively removes any remaining metals, both ferrous and non ferrous, from the waste stream. According to Beattie, this is a vital part of the process. *"With scrap values currently at an all-time high, every ounce of metal we can extract has a value,"* he asserts. *"Since we installed the Max X Tract Density Separators, we are recovering an additional four tonnes of metal each week on average, so the machines will pay for themselves in no time."*

### Further Cost Savings

But the added value doesn't end at the recovery of metals. Before the two Dig A Crusher machines were installed, 777 Recycling employed a team of 14 pickers to manually pick their way through the waste in the hope of extracting some additional value from the stream. Since the Max X Tract machines were installed, the company has been able to reduce this team to just six people, while actually increasing recovery rates. *"Our pickers are very good but, ultimately, they are human and the speed with which they're required to work to keep up with the waste inputs means they're always likely to miss some potentially valuable materials,"* Malcolm Beattie concludes. *"We have no such problems with the Max X Tract machines. They're more than capable of keeping pace with our waste inputs and they literally don't miss a thing. The increase in our metal recovery rate speaks for itself."* By removing the metals and aggregates the wear on the high speed shredders has reduced by over 70 percent. Now only the RDF material goes into the high speed shredder, giving less downtime and significant operational savings.

**Further information from Sean Heron, Dig A Crusher. Tel: 01606 835544**





## Ultra Trommel success at RWM 2011

Ultra Plant International, UK manufacturers of the mobile T-1500L range of trommel screens enjoyed much success at the recent RWM 2011 show in Birmingham.

New and existing customers were introduced to the T-1500L series high output trommel screen, capable of screening materials at rates of up to 90 tph. At present this is the largest mobile trommel screen Ultra Plant has available, and they are looking forward to having it share similar success to the standard T-1500 Ultra Trommel screen.

*"The T-1500L series offers a step up in production from the T-1500, whilst still offering our customers a high quality, high value end product. We will be offering demonstrations of the T-1500 following this tradeshow, and are looking forward to the prospect of offering a high output trommel solution to our potential customers".*

The team at Ultra Plant went on to enjoy sales success at the show, managing to deliver sales not only in the UK, but also abroad in some existing and new markets.

The T-1500L trommel Ultra Plant Exhibited at the RWM show was purchased by Ipswich shipping services company Clarkson's PLC. Nigel Wood, operations manager at the Clarkson's Ipswich depot had been looking for a mobile screening solution for some time before deciding to go with the Ultra T-1500L Trommel.



Ultra T-1500 taking cleaning fines from skip waste at 30mm

*"We had been using quite a large tracked vibrating screener, and whilst it was productive, the unit had quite a large footprint and the end product was not consistent. It was also taking up a lot of space. At a busy port, this can make operations difficult, and so we needed to look for a more compact better quality screening solution. I had a look at what was available on the market, I called Ultra Plant, they arranged a demonstration of their mobile trommel, and it seemed to tick all the right boxes"*

### Nigel Wood, Clarkson's Port services Ipswich Depot

The T-1500L trommel at Clarkson's will be mainly used in screening materials contaminated during shipping in order to prepare a high quality product for market. The trommel, powered by a three cylinder Deutz engine can screen materials from 70mm to 3mm, is a fully mobile system, has a 3.5 tonne variable speed feed hopper as well as a variable speed drum, and comes with optional stockpiling conveyors to aid effective material stockpiling.

**For more information regarding the trommel screen range, contact Ultra Plant International on:**

**Tel: 028877 47582 Email: [info@ultraplantltd.com](mailto:info@ultraplantltd.com)**

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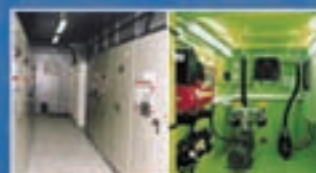
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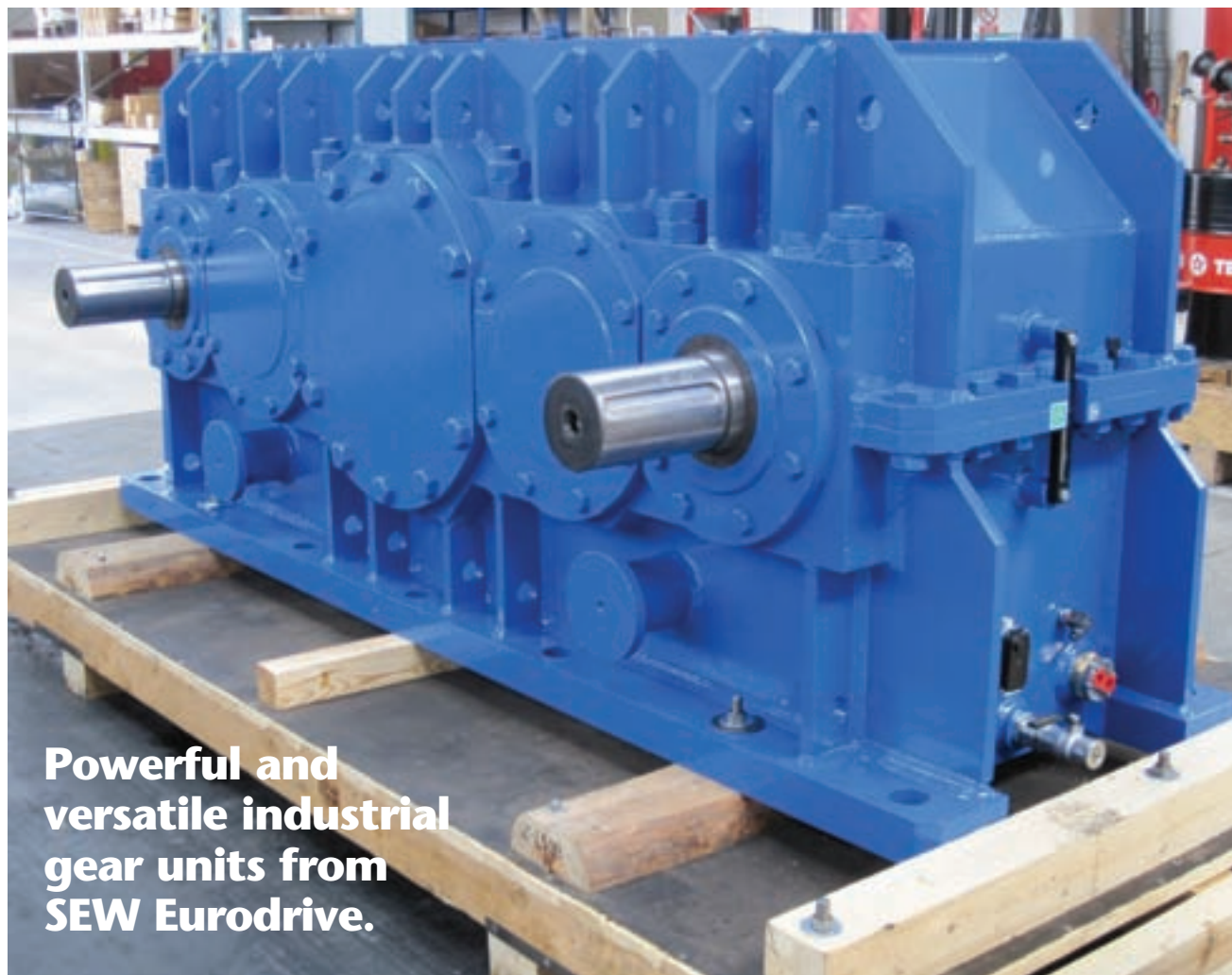
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The reversible gear unit housing of the X Series units allows for variable installations with a single version. This means there is a reduced number of variants for both operators and original equipment manufacturers alike. Other key features of the X Series range include, operational safety, ease of maintenance, extremely robust gear unit housings, low noise operation and efficient cooling systems.

SEW Eurodrive is well known for its short delivery times on standard items and spare parts but the company also has the ability to respond quickly when a bespoke solution is required. Recently Davy Markham required a new gearbox with twin input shafts from two 900kW motors to drive a large mine hoist. The in-house design team at SEW Eurodrive's modern industrial gears facility designed a new gearbox to the exact specifications supplied by Davy Markham's engineers, utilizing X Series technology.

The new gearbox was 3 metres long, 1.25 metres high and weighed in at a colossal 11.5 tonnes. From being given the specifications, SEW Eurodrive's team were able to design, manufacture and deliver the gearbox within just 20 weeks.

With 13 manufacturing plants and 66 assembly plants in 47 countries SEW Eurodrive is a leading global supplier of drive technology and solutions. That's important for companies like Davy Markham whose mine hoists and engineering products end up all over the world. With SEW Eurodrive's drive technology installed, spare parts, service and support is never far away.

According to Steve Marriott, UK sales manager of Industrial Gears, 'SEW Eurodrive is the perfect partner for plant and equipment manufacturers, not only because of its wide range of innovative products and services, but also because of its global presence. If Davy Markham has a customer on the other side of the world it's reassuring to know that SEW Eurodrive is there too and able to provide rapid response to the customer's service and support requirements.'

SEW Eurodrive has drive technology installed on just about every conceivable application worldwide, in the automotive industry, building materials, food and drink, metal manufacturing and many more. The decision to use drive technology manufactured by SEW Eurodrive not only opens the door to reliable and innovative products it also comes with enthusiastic, highly skilled engineers whose philosophy is all about exceeding customer expectations.



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**Seeing the big picture.**

**To offer the perfect gear unit  
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The new X series and P2 series from SEW Industrial Gears portfolio encompass bevel helical, parallel helical and planetary gear technology at its pinnacle. Both of these gearbox models are modular in concept and can be easily combined in conjunction with our extensive range of standard geared motors to give an almost infinite range of configurations and ratios. The X series has 23 different gearcase sizes with fine torque graduations with stand alone ratios from 6/1 to 400/1 and torque ratings from 6kNm - 475kNm. The P2 is available in 9 different sizes with torque ratings from 24kNm to 360kNm. When you combine the cost benefits of these fine torque graduations with the energy saving potentials of our IE3, energy efficient motors, SEW Eurodrive can offer the perfect gear unit to fulfill all of your needs. This is what we call Drive 360 - Seeing the big picture, from problem solving engineering, to lowering your operating costs, SEW Eurodrive will deliver the full package.

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**SEW**  
**EURODRIVE**



# Precia-Molen GeneSYS™ Enterprise System provides the complete solution for Ensus.

Card readers for  
DDGS, Grain 1 and  
Grain 2.



Overhead electronic signage



Vacuum dispatch system for delivery documentation

**Precia-Molen has just installed GeneSYS™ software for Ensus at their Biorefinery site, at Wilton, Teesside providing a total management system for their grain intake operation.**

The Wilton operation is one of the largest in the world and provides a vehicle unloading and intake facility for in excess of 1.2 million tonnes per annum of wheat.

Ensus produces a significant part of the UK's Bioethanol demand under the UK's Renewable Transport Fuel Obligation (RTFO), and generates carbon savings equivalent to taking 300,000 cars off the road. As one of Europe's largest producers of animal feed materials the 350,000 tonnes of high protein animal feed produced each year reduces UK and European demand for soy meal imports that contribute to deforestation pressures in South America.

The Group raised £250 million to build the plant at Wilton, and a

further £60m investment has been made by related parties. These investments support over 2000 jobs in the UK's farming, logistics and manufacturing industries, and accelerate the development of the North East UK region as a new green industrial hub.

Ensus chose the Precia-Molen GeneSYS™ software package because it met four key criteria:

- To bring the entire vehicle unloading operation, including contract validation, sampling, laboratory testing, weighing and discharge on two Precia-Molen weighbridges under the control of a single PC network.
- To be fast enough to cope with a very tight site layout. With an incoming vehicle every 3 minutes it is crucial that the system is fast enough to ensure that they have all been tested and accepted for delivery by the time they arrive at the weighbridge.

- To be flexible enough to adapt to the changing needs of Ensus, allowing new commodities to be added to the database if necessary.
- To be fully supported with technical back-up and updates.

Consequently, Precia-Molen installed multi-user GeneSYS™ Enterprise on the existing Ensus network. All the GeneSYS™ applications communicate with a single Microsoft SQL database, which is installed on the dedicated server.

Traffic enters the site at the booking-in terminal with the driver gaining access by receiving a card from the Precia-Molen automatic card dispenser. Selecting one of four traffic lanes the driver is directed by overhead electronic signage to the un-sheeting area.

The truck then moves forward to the two stations in the grain sampling building, here the driver inserts the



delivery documentation into a vacuum dispatch system which delivers it to the sample probe operator in the laboratory above.

The operator enters the relevant information including reference number, vehicle registration, and contractor code and commodity type. GeneSYS™ then retrieves the contract details from the database and checks that the transaction is valid. If it is accepted the driver then moves forward to the sampling position where a sample is drawn off by one of two remotely operated vacuum spear samplers and sent to the laboratory above for testing.

By the time the sample arrives at the laboratory, GeneSYS™ will already have printed off a sample document with a check list of the quality tests required for this load. The results of each test are fed in by laboratory staff and automatically checked against the pass/fail criteria. If the sample passes all the quality tests then the vehicle is given permission to unload.



Syrup weighbridge



Site exit card reader



If the sample fails for any reason then the vehicle is put on 'waiting' status and the test details are flagged up on the screen. This allows staff to contact the supplier to inform them the load has been rejected, or to negotiate acceptance below contract specification.

Drawing forward the driver then re-sheets the load, and proceeds to the driver console where having swiped his card he receives either a pass or fail. On receiving a pass (if a fail exit the site) he proceeds to the truck control lights to await clearance to pull onto one of two grain intake weighbridges. On arrival the driver enters his card; which if he is in the correct position will accept and weigh the vehicle; if the truck is at the wrong weighbridge the card reader will then inform accordingly. Here the vehicle can tip directly into one of the two pits where the load is then transferred into adjacent silos. (With the possibility of hazardous

dust conditions all the hardware in this area is ATEX compatible).

If the truck has arrived on-site with a back load the system will direct him to the DDGS bulk loading area traffic control before allowing the driver to draw onto the first weighbridge and insert his card into the reader. After loading, the truck proceeds onto a second weighbridge to assess the weight of the now fully loaded truck.

#### **Drawing away from either area trucks then proceed to the site exit**

For the project Precia-Molen installed six pit mounted weighbridges, type VS400S, capacity 50,000kg, eleven PM BI300 driver cabinets with intercom, five motorised RFID dispensers and ticket printers and six badge readers. Additionally, Precia-Molen also supplied two point-to-point document systems and four electronic message board displays.

Precia-Molen also supplied a surface mounted VS400 weighbridge which is utilized for the syrup production. Fully automated with a driver console, trucks are reversed onto the weighbridge with water and syrup loaded into the truck whilst the system monitors the weight, sending a signal to the plc (DDGS control room).

Mark Wilson - Site Operations Manager, commented on the installation, "We handle over one and a half million tonnes of wheat and DDGS truck movements per annum. An efficient electronic receipt & dispatch system is crucial to the smooth running of our business. The Precia-Molen team has worked closely with us over the last 18 months to ensure that we have an effective system."







## BHSL Top Loader revolutionises biomass handling, cutting operating costs by up to 40%

**BHSL, a specialist in materials handling, has unveiled a patented Top Loader for storing, moving and dispensing up to 150 tonnes per day of biomass or other agricultural and waste products.** Compared with moving floors and walking floors, the Top Loader is extremely energy efficient. It is driven by two 2.2kW motors, which operate via a programmable logic controller (PLC) using BHSL proprietary software. With energy savings of up to 60% and simplified maintenance due to moving parts being located overhead, the Top Loader offers cost savings of up to 40% compared with conventional materials handling systems.



The Top Loader can be a stand-alone unit or operated as multiple in-line units. It is equally suited to new installations or retro-fitting in existing buildings. Options include installation of CCTV, remote monitoring, intervention by the company's technicians when needed, and customer access to the BHSL Top Loader information/data screen. The lightweight system comes in 2m, 4m and 6m versions. The 4m and 6m Top Loader can store materials to a maximum height of 4m. It is priced competitively with moving or walking floors but is more reliable because there is no wear and tear due to dust or moisture ingress. The Top Loader is installed by BHSL technicians and carries a 12-month warranty.

The Top Loader is mounted on a dual-rail track above the storage bunker. Its carriage sits on the rails and travels backwards and forwards. Mounted on the carriage and spanning the storage bunker is a blade that moves up and down. As the carriage moves forward, the blade comes down and into contact with the material in the bunker. The Top Loader then collects material from the leading edge, traverses across the top of the pile and delivers the load onto a conveyor. In this way the Top Loader clears the storage bunker as it goes, making refilling easy. An overhead cable management system ensures that wiring is secured and free from hazards.

The Top Loader material storage bunker walls can be concrete or wood and the smooth walls prevent any material remaining in the storage bunker. Front loaders or trucks can be used to fill the bunker.

Moving floors and walking floors both typically have to expend energy to move all the material in the storage bunker to deliver a small amount to the conveyor. The Top Loader overcomes the problem by removing material from the leading edge and depositing a controlled amount into the collector or conveyor, so there is no requirement to move all the material in the bunker.

**BHSL contact for more information: Jeff Poulter Tel: +353 (0) 69 85926 Email: [jeff@biomass.ie](mailto:jeff@biomass.ie)**



# Guttridge launch an innovative dust suppression hopper system for dry flowing materials.

Guttridge have just launched a new award winning dust suppression hopper system into the UK Bulk Handling Market. Following years of fine tuning and development work companies around the world have acclaimed the new hopper as a total success in applications involving dry, free flowing materials.

Now available for the first time in the UK the new hopper ingeniously contains the dust within the product stream when discharging dry bulk materials. Thus, it cleverly avoids the need for the more complicated retractable loading spouts or telescopic loading bellows that are more commonly used in bulk out loading and flat store loading applications.

Originally designed for fertilisers the new dust suppression hopper has proven success with many other dry materials including; cereals, pet foods, sugar, salt and sand. Models are available in either polyethylene, steel or stainless steel.

Uncomplicated to install and easy to operate and maintain there is no product separation during the fall of material meaning that fine material does not become concentrated in the centre of the stockpile. At the point of loading the dust suppression loading hopper concentrates the discharge of dry goods as a solid column through free air into road vehicles, rail wagons, stock piles, storage containers or bags.

Grant Allen, Technical Manager of Impact Fertilisers in New Zealand, commented, "Each year we load 120,000 tonnes of single super phosphate for bulk shipment which generated localised dust, resulting in environmental complaints from the wider community and on-going health and safety issues. After installing the new dust suppression hopper this has resulted in a significant improvement to the working environment and reduced environmental complaints to zero. All this has been achieved with no impact on the speed of the loading operation and has in some cases resulted in an increased rate."



Before



After



Currently being trialled on various sites within the UK the new dust suppression hopper reduces hazards, health risks, dust, wastage, cleaning and maintenance costs and increases storage capacity.

Guttridge Ltd is a leading UK equipment manufacturer and a provider of a wide range of services and bulk powder handling machinery. With an extensive in-house portfolio of equipment Guttridge also partners with a range of Pan European equipment and solutions providers allowing them to potentially fulfil any requirement.



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Materials Handling

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# Bulk Materials Handling Short courses in November at the Wolfson Centre, University of Greenwich.



**THE WOLFSON CENTRE**  
for Bulk Solids Handling Technology  
at The University of Greenwich



**Book your place now for the 2 courses to be held in November at our Short Course Centre in Chatham, Kent.**

These courses are aimed at Engineers, Managers, Skilled operatives, maintenance crew, equipment manufacturers or anyone involved in using powders and particulates. A basic technical education and/or experience in industry is recommended.

Numbers for the seminars are limited to allow delegates the time to discuss their own operational needs and problems.

## **Overview of Particulate Handling Technology**

**1 - 2 November £680 for 2 days**

**3 November - optional practical session £1055 for 3 days**

**Topics during the 2 days include:**

- Efficient materials handling
- Characterisation of materials
- Transportation techniques
- Instrumentation and Control
- Bulk Property measurement
- Big Bag emptying

**In the practical session you will be able to:**

- Test you own materials with the aid of our experienced technicians and researchers (If you do not have your own materials, we can provide some for you)
- Learn different methods of characterising materials
- Receive advice and recommendations on the results

If you opt to attend the practical session, you will be contacted prior to the course to determine your needs. A programme of testing can then be designed specifically for you. You don't need to have a particular problem to benefit from these sessions - tell us what you wish to gain and we will do our best to oblige.

## **Pneumatic Conveying of Bulk Materials**

**22 - 23 November; £680**

**The following topics will be covered:**

- Components of pneumatic conveying systems;
- Design Techniques;
- Operational problems and effects on system design
- Operation and control of blow tanks, including the transport of powders
- Interfacing storage bins to conveying systems
- Explosion hazards, including ATEX directives
- All aspects of system selection and operation

On-line booking and further information on these and all of the courses offered, as well as general information about our services, can be found at [www.bulksolids.com](http://www.bulksolids.com)

Or Contact: [wolfson-enquiries@gre.ac.uk](mailto:wolfson-enquiries@gre.ac.uk) ; 020 8331 8646



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# Improved sand quality for Reddal Sand

**A new sand washing plant for Reddal Sand has resulted in a significant improvement in the quality of the sand being produced at their site in the South of Norway.**

Reddal Sand is located in Grimstad, Aust-Agder and has supplied a variety of construction materials to major projects in the area since 1989. These include materials for use in the manufacture of roofing tiles, concrete, road construction and various types of groundworks including sports fields, playgrounds and golf courses.

Morten and Jan Tore Pedersen of Reddal Sand began looking for suitable wash plants as they believed they could recover more material than was currently the case from the sand and gravel reserve. A particular area of concern was the top 3 to 4 metres of the deposit which contained a high level of fines and clay contamination that was compromising the final quality of their sand product. After looking into a number of potential suppliers they chose the Evowash sand washing plant from Northern Ireland company, CDE Global.

*"We chose CDE equipment as a result of the experience they were able to demonstrate in the provision of equipment for similar applications in many countries" says Morten Pedersen. "An additional factor in their favour was the flexibility they showed in terms of being able to customise the plant to the specific nature of the material we are processing."*

The new sand washing plant includes the Evowash 71 and Evowash 151 supplied by Ankerløyken Equipment who represents CDE in Norway. "The Evowash allows us to maximise the production of quality sand" says Morten Pedersen. "The new installation has ensured that we are able to offer a higher quality sand product to our customers, which sets us apart from other suppliers in the area."

Reddal Sand are supplying material to a diverse range of customers including roof tile manufacturer Skarpnes as well as Skarpnes Rør (concrete pipes), Ribe Betong (concrete), Digernes Betong (concrete) and Betong Sør (concrete). The company also supplied all the aggregates used on the construction of the new E18 road between Grimstad and Kristiansand through Ølen Betong (concrete).



Samples taken of material from the site suggest it to be one of the best reserves of natural sand and gravel in the South of Norway. The current processing licence is initially for a 20 year period with an option to extend for several more years. Current production capacity at the site following the addition of the two Evowash sand washing plants is 200,000 tonnes per year.

Reddal Sand is a member of PGL - the Norwegian Federation of crushed rock and sand and gravel suppliers and all the concrete aggregates produced meet the relevant Norwegian quality standards in co-operation with the Control Council for Concrete Products.



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# Bell wheeled loaders a positive move for Earthline

**Plant operators are on a seemingly never-ending rollercoaster ride in their efforts to balance growing costs with static return rates. That balance leaves little room for unscheduled downtime.**

One industry leader, Wiltshire-based Earthline, has recently bought a brace of Bell wheeled loaders - and is really enjoying the ride.

Since its foundation 30 years ago, Earthline has grown to be one of the largest independent earthmoving, recycling and quarrying companies in the south of England.

Like every other business in its field, the family run company has experienced tough periods, but it has remained successful through diversification and a commitment to being flexible to customer needs.

The diversification of applications means Earthline also has to ensure that much of the equipment it buys is capable of performing well at different tasks and in different environments.

This is one of the reasons it opted to demo a wheeled loader from Bell Equipment last year at its Shellingford Quarry site, near Faringdon, in Oxfordshire.

Earthline director Philip Coplestone said: *"I was a bit nervous and sceptical at first, as Bell's loaders are relatively new machines to the UK market. Bell has always been known in this country for its ADTs, though the fact that they are John Deere-built gave us some confidence.*

*"And it didn't take us long to realise what a great piece of kit a Bell loader is. The Bell loaders even look like really solid quarrying machines. The high spec and the build quality stands out against anything else."*

The demo went well, and an order was soon placed for a Bell L1806E - a mid-sized model in Bell's seven-strong loader range - even though Earthline had just ordered a couple of loaders from another manufacturer.

Coplestone explained: *"We don't like to put all our eggs in one basket, and we were keen to see the Bells in a real operational environment. The demo was enough to persuade us to put our toe in the water and actually order one."*

He went on: *"The drivers think they're great; they're really easy to maintain, very reliable and nice and powerful to operate."*

Despite the positive reception for the Bell loaders, good fortune also smiled on Bell.

Earthline discovered one morning that one of its other loaders had been vandalised overnight, meaning an urgent replacement was needed. Coplestone got in touch with Bell and agreed to order a second L1806E loader in return for Bell loaning Earthline a larger L2606E model at short notice to fill the operational gap while the new machine was awaiting delivery.

Neville Paynter, managing director of Bell Equipment UK, said: *"This was a fabulous opportunity for Bell: our loaders had been endorsed by a major player in the industry. Luckily, we were able to reassign our L2606E demo model to Earthline quite quickly, which hopefully saw them through that particular operational problem."*

Bell launched its wheeled loaders at the end of 2008, with the first machines delivered to UK customers in 2009. That same year, Bell launched a version specifically for the waste and recycling industry, capitalising on the unique QuadCool cooling system, which comes as standard on all Bell loaders and which vastly reduces any downtime due to debris build up.

The onset of the global recession slowed the sale of new machines across the entire industry, but Bell also had to overcome the hurdle of being the "new kid on the block" in terms of its loaders.

*"We always recognised that it would take time to convince UK customers that our loaders were as strong and reliable as our dump trucks," explained Paynter. "But we also knew that, once a customer had tried them out, they would find it difficult to find fault with them. We have always been confident in the quality of these machines, as Earthline discovered."*

Earthline's second Bell L1806E loader was delivered at the end of June this year - by which time Coplestone and his operators had seen enough from the on-loan L2606E and the original L1806E to be suitably impressed.

*"Pound for pound, they seem to be more powerful than other makes," said Coplestone. "And the spec is fantastic. They are definitely good value for money, and I wouldn't hesitate in buying more assuming the deal was right."*



The Bell loaders are both working on the Shellingford Quarry site, alongside a combination of nine other loaders. One L1806E is working in a recycling application, processing hard core, concrete and demolition waste, while the other machine is involved in the excavation and haul of building sand.

Each loader will typically shift 6-700 tonnes of demolition and associated recycling waste per day, or about 400 tonnes of sand.

*"We've definitely seen benefits in reduced downtime with the Bells," said Coplestone. "And we also know that the support we get from Bell, should anything go wrong, is second-to-none."*

Philip and his co-director, brother Matthew Coplestone, are no strangers to Bell, despite this being their first foray into Bell wheeled loaders.

Back in 2003, Earthline was running Bell B40D articulated dump trucks alongside some B25Ds. But the Bells were phased out and replaced by a fleet of ADTs from another manufacturer.





Shellingford Quarry, near Faringdon

Philip Coplestone admits that the decision was not a good one.

*"We went away from Bell for commercial reasons," he said. "But it was a big mistake. We had no end of trouble with the replacements. So, as soon as we came towards the end of the warranty periods we switched back to Bell."*

Earthline now operates a fleet of four Bell B40D dump trucks, all of which are fitted with Bell's advanced Fleetm@tic GPS fleet management system, which Coplestone refers to in glowing terms.

The B40Ds, widely regarded as the most fuel efficient ADTs in the world in terms of their weight-to-performance ratio, are operating in a variety of earthmoving, landfill and quarrying tasks depending upon seasonal and customer requirements.

They each typically haul in excess of 1,200 tonnes of building sand or limestone over an average 600-metre haul cycle, or around 1,700 tonnes of top soil if carrying out landfill duties. The limestone quarry work is supported by a 70-tonne Volvo EC700 excavator and a 45-tonne Komatsu PC450 excavator.

B40D - the ADT of choice for Earthline 3MB



L1806E wheeled loader



Coplestone said: *"The Fleetm@tic system allows us to accurately measure production quantities and machine performance, including differentiation between the various materials we are handling. It leaves little to guess work, meaning we know exactly how we are performing commercially. Fleetm@tic is a brilliant bit of kit."*

As with the wheeled loaders, he said that the machine operators much preferred the Bell ADTs, due to things like the noticeably smooth gear changes and the general comfort in the cab.

*"Put quite simply, they are a well-made piece of machinery," said Coplestone, "which is exactly what we need to avoid unscheduled downtime wherever possible, to satisfy our customers' demands and to succeed commercially."*

He added: *"There's no doubt that it's very tough at the moment. Rates are not going up, but costs continue to rise."*

*"Fuel is certainly our biggest cost, while machine reliability combined with performance becomes increasingly important. These things have always been significant in terms of running costs, but the reduced margins across the industry mean they are more acute factors than ever before. Our decision to turn to Bell very much complements our drive for high performance and high efficiency."*



L1806E wheeled loader



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## Armagh based Concrete Batching Systems Ltd secures Nigerian contract

**Armagh based company Concrete Batching Systems Ltd has secured a £100,000 contract in Nigeria with support from Invest Northern Ireland.**

Concrete Batching Systems Ltd, established in 2010, specialises in the design, manufacture and installation of turnkey concrete batching plants and mixing systems for markets including Great Britain, the Republic of Ireland, mainland Europe, Africa and the Middle East.

The company recently completed the Nigerian business deal, which it secured following an investment by the firm to grow its export sales. Invest NI offered Concrete Batching Systems Ltd over £22,000 to help the company implement a wide range of market development activities and establish a manufacturing base near Newry, Co. Down.

Concrete Batching Systems Ltd plans to create six new posts in a variety of roles over the next three years. These positions will include manufacturing, technical, sales and administration jobs, four of which are already in place.

Mark Bleakney, Manager of Invest NI's Southern Regional Office in Newry, said: "Securing such a valuable export contract is positive news for this recently established company. Concrete batching is a niche area within the construction sector with substantial growth opportunities outside Northern Ireland."



*"This significant investment will help Concrete Batching Systems Ltd to enhance its marketing capabilities and enable the company to compete more effectively for new business."*

Kyle Ferris, owner of Concrete Batching Systems Ltd, said: "We identified sales opportunities for small mobile batching plants across a number of countries and recognised that in order to fully exploit this potential we needed to boost our competitiveness."

*"Invest NI's support with implementing our market development strategy has contributed towards our success in Nigeria. Over the last month we have built on this achievement, securing two new batching plant contracts in Great Britain. This is welcome news, and by exploring new markets we aim to further expand our export sales in the future."*

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



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Powerscreen 1000SR - most popular Powerscreen machine in the Indian market

## Celebrating ten years of success in India



**Powerscreen, one of the world's leading providers of mobile crushing, screening and washing equipment, is proud to celebrate 10 years of success in India.**

Patrick Brian, Global Sales and Marketing Director, said, *"India has been a rapidly emerging economy and Powerscreen equipment has played a major role in developing the country's infrastructure. Powerscreen has grown with the country in the last 10 years. By investing in the local economy with a purpose-built manufacturing facility in Hosur, India, we have strengthened our intent to continue to grow with India. We are looking forward to the next 10 years"*

In 2001, Powerscreen appointed Voltas (Limited) as its first distributor in India. Voltas sold the first track plant in September 2001 and since then, Voltas has helped Powerscreen gain the largest market share of tracked crushing and screening equipment in India.

As the market continued to develop, it became evident that Powerscreen would need to recruit additional distributors. In 2009, Alpha Technical Services Pvt. Ltd and Vijay Traders were added. In 2011, the distribution network has been further fortified with the signing of two additional distributors, Progressive and Lathangi, extending Powerscreen's reach within India.

Powerscreen offers a comprehensive range of mobile tracked and wheeled crushers and screens, as well as washing equipment. These include the market leading jaw, cone and impactor crushers as well as a broad range of screening and washing machines. The Powerscreen range has become a top choice for customers in the mining and construction industries.



*Powerscreen Indian Dealers at Excon 2009*

Powerscreen provides customers with excellent support via their global network of dealers in more than 60 countries, which helps ensure there is a local dealer near you. Coupled with a spirit of innovation, we are confident that these attributes will continue to make Powerscreen the brand of choice in the Indian market place.

Sales staff are trained on all our crushing and screening products to help make certain you get the right machines for your application - giving you the volume, shape and size of end product you need.

Our trained and skilled service engineers will help increase your efficiency, resolving issues in the field to reduce downtime.

To increase productivity, we stock a wide range of crushing and screening wear and general parts. These genuine, high quality parts are engineered to last and designed specifically for your machines.

**For more information on Powerscreen® crushing, screening or washing products or Customer Support, please contact your local dealer. Details can be found at [www.powerscreen.com](http://www.powerscreen.com)**



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# CEMEX Upgrade their Sand Processing with DUO

DUO was once again on hand to provide leading building materials company CEMEX with their expert knowledge and the supply of equipment to meet their needs at Angerstein Wharf. The Angerstein aggregates plant was installed by DUO five years ago as CEMEX replaced their fire damaged plant and took the opportunity to increase the site's efficiency and capacity. Due to demand for CEMEX to further increase its supply to the construction market, it was time again for an upgrade.

DUO recently completed the installation of two new sand plants to process the fines from sea dredged materials. The new sand plants, which have more than doubled the sand processing capacity for CEMEX at Angerstein, will each operate at a nominal 200 tonnes per hour, although each plant can handle a maximum of 250 tonnes per hour at peak time. DUO designed the inlet to the plants to provide an evenly distributed flow to the two plants in order to maximise their efficiency and providing total peak output of an impressive 500 tonnes per hour.





The sand plants not only provide higher output levels for CEMEX, but also a quality end product; this is delivered through the use of advanced hydrocyclone technology. This technology provides consistent low moisture content dewatering of product, without loss of useful fines and is designed to ensure easy maintenance.

The sand plants receive the underflow from two Terex Cedarapids horizontal screens; this underflow contains -5mm for processing by the aforementioned hydrocyclones. The processed sand is dewatered and stockpiled via the existing conveyors, and the used water is then processed for reuse in the wash plant to minimise water use and promote sustainability. Access to both sand plants is available via the fully galvanised support structures, which include support of the cyclones and dewatering screens, as well as steps and walkways.

When asked about the installation Fintan McKeever, Director at DUO commented *"Having installed the turnkey solution that CEMEX are currently operating at their Angertsein site, we were in an excellent position to assist them with this upgrade in terms of understanding the onsite restrictions and their existing operation."* He added *"The inclusion of the new equipment was designed to utilise the footprint of the sand plants that were being replaced and to work in harmony with the existing plant."*

CEMEX's Glyn Richards, Area Operations Manager, commented that *"The new sand plants have given the site the ability to significantly increase throughputs and ensure we continue to meet rising market demand. They have been an ideal match for the existing DUO plant."*

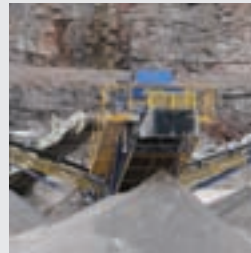


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# Mentor Training introduce two new courses for the Quarrying and Waste Industry

Mentor Training, leading UK provider of training and associated services for all types of materials handling equipment and workplace transport has introduced two new courses for the Quarrying and Waste Industry

## Mobile Crushing & Screening



With quarry and waste processing operations involving more mobile equipment, crushing and screening machines are now becoming more commonplace as part of the aggregate and waste processing plant. Mentor has launched a new course for Crushers and Screens that fully covers the

safe operation and daily maintenance of these machines.

Mentor tutors possess excellent industrial experience which enables them to put their instruction in context and cover this working environment. As a foundation for the course the Provision and Use of Work Equipment Regulation 1998, Management of Health and Safety at Work Regulations 1999, and the Personal Protective Equipment at Work Regulations 1992 are fully discussed and the course will cover accidents and associated risks with crushing and screening equipment.

There will an introduction into Jaw, Cone, Gyratory and Impactor Crushers, including the use of the manufacturer's manual and will cover pre-use checks, start-up, manoeuvring and safety hazards, including machine blockages. Machine shutdown and transportation and environmental issues will also be included within the course.

## Light Vehicle Training



Quarries and landfills are dangerous places for untrained operatives, but it is not only those operating heavy machinery that require guidance in order to maintain a safe working environment. Light vehicles such as Land Rovers working on site are also potentially dangerous if not operated correctly.

Mentor has therefore introduced a new light vehicle course which offers a comprehensive look at this type of vehicle and the hazards involved with its operation. The course incorporates health and safety legislation, pre-use inspection and provides a detailed look at the machine's control and their use in a working environment.

General and quarry specific driving hazards, such as stability and negotiating slopes are covered to ensure operatives can safely deal with the off road terrain. Trailer towing can also be included, if required.

These courses are carried out by qualified industry tutors who have undergone accredited training in instructional techniques and skills assessment; all courses are held at the customer's site to allow for site specific/operational training.



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## Terex® Finlay previewed the NEW Terex® Finlay 684 tracked mobile inclined screen at SteinExpo, Germany, in advance of its launch later in 2011.

**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' x 5'7") inclined decks giving a large screening area of 21.9m<sup>2</sup> (236ft<sup>2</sup>) 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. 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 8m<sup>3</sup> (10.50yd<sup>3</sup>) capacity as standard and can be fitted with a 14ft tipping grid or 12ft vibrating grid.

The machine is equipped with four hydraulically folding discharge conveyors allowing for maximum stockpiling capacity and associated benefits of rapid set up and tear down times.

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' x 5'7") 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.





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# Canning conveyor expand their existing conveyor belt ranges

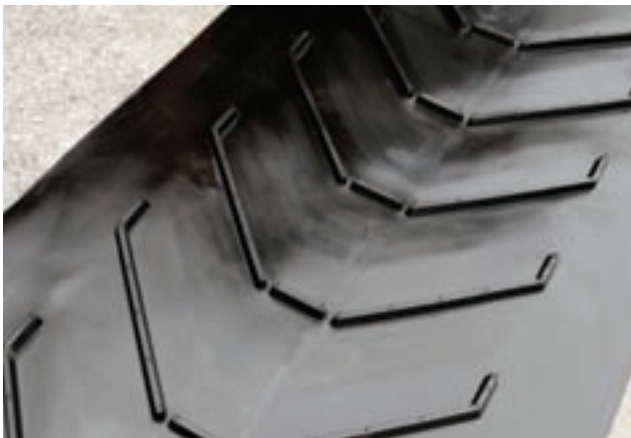
Canning Conveyor is a major force in the supply bulk materials handling plant and equipment offering a vast range of products and services second to none, holding huge stocks of conveyor belting, idlers, rollers and many ancillary components and design, manufacture and install many types of conveyors, hoppers, conveyor drums and associated plant and equipment.

Recently, Canning Conveyor has made a substantial investment into expanding their existing range of conveyor belting and can now offer extensive stocks of new wider width belts.

## New Wider Chevron Conveyor Belting



Over and above the normal widths of 400-1200mm wide with various specifications 15 + 25mm high chevron or cleats, we now stock new widths from 1200-1600mm, with the new pattern width of 1000mm on base belts 315/3 - 500/3 - 630/4



## Friction Back Chevron Conveyor Belting

Canning have invested in a completely new range specifically for usage on flat or inclined slider bed conveyors which are ideal for recycling MRF's and scrap processing applications. New ranges are available from light to heavy-duty applications 450/500/600/650/750/1000/1200mm wide and are available in 15 + 25mm high chevron cleat.



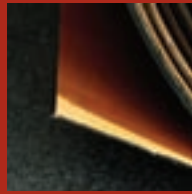
## Premium Solid Rubber

Canning has invested very heavily in this area and can offer stocks to cover virtually every application. The ranges available include pre-sliced widths and full roll widths from 100-1200mm wide and include every thickness from 3-50mm thick and are ideal for:

- Skirting
- Lining
- Scraper blades
- Matting
- Floor and wall covering







## Friction Back Smooth Top Conveyor Belt

New ranges have been introduced and include stocks of **Standard and Oil Resistant** quality focussing on a range of specifications designed to fulfil customer demands.



### Four ranges are available:

- EP 250/2 2+0 x 5mm
- EP 400/3 3+0 x 8mm
- EP500/3 5+0 x 10mm
- EP600/3 6+0 X 12mm

Ideal for recycling plants, picking belts, flat bed conveyors, scrap processing

## Vulcanising Equipment & Tools

A comprehensive range for both manufacturers and vulcanisers to acquire everything necessary to build and supply in-house and on-site vulcanisation services and products.



- Glues and solutions
- Buffing discs
- Vice grips
- Various tools-knives, brushes, rollers

## Side Wall Conveyor Belting including Walls & Cleats

With the large investment into the side wall conveyor belting and accessories Canning are now able to offer the opportunity for all to benefit from the availability of this specialised cross stabilised belt, wall and cleating. This product is not only sold in component form, but is now available ready-built to order by Canning.



### The new range includes:

- XE250/2+1 cross stabilising ply, 4+2
- XE250/2+2 cross stabilising ply, 4+2
- XE400/3+2 cross stabilising ply, 5+2
- XE400/3+2 cross stabilising ply, 6+3
- XE500/3+2 cross stabilising ply, 5+2
- XE630/4+2 cross stabilising ply, 5+2

Sidewall 40/60/80/100/120mm

Cleating, T-TC with heights - 35/55/75/90/110mm



**Canning Conveyor**  
**Material Handling Solutions**

For more information please contact:

### Canning Conveyor Co Ltd

Sandy Lane Ind. Estate, Sandy Lane, Worksop, Notts S80 1TN

Tel: 01909 486166 Fax: 01909 500638

Email: [sales@canningconveyor.co.uk](mailto:sales@canningconveyor.co.uk)

Web: [www.canningconveyor.co.uk](http://www.canningconveyor.co.uk)



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## 25 years of conveying experience with Game Engineering

**GAME Engineering Ltd over the past 25 years have built a solid reputation for quality and design, our efficient and cost effective solutions have seen the manufacture and installation of an extensive range of bespoke conveyors supplied into a variety of industrial sectors.**

The belt conveyor range that GAME are able to provide includes smooth, cleated and side wall belt conveyors handling a wide range of materials for various sectors including; Biomass, Fertilizer, Waste Recycling and Animal Feed.

Another area of expertise is the ability to get production facilities up and running again as quickly as possible after accidents; a previous client required this after a severe fire where equipment was damaged as a result. GAME attended the client's site and removed the damaged equipment, returning it to our works where it was thoroughly reconditioned and then re-installed. This work has been carried out working with insurers and has minimised costs to all involved.

GAME are able to design, manufacture and install conveyor systems from scratch for a client; if required however, GAME are also able to modify clients existing conveyors to meet their new requirements; as has been done recently for a very good long term customer.

**For further information on past projects or to discuss your requirements please email [sales@game-engineering.com](mailto:sales@game-engineering.com) or visit the GAME website [www.game-engineering.com](http://www.game-engineering.com)**



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GAME Engineering Ltd also designs and manufactures large diameter screw conveyors, which have successfully been installed to numerous clients, handling low-density materials. Our design team will look at client's specific requirements and manufacture special purpose machine tailored to suit their needs.

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## Beaufort Conveyors have made huge strides recently with the launch off a new Road Towable conveyor - THE EASIVEYOR!



Along with many other applications this conveyor represents the ideal solution for dosing steel fibres and ad-mixtures into concrete trucks. The 'EASIVEYOR' which weighs less than 600kgs can be easily towed from depot to depot or from site to site behind standard vehicles fitted with a 50mm ball hitch. The conveyor is based on an Easikit 450 conveyor 6 metres long and is supplied complete with a 110v Motor pre-mounted and wired with plug ready for connection to power supply.

The first of their new EASIVEYOR road towable conveyors, originally ordered by Tarmac, Buxton depot was delivered to a Tata site near Llanwern, Newport, South Wales recently to assist with a concrete pour. A spokesman from Tarmac said "We're absolutely delighted with this conveyor which is far superior in quality to anything else we have used before to add steel fibres to the concrete. I'd have to say that this is the easiest and safest way I've ever loaded fibres!"

He went on to say that recently they had experienced issues when a worker received a severe hand injury from one of the steel fibres. He said that in future it will be a necessity that all steel fibres are added using a conveyor.

Not only are the concerns of Health & Safety issues eliminated with this conveyor, but it also eliminates the need to hire plant for one-off uses and being road towable reduces expensive transport costs and worries.

Beaufort Conveyors are always happy to assist and advise with any conveying applications that you may have.

For more information on the Easiveyor, please visit [www.easikit.co.uk](http://www.easikit.co.uk) or contact Beaufort Conveyors on 0843 224 1111.



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# Air supported conveyor fills tall order for clean, low-maintenance operation

The nation's largest producer of construction aggregates has employed an innovative air-supported conveyor system to serve its new railcar loading station, allowing the firm to ship clinker in bulk quantities to its grinding facilities in Port Manatee and Tampa. With its stable ride and fully-enclosed construction, the system contains fugitive dust and reduces maintenance requirements, while taking excellent advantage of very limited space.

When company officials at the Vulcan Materials cement plant in Newberry, FL decided to ship clinker to remote grinding facilities, they knew it would require adding a new conveyor and load-out structure. The real challenge to the project came in designing the system so it would fit with the plant's existing silos and conveyors.

"The only practical option was to locate the railcar loading conveyor next to the existing pan conveyor, which carries clinker to the finish mill," explained Maintenance Manager Jim Kerns. "It was determined that the new conveyor would fit in a hallway running under the silos, but we knew that once installed, it would completely fill the available space," he said.



As a result, clean-up of any fugitive material accumulating under or around the conveyor would be extremely difficult and potentially dangerous without stopping the adjacent pan conveyor and shutting down production. That realization led to the search for a highly reliable conveying system with the proven ability to operate for extended periods with very little maintenance, one that could prevent the escape of fugitive material and also protect the load from rain that would introduce unwanted moisture to the product.

## Selecting an Air-Supported System

After reviewing a variety of designs and proposals, the company specified a Martin Engineering® Air-Supported Conveyor, a simple and economical system that resolves many of the issues encountered with conventional belt conveyors. With no moving parts that require maintenance on the load-carrying side, the system could be installed in the close quarters of the hallway under the clinker silo.

"Air-supported conveyors eliminate the carrying-side idlers used on conventional conveyors, and instead use a film of air rising from a troughed pan to lift the belt," explained Greg Bieri, Global Project Manager for Martin Engineering.

*"By removing a source of friction that requires periodic maintenance, air-supported designs offer significant advantages -- including energy, environmental and safety benefits -- yet the cost is competitive with traditional belt conveyors,"* he said.

The Martin Engineering system does not require a compressor, powering up to 600 feet (183 meters) of conveyor supported by a single low-power centrifugal fan. Extremely low friction inherent to the design can reduce overall drive power requirements by as much as 30% on a horizontal conveyor.

The use of air supported conveyors also eliminates the need for idler adjustment to correct belt tracking issues. The advantages include extended belt life and reduced maintenance costs, as well as improved safety by limiting employee exposure to moving components.

## Simple Concept for a Smooth Ride

The concept of the air-supported design is fairly simple, with the load zone and carrying sections contained in a plenum that's pressurized by the centrifugal fan. The carrying surface of the plenum is typically shaped to the





parabolic curve profile of a conventional belt conveyor, with a 35° trough. Holes in the top of the plenum create an air film between the plenum and belt, which supports the moving load.

The return run does not require air support, and many systems incorporate conventional idlers on the return side. By using standard take-up drives, chutes and support structures, the air-supported design allows conversions of, or connections to, existing standard belt conveyors.

At the Newberry plant, the 24-inch wide (610 mm) air-supported conveyor negotiates a vertical curve to elevate the load 25 feet (7.6 meters) over the 290 foot length (88 meters) from the bottom of the clinker silo to the top of the load-out structure. Capacity is set at 400 ST per hour (363 tons) of 1-inch minus (25 mm-) material, with a belt speed of 350 feet per minute (106.7 meters per minute). The troughed conveyor is moved by a 25 HP (18.6 kW) drive motor, and the air support system uses a 15 HP (11.2 kW) blower to raise the belt.



The air-supported design from Martin Engineering eliminates maintenance issues such as idler lubrication and belt alignment, and the modular system allows replacement of existing conveyor sections with CEMA standard construction. Air-supported and conventional roller sections can be mixed to accommodate loading zones, tracking idlers, belt scales or other needs. With its stable path, an air-supported conveyor can operate at a steeper incline than roller conveyors, which can reduce the overall length and installed cost.

Two belt feeders at the Newberry plant meter the material through rolling blade gates to deliver a consistent load to the conveyor and prevent the "starve and flood" conditions that can impede smooth operation. The material flows into ceramic-lined transfer chutes, also supplied by Martin Engineering, then onto the conveyor.

As the material enters the discharge tower, it passes over a belt scale and into a retractable dustless discharge chute, which extends down into the railcar opening. The discharge chute is installed on a positioner that delivers up to 6 feet (1.8 meters) of travel perpendicular to the tracks to accommodate various loading hatch arrangements. An insertable dust collector is installed at the head pulley to catch any material that becomes airborne.

"Fugitive material control was a critical element of this system," Kerns added. "We needed to prevent the need for maintenance in the confined space location, but we also had environmental objectives. Alligators and other protected species inhabit this area, and we wanted to ensure that dust didn't migrate from the process."

Results at Vulcan's Newberry plant have been very positive, and the company reports virtually maintenance-free service from the air-supported system. "The product condition is excellent from the smooth handling," Kerns concluded. "And with the fully-enclosed system, there is no contamination of the conveyed material or escape of fugitive dust."

Vulcan Materials Company, based in Birmingham, AL, is the nation's largest producer of construction aggregates and a major producer of other construction materials, including asphalt, cement and ready-mixed concrete. The firm produces aggregates (primarily crushed stone, sand and gravel) that are used in nearly all forms of construction, particularly the large quantities of aggregates needed to build roads and commercial properties.



## Pneumatic conveying systems used for tunnel fill



**Aptech has supplied two pneumatic conveying systems as part of a major gas pipe project in the Greater London area. The systems were designed to backfill 6ft and 8ft tunnels with ground glass or sand.**

Rather than relying on the traditional method of using liquid grout to fill tunnels of this type, the use of a dry fill was favored. Once grout is set, ground movement can cause it to crack, resulting in potentially damaging levels of stress being imposed on the gas pipe. A dry fill would allow the pipe to move. Then there was the question whether it would be possible to pneumatically convey dry fill the distances required.

*"Aptech were the only company to develop a solution that we had confidence in," says Chris Rixon, advisor to the project. "Following small scale trials, we were impressed with the final designs and ability to manufacture pneumatic conveying systems that would fill the tunnel effectively."*

*"To have used liquid grout would have required building bulkheads along the tunnel at frequent intervals and then pumping in grout to fill behind them. Even then, this method makes it difficult to fill to the roof and provide a complete and stable fill. Originally a year had been allowed to fill the tunnels with liquid grout, but Aptech completed the dry fill in just four months."*

Aptech's design included support and movement of the conveying pipe in the tunnel. A cable also runs down the tunnel to instruments at the end of the pipe.

Robert Skelton, Aptech's managing director says *"These machines operate at high pressure, so can convey long distances. Instead of a rotary valve which would wear, they use a screw conveyor to meter the sand into the conveying pipe. The two machines, for small and large tunnel filling, were designed, built and put straight to use. For other applications, this high pressure method of pneumatic conveying is suitable for conveying cement, minerals and biomass."*

The sizing of the conveying systems uses Aptech's unique pneumatic conveying software. This analyses each section of the conveying system, predicting velocity and pressure change at every stage including changes in pipe diameter.

The two systems were distinct insofar as the smaller, lower pressure system was designed to discharge ground glass or sand from 1Te big bags and convey it at up to 14Te/hr to fill tunnels up to 300m long. The larger, higher pressure system was designed to transfer the dry fill from silos to a delivery system, weigh and convey it at up to 60Te/hr to fill tunnels up to 1000m long.

With over 30 years of experience specialising in the design, supply and installation of process systems and equipment, Aptech has established itself among the leading players in powder and solids handling. Through using the latest technology, their comprehensive range of products deliver technically advanced yet cost effective solutions.

## Flexco expands line of service advantage cartridge™ cleaners

**Flexco has simplified installation and maintenance of the Service Advantage Cartridge™ for the Minline® MHS Heavy-Duty Secondary Cleaner and added the feature to its P-Type® Secondary Cleaner and R-Type® Reversing Secondary Cleaner. The Service Advantage Cartridge is ideal for limiting downtime and easily maintaining the cleaner to ensure superior performance.**



The enhanced design now features a variety of options for locking the cartridge into place, making it adaptable based on local codes and offering solutions for varying space constraints during installation. The Service Advantage Cartridge slides out from the accessible side of the conveyor or chute wall for inspection, service, or replacement by a single worker in only a matter of minutes.

*"The enhancements made to the Service Advantage Cartridge allow flexibility for maintenance and installation options, making it even easier to service and inspect the cleaner," said Ryan Grevenstuk, product manager for Flexco. "Adding this feature to our P-Type and R-Type provides an economical, yet service-friendly solution as well."*

Blade cartridges can be removed in minutes and can be changed without removing the complete assembly pole or brackets from the conveyor. Instead, changing the cleaner blades is done by simply removing a pin, sliding the blade cartridge out through the side, and replacing it with a new or rebuilt blade cartridge. This feature allows maintenance workers to replace multiple blade cartridges during the same maintenance period, saving time and money. The cartridges can also be easily rebuilt on site.

All three cleaners are durable and can be serviced in even the most severe weather conditions. Additionally, the side slide-out design is safer for workers because it doesn't require them to access tight spaces to remove the cartridge.

A dual cartridge design that splits in the middle for removal from both sides is also available for belt widths of 60 in. to 120 in.

**For more information on the heavy-duty line of cleaners from Flexco, log on to [www.flexco.com](http://www.flexco.com).**

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## C&K Fitzpatrick launches the WorkSmart range of troughing sets

It's no secret that industry in Ireland is experiencing difficult operating conditions. The conveying sector has been hit particularly hard by the collapse of the quarrying industry which comprised a large proportion of the entire sector. C&K Fitzpatrick has responded to this change by looking for efficiencies within their existing high quality products and a good example of this is the new WorkSmart range of troughing roller sets.

The Irish troughing set market is dominated by the widespread use variable angle troughing sets. While these sets are useful for certain applications, they can be vulnerable to damage on wing rollers or twisting of the frame. However any replacement would have to be compatible with these rollers which are used throughout the quarrying and recycling industries.

*"We looked at where savings could be made without compromising quality" says Mark Fitzpatrick. "the solution was to utilize the Sandvik (formerly Gurtec) GUP line which mass produces standard rollers at the rate of one every fifteen seconds."*

The Sandvik GUP roller production line is a state of the art line based at Schoppenstedt in Germany. The line is fully automated with automatic cutting, welding and powder coating of the rollers. Shafts are also manufactured on the automated line and fitted complete with bearing and multiple labyrinth seal. These rollers comply to Sandvik's high quality standards and are interchangeable with rollers from the manual GST (bespoke rollers) line.

C&K Fitzpatrick have carefully designed and manufactured a frame to be interchangeable with existing Sandvik and competitor variable angle sets. In most cases it is a simple matter of bolting one set out and the new WorkSmart in. Once installed, all of the rollers are of the "drop-in" type and so there is no struggling corroded U-bolts. The fixed angle design provides a secure side supported troughing set capable of standing up to demanding applications. While the angle base and off-set rollers ensure that any material build-up can easily fall free.

This type of innovation is key to maintaining a competitive position in difficult trading conditions. C&K Fitzpatrick has implemented this innovation throughout their range of conveyor belting, belt fasteners, belt cleaners and conveyor accessories, bringing value to the customer without resorting to lower grade products.

For further information contact C&K Fitzpatrick at [info@ckf.ie](mailto:info@ckf.ie) or [www.ckf.ie](http://www.ckf.ie)

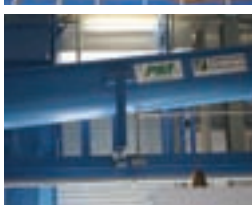
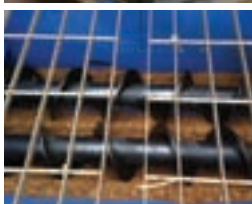


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## Soderhamn Eriksson create a clean & safe environment

Söderhamn Eriksson Ltd is a supplier of conveying machinery for various industries. The conveyors are manufactured in Sweden and Germany and are of a very high quality being heavy, strong and reliable in design.



We have recently completed a new bulk intake and delivery conveying system at Guys Marsh Prison in Shaftesbury in conjunction with Game Engineering. The scope of the project included designing an intake system for transferring woodchip to a storage bunker to fit in a very small footprint, due to restricted space on site. This problem was overcome by using The PST 'V' System Shaftless Spiral Conveyors. A dual spiral intake hopper which is fed by 30m<sup>3</sup> tipper transports the woodchip into a 6m Vertical Spiral conveyor which then feeds two distribution conveyors. The complete

load is emptied in under 30 minutes. The complete system is totally enclosed creating a clean and safe environment which was one of the main priorities for the project.

Our reputation for imaginative solutions to conveying problems and delivering to plan is something we are very proud of. Each and every installation is bespoke to the customer's requirements who we work very closely with throughout each project which creates an excellent working partnership.



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# Baioni crushing plants: improve your material handling efficiency.

Baioni Crushing Plants is the world's partner in the production of machinery for the mining and quarrying industries, recycling and contractor market, aggregate washing sector. All production and assembly phases are carried out by technical expert staff able to offer a high specialized support. Over a surface of 70.000 sqm Baioni Crushing Plants supplies means, tools and resources to achieve the final product, yet maintaining high qualitative standards and rapidity on execution. Continuous and meticulous quality checks grant the efficacy and efficiency of every product.

Thanks to the experience gained in the field, Baioni Crushing Plants provides heavy duty belting system for applications in mines and quarries, for such materials as ore, stone, tailings, gravel, aggregate, etc. Tested in Spring 2010 at the big installation known as "Quadrilatero", Baioni employed a reliable conveying system whose characteristics and features are described below.

## A full range

- Inclined conveyor belts: designed for use in conveyance of material up an incline, they are best used to transport aggregate to the different sections in a crushing plant.
- Bucket elevators: mainly used in sand production plants or washing plants.
- Extracting conveyor belts: usually used to extract the materials from feeding to crushing or screening.
- Horizontal conveyor belts: usually fitted with side walls and feet or trestles to convey aggregates horizontally.

## Main characteristics

Baioni conveyors are made of steel structures, protected from corrosion by hot dip galvanized with zinc deposition on the surface, the drive end and the tail end are preassembled in the workshop the intermediate parts consist of two side walls and the central frame and are designed to have small footprint during transport, yet not compromising the sturdiness and solidity of the belt. The shaft and the drum of the either end are not welded but fixed by some rigid couplings to ease any replacement in case of damage of some parts (i.e. brake of a bearing, etc...).

## Transmission

Direct transmission with helical gearbox, pulleys and belts. Electric motor equipped with hydraulic joint to



make the start of the conveyor sweeter, protecting the entire transmission. In its basic form Baioni belt conveyors consist of a driving head pulley, a tail pulley, the moving belt, support rollers, cleaning devices, tensioning mechanisms and a structural frame. The classic transmission system through motor, belts, pulleys and gearbox is the guarantee of the maximum flexibility of use, offering the possibility to adjust the speed according to every need.

## Main components

- Rectangular box-type frame (in modular sections).
- Rubber belt in rayon material coated with anti-abrasive rubber.
- Couples or terns of anodised rollers with easily changeable sealed bearings.
- Cambered drive and driven rollers; drive roller with rubber coating.
- Adjustable driven roller supports.
- Transmission unit.
- Belt scraper.

The positioning and support system can be carried out in two versions:

1. For « mobile » or « skid mounted » conveyors, short or medium length, support is available by means of a "V" shape trestle, mounted on a suitably load-bearing axle with tyres or a ground supporting beam.
2. For « fixed » conveyors, long length, support is given by vertical supporting trellis or by trestles with stretching steel cables.

## Standard accessories

Baioni conveyor belts can be equipped with the following accessories:

- Side gangway with safety rail.
- Sidewalls.
- Anti-wind or anti-rain cover.
- Upper and lower cover.
- Discharge chute.
- Removable feed hopper with rubber protections.
- Rollers with damping rubber rings to be fitted under the feed hopper.



Supplied as standard is a belt scraper, a strong and anti-corrosive cleaning unit for easy maintenance and maximum belt cleaning efficiency. Baioni Crushing Plants thinks it is vital to adopt a system of cleaning already in the conception of a conveyor, above all for those plants requiring a high standard of cleanliness. Baioni belt scrapers have an adjustable spring tension system: springs push the bar supporting the different scrapers, usually chosen according to the material to be processed. Amongst them, some scrapers have some widia inserts, highly resistant to abrasion and wear and particularly suited for abrasive and dirty materials. The use of belt scrapers reduce the loss of material, increase the plant capacity avoiding most of the wear of the return rollers, thus reducing maintenance costs and downtime.





Baioni Crushing Plants is dedicated to providing quality conveyors engineered to last; cleaner devices also come from a ploughshare shaped scraper usually placed on the tail end to prevent rollers from getting dirty and material from falling accidentally on the belt.

To promote long, trouble-free life to every conveyor Baioni Crushing Plants makes sure that the designer has designed it with quality components that can handle the entire range of forces generated in its use. One way to insure that is to engineer every part taking a load and then review the design calculations and the component selection.

Baioni Crushing Plants considers itself to be more than just a supplier. It offers real help and support to every customer, with whom it does its best to co-operate in a reliable and genuine manner, striving to achieve mutual satisfaction and success. Safety is also a big issue! Baioni conveyor belts comply with safety devices required under the EEC machinery directive 2006/42/EC. A corresponding declaration of incorporation and the relative use & maintenance manual is always supplied.



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## Flexco Introduces new state of the art test rig

**Flexco recently welcomed a new addition to its product development lab, which will accelerate the design and testing of new products. The 120,000 lb. capacity test rig will boost product development efficiency, making way for new concepts and solutions. While there are other test rigs in the industry, the custom-made rig was specifically designed by Flexco engineers to put a variety of products to work and measure the success and compatibility of each.**

The rig replaces the previous test rig, which was utilized heavily for the past 30-plus years at Flexco.

"The diversified product offering at Flexco, combined with increased belt tensions and the continuing evolution of belt construction, prompted us to invest in this new rig," Greg Westphall, director of engineering at Flexco, said. *"It's a one-of-a-kind machine designed and built by Flexco to enhance our testing platform and accelerate our design process."*

Westphall is quick to point out that, although the new rig is a significant upgrade from the previous one, it is not designed to replace field-testing. Instead, the new test rig ensures that products have undergone rigorous in-house testing before being placed in the field.

While the previous rig was focused mainly on testing mechanical belt fastening systems, the new rig will test the full line of Flexco products, including trackers, cleaners, plows, rollers, and lagging. Located in close proximity to the engineering department at the Downers Grove, Ill. headquarters of Flexco, the rig measures 24 feet (7.3 m) high and 12 feet (3.6 m) wide and weighs approximately 60,000 lbs.

The rig is modeled after the DIN-22110-2 Standard. It is equipped with six lagged 32" (800 mm) pulleys with a maximum belt speed of 1600 ft/min (~8 m/s). Belt widths from 8" to 32" (200 mm to 900 mm) can be tested, while tension can be cycled dynamically up to 120,000 lbs (533 kN) of force. The rig also features HMI touch-screen technology, hydraulically-actuated dynamic tracking, and a catwalk that hugs the perimeter of the machine for easy viewing and testing. The new design also allows for greater accessibility of data acquisition equipment, including high-speed cameras and vibration and force transducers.

*"While the capabilities of the rig are impressive, the size offers additional benefits," Westphall states. "When you can test cleaning, fastening, tracking, and other product functions all at the same time, you not only gauge the performance of individual products, but also their compatibility. This aligns with the Flexco philosophy of a holistic approach to maximizing belt conveyor productivity."*

**For more information on Flexco products, programs, or services, log on to [www.flexco.com](http://www.flexco.com)**

## Guttridge supply Carrier™ Cereals Handling Equipment for new Cereals Handling Project



**Guttridge's experience and reputation of manufacturing bulk material handling equipment has recently resulted in an order of Carrier equipment for a new installation in the Farming Industry.**



Working alongside the main contractor Chief Industries UK Ltd who designed the new plant and supplied a 75t/h dryer and a 100t/h aspirator for the project, Guttridge manufactured and supplied a range of Carrier 100t/h conveyors and elevators all of which were installed at Kneesall Lodge Farm which is part of the Thoresby Farming Estate.



Chief Industries UK Ltd have years of experience in the design and installation of grain handling facilities, from on-farm drying and storage to large port terminals and is the UK subsidiary of Chief Industries based in Nebraska, USA.

Choosing Guttridge to supply was a straightforward decision as the Carrier brand is well known and respected in the UK. Mark Temple-Global Sales Manager of Chief Industries UK Ltd, commented, *"This installation was particularly environmentally sensitive and we had to fulfil certain criteria with regard to noise emissions. As*

*well as supplying our own equipment to within given limits we were confident that the CARRIER range of equipment would fulfil our requirements and compliment our own high standards"*

Operating at 100tph material is fed into either of the 2 wet grain pits and is subsequently fed via chain and flight conveyor onto an inclined conveyor which feeds the aspirator pre-cleaner which removes dust, chaff, husks, awns and material lighter than the grain. From this point material is transported vertically by a belt and bucket elevator where it passes through a diverter valve and into the dryer with any overflow returned via a horizontal conveyor to the wet grain pit.

Dry product is then fed onto an inclined chain and flight conveyor which supplies the second belt and bucket elevator. As before material passes through a second diverter valve (same duty) and is then delivered onto an inclined conveyor onto the final 6000t store and bulk outload conveyor.

Although a relatively simple operation, the Carrier equipment provides a cost effective and reliable solution for this type of grain handling system.

Specifically built for cereals handling and storage on farms the Carrier range is now fully integrated into the existing Guttridge product ranges. Offering high quality at a low cost the new Carrier range of conveyors and elevators is designed for throughputs between 40-100tph of cereals. Suitable for handling a wide range of free flowing and semi-free flowing products the Carrier range has many applications throughout the Cereals Industry.

All the equipment was successfully installed and commissioned by Chief UK, including the PLC control system.



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## CMS Cepcor invests in the most powerful spectrometer in its class.



CMS Cepcor have purchased and installed a new Spectrotest mobile spectrometer analytical machine to enhance their in-house material testing and quality assurance.

The Spectrotest equipment will be primarily used for metal analysis for the precise identification of the chemical composition of alloys, design, quality inspection and auditing their vast stock inventory.

The purchase of the spectrometer is part of company policy to continually re-invest to ensure that CMS Cepcor UK remain the genuine alternative for crusher spare parts.

Spectro is one of the worldwide leading suppliers of analytical instruments and the Spectrotest is a high power universal metal analyser for use in the metal producing, metal processing and metal recycling industries. This instrument can be used cordlessly with the rechargeable battery pack in difficult to reach places, for the analysis of small parts, thin wires, curved surfaces or concealed welding seams.

Without doubt the most powerful spectrometer in its class it is an ideal machine for CMS Cepcor quality engineers who use co-ordinate measuring technology along with material testing to ensure CMS Cepcor crusher spare parts and wear parts are manufactured to exacting material standards.

With its innovative technology, the Spectrotest is up to the challenge of each of these assignments. At its heart is a plasma generator, special optic, new high performance read-out system and ICAL logic system; all innovative components that make the Spectrotest more precise, simpler and more reliable. Through combination with other high-quality components, the Spectrotest remains the most powerful spectrometer of its class.

CMS Cepcor are industry recognised as the genuine alternative to the original equipment manufacturer, offering cost effective solutions along with improved performance gained through continual research, development and product innovation.

## PIX MUSCLE Belts Ultimate Strength....with Green credentials

PIX's overwhelming desire to be at the "cutting edge" in this field has culminated in the launch of the MUSCLE range of belts. Put simply, the PIX MUSCLE belt is the ultimate V-belt - super-high power rating, maintenance-free and eco-friendly. Years of consultation with their customers and taking into



account the new requirements of the changing world we find ourselves in, has resulted in PIX providing the "perfect solution".

• These belts are produced to

comply with the latest REACH directives, RoHS regulations, and exclude all restricted chemicals as listed by the EPA in the US.

- The new belt compound does not emit any toxic substances, either during manufacture, or when running in use.
- The revolutionary design of the compound performs well in adverse conditions such as high temperatures, UV or Ozone exposure, and in chemically aggressive environments.
- MUSCLE belts show remarkable performance characteristics in terms of elongation and slippage - minimising energy loss and extending working life.

### Main Features and Benefits:

- Extremely high power rating - up to 35% more than a regular belt.
- Maintenance-Free - No re-tensioning required.
- ECO friendly - REACH compliant
- High efficiency - up to 98%.
- High tensile strength - resistant to elongation and breakage.
- Highly flexible - The standard construction allows the belt to "reverse bend" in drives with back idlers.
- Extended temperature range: from -25°C up to 120°C.
- Anti-static - complies with ISO 1813.
- Space-saving potential, when designing drives - less belts required.
- Longer service life, less down-time, reduced ownership costs.

PIX MUSCLE features a unique high power construction which minimises transmission losses at the lowest level. The composite high-modulus flexible layer supports a specially designed tension member around the circumference of the belt. Excellent lateral rigidity and a newly designed tensile cord structure gives MUSCLE its remarkable strength and resistance to elongation. The resultant decrease in slippage minimises energy loss.

The brand new compound used in MUSCLE belts has enhanced oil-resistant capability. This reduces belt degradation due to swelling when the belt is exposed to oils and grease. The compound also has a wider tolerance to extreme temperatures, preventing hardening and premature ageing of the rubber.

Commenting on the launch of MUSCLE, Operations Director for PIX Europe Stewart Booth said: "The new MUSCLE belt will be the flagship product for PIX and PIX Europe has been chosen for the worldwide launch of this range of 'ultimate' belts. The belt is the first of its type, combining three key features: Its 'Lean' due to its potential for space saving, longer service life and reduced ownership costs; 'Mean' due to its extremely high power rating and tensile strength, and 'Green' due to its Eco-friendly credentials. The MUSCLE belt gives PIX customers a market leading product that performs better and lasts longer than current products, saving time, money and the environment."



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## Hi-Force ToughLift Jacking System continues to carry its weight in the Mining & Construction Industries.

**Following the launch of Hi-Force's powerful jacking system in 2010, aptly named 'ToughLift', this 12 model range has proven to be an invaluable addition to Hi-Force's extensive product portfolio.** This new generation jacking system offers users the easiest and safest method of lifting material haulers in the mining and construction industry and locomotives in the railway industry. In industries where minimal maintenance and repair downtime of capital intensive equipment is essential, these ToughLift jacks are proving to be indispensable to Companies all over the world.

With lifting capacities ranging from 50 - 200 tonnes, and a choice of hydraulic lift height options on the 100 & 200 tonne versions it is no surprise that the ToughLift is the strongest and most versatile lifting jack in the market. Suitable for lifting even the largest earth haulers in the World, all models are powered by an integrated electric driven or air driven hydraulic pump unit and feature a remote, push button hand pendant control unit with a 5 metre control cable for easy operation, safely and remotely from the jacking point. The Hi-Force ToughLift jacking system incorporates a number of patented features, including a multi-positional transport & lifting handle and a unique swivel jacking base to guarantee safe and correct positioning of the lifting cylinder under the vehicle, prior to lifting it up. Fitted with large diameter wheels and solid rubber tyres for easy manoeuvring, all models are narrow in width, enabling them to fit into confined spaces whether in use or in storage, and have the smallest footprint size compared to all other competitor brand models. There is also a large variety of optional extras available to complement the range including mechanical load holding blocks, swivel load caps and mechanical locking and slip lock extensions, all of which add further safety features and



benefits to the operator. In addition, a range of hydraulic tyre bead breakers and ToughLift accessory toolbox trolleys complement the ToughLift range.

As the fastest growing manufacturer of hydraulic tools in the World today, Hi-Force continues to invest heavily in the Group's manufacturing facility as well as placing an emphasis on the research and development of new innovative products such as the ToughLift. As one of the latest additions to Hi-Force's comprehensive product range, the ToughLift has proven to be a great success, offering a safe and user friendly solution to the servicing and repair of some of the largest earth material haulers in the World.

For more information on the Hi-Force ToughLift range, please visit our website [www.hi-force.com](http://www.hi-force.com) where you can also find the contact details of Hi-Force's global headquarters and regional offices worldwide.



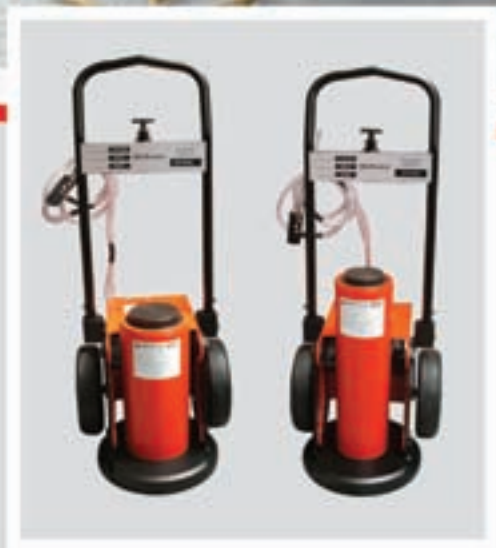
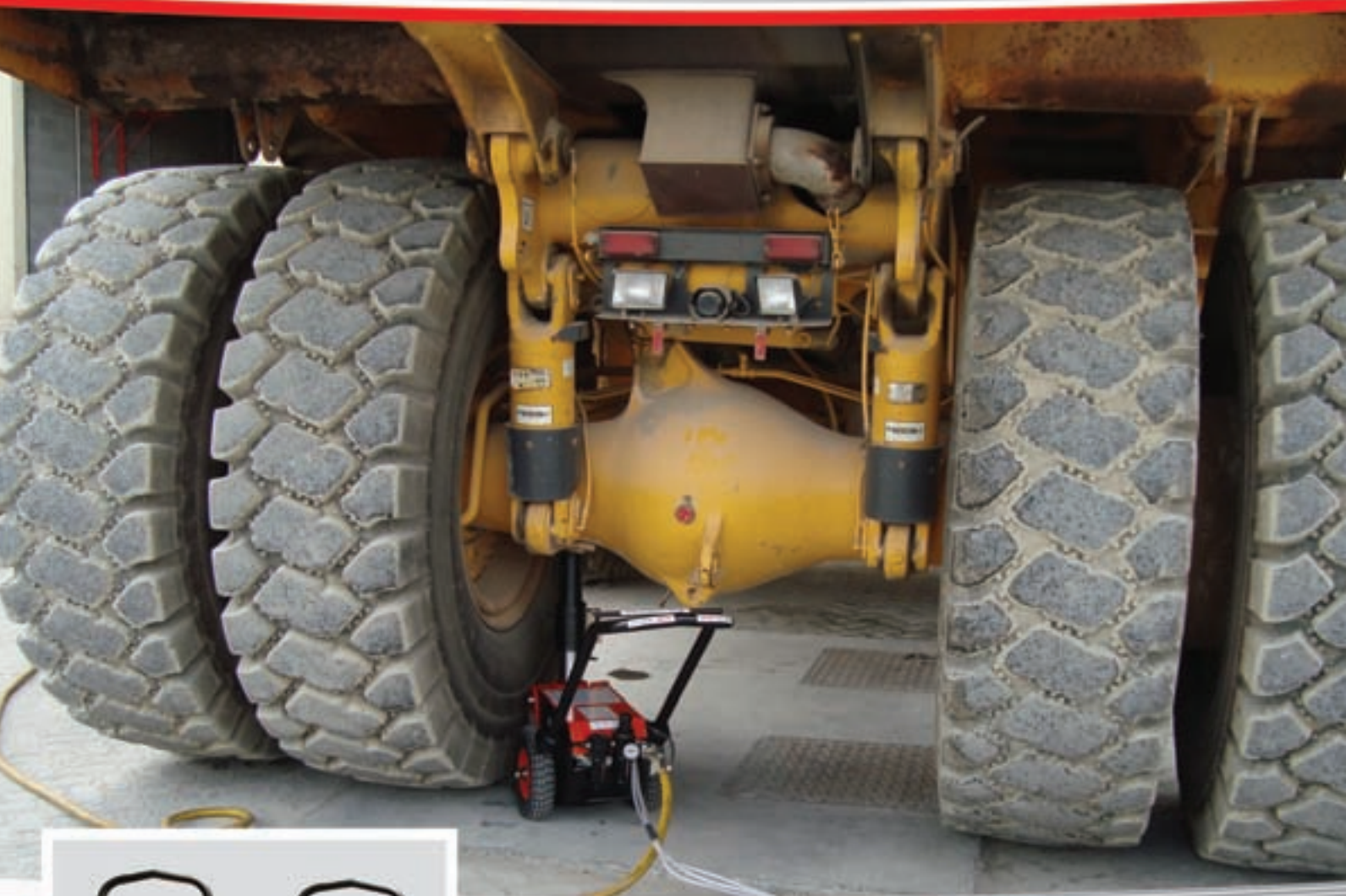
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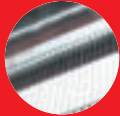
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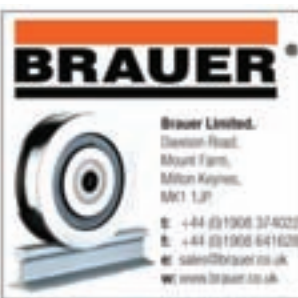


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