



Check out the very latest industry news at  
[www.hub-4.com](http://www.hub-4.com)

Issue 6

Materials Handling | Recycling | Quarrying

---

## Blue rebrands

---

Tel: 0845 230 4460  
email: [sales@bluegroup.co.uk](mailto:sales@bluegroup.co.uk)

---

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



# blue™





To be successful in today's quarry, sand and gravel operations, you need a partner that can supply competitiveness, not just equipment - Metso Minerals.



**Metso Minerals (UK) Ltd**  
Parkfield Road, Rugby,  
Warwickshire CV21 1QJ  
Tel: +44 1788 532100  
Fax: +44 1788 560442  
[minerals.info.uk@metso.com](mailto:minerals.info.uk@metso.com)

Unit 7 Block 532  
Greenogue Business Park  
Rathcoole, Co. Dublin, Eire  
Tel: +353 1 257 3119  
Fax: +353 1 257 3134



## Safety is THE issue

**A Bromsgrove company was fined £5000 after an employee suffered a serious injury when a 30 kg lump of sandstone fell on his head.** The Health and Safety Executive (HSE) prosecuted the company following the incident in March

2007. The victim had been working overtime at a power operated machine and went to clean it out when the large block of sandstone fell approximately 6 m, striking him on the back of the head. The chair of the company pleaded guilty to a safety breach. Although safety hard hats were provided, their use was not enforced and protective screens were not properly maintained. The HSE investigating inspector said: "Assessing risks and implementing safe systems of work, particularly on moving machinery, often only requires simple control measures but, in this case, screens, which may have prevented the boulder from entering the machine, were not sufficiently maintained. It is also obvious that workers should wear suitable head protection in an environment where there are large, heavy, materials swiftly moving along at high level."

In another case, a quarry company and one of its employees have been fined after an incident which 'could have killed' a worker. The company and the foreman admitted breaching safety regulations when they appeared at Bishop Auckland Magistrates' Court. The case followed an HSE investigation into the incident that happened in May last year. The victim was using equipment to suppress dust, when his clothes became caught in a machine. Dragged towards it he was saved only when his clothes ripped and released him. Earlier the foreman had removed a metal guard, which would have prevented the incident, because it was broken. The victim, who is still employed by the company, was in hospital for six days having suffered severe bruising to his body and back, three cracked ribs and bruised lungs. The HSE inspector, who investigated the incident, said that if the victim's clothing had not ripped, he could have been killed. He added that a risk assessment in 2004 had identified the need for daily, recorded checks on the machinery. "It is reasonable to expect that had the damage to the guarding been identified during earlier checks, the problem would have been rectified prior to this incident," he said. The court fined the company £3000 and £1756 in costs. The foreman, who had instructed the victim to operate the unguarded machine, was fined £1200 and ordered to pay £500 costs.

Two stories that demonstrate how regular maintenance and safety checks could have prevented accidents and subsequent fines. Fortunately, neither of these instances resulted in a fatality but in the event of such a tragedy the Corporate Manslaughter and Corporate Homicide Act 2007 places an even greater onus on management to ensure safety on site and yet one year after it came into force it seems many still do not fully understand the risks, as this issue of Hub 4 discusses along with highlighting other safety issues. As the QPA's updated reportable injury figures for 2007 reported in the news section demonstrates, real progress in safety can be made in the sector.

**Ross Matthews** - Editor

## CONTENTS

<b>NEWS</b>	page 2
<b>COVER STORY</b>	page 8
<b>RECYCLING</b>	page 11
Recresco solves aluminium problem Recycling plant provides a tailor-made solution for MSK €1m plant solves sticky problem Hadley's raise recycling rates by investing in new plant Waste Industry feels the grab of material handlers Soil and rubble gets a recycling boost	
<b>NEW ON SITE</b>	page 19
Soil stability without landfill WM Briers invests in Doppstadt shredder Sizers and feeders to Oman Nirox supply new rotary grizzly plant to the Hi-Quality Group Hanson takes delivery of a new 180 tonne dragline Just the job for Dust suppression	
<b>QUARRYING</b>	page 25
Old meets new from quarry to rooftop Lengthened vibratory feeding conveyors New screening media from Tema Isenmann Trucks assist in Scottish Quarry restoration Hogan Aggregates' Gwyndy Quarry repeats dump truck order	
<b>SAFETY</b>	page 32
Are you driving home the safety message? Problems with Quick Hitch training addressed Newsletter focuses on excavator attachments Quarrying industry progresses towards zero accidents Foam dust suppression helps resolve dust issues at Bardon Hill	
<b>MOBILE PLANT</b>	page 38
Ennstone switches to mobile crushing Mobile versus static: an easy choice? First mobile IQR FlexHammer 1800 in the UK Metso launches a new mobile waste crusher This is no monkey business Special feeder designed for use in mobile plant Starscreen goes mobile	
<b>MATERIALS HANDLING</b>	page 49
Instrumental in maximising potential New hot asphalt storage extension for Lafarge Ashbury Depot Biomass handling demands a tailored solution	
<b>PRODUCTS</b>	page 54
<b>FINANCE</b>	page 55



Hub Digital Media Limited  
33 Church Street, Rickmansworth, Herts WD3 1DE

### Summer 08

**Ross Matthews** - Editor  
07711 347701  
Email: ross.matthews@hub-4.com

**Lloyd Arkill** - Contributing Editor  
01923 777897  
Email: lloyd.arkill@hub-4.com

**Daren Thomas** - Sales Manager  
0845 680 0024  
Email: daren.thomas@hub-4.com

**Linda Rainbow** - Sales & Marketing Administrator  
0845 680 0024  
Email: linda.rainbow@hub-4.com



## Scottish Waste Industry takes delivery of Neuenhauser Tracked Star Screens.



Two of the major players in the Scottish waste industry have recently taken delivery of Neuenhauser Tracked Star Screens for the screening of green waste and wood for biofuel.

Scottish Water have taken delivery of a 3 Fraction Tracked Star Screen at their Glasgow site and Keenan Recycling based outside of Aberdeen have taken delivery of a 2 Fraction Star Screen.

The Neuenhauser Star Screen is becoming well favoured by companies throughout the country as it screens at high tonnages in all weather conditions.



[www.hub-4.com/directory/2310](http://www.hub-4.com/directory/2310)

## Investment boost for construction waste recyclers

Recycling businesses working to divert construction industry waste from landfill are being offered the opportunity to boost reprocessing capacity by applying for funding through the new capital grant programme launched by WRAP (Waste & Resources Action Programme).

The new capital grant scheme is a competitive process designed to facilitate investment that will lead to increases in operators' additional capacity to process construction, demolition and excavation (CD&E) waste from construction sites. This investment is primarily focused on inviting applications from new installations but could also support improvements in the recovery efficiencies of existing materials recycling facilities (MRFs) and processors.

David Connor, material recycling project manager for WRAP explained: "The purpose of this Capital Grant Programme is to provide grants that will help develop the capacity needed to recycle construction demolition and excavation waste. We are specifically interested in proposals that will significantly increase the quantity and quality of CD&E waste materials recovered, separated and recycled from construction sites, and which can act as exemplars to encourage greater investment in recycling capacity."

Initially targeting England, with a view to launching a separate programme for Scotland in the autumn, the WRAP CD&E waste Capital Grant Programme covers a range of materials, including - but not restricted to - off-cuts and waste timber, plastics, glass, packaging waste and inert materials such as soils. It is open to companies wanting to develop new or existing CD&E waste processing and recycling facilities and provides up to 30% of the total costs of plant, equipment and infrastructure.



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



## Metso strengthens research and testing

Metso Minerals has strengthened the rock analysis and testing activities at its Tampere facility in Finland with the opening of a new research centre. Comprising a state-of-the-art testing plant, a rock laboratory and sample measurement and analysis equipment, the research centre employs 20 people and is the result of a €3 million investment by the company. "The Tampere research and test centre represents Metso Minerals' largest individual investment in research and development. Once it is commissioned, most of the company's rock testing and analyses will be carried out in Tampere," said Metso Minerals' VP for Research, Jarmo Eloranta. Smaller-scale rock testing will be conducted at Metso Minerals' units in France, United States, Brazil, India and New Zealand.



The new research centre will crush, screen and analyse several dozen rock samples sent each year by customers from around the world. The analysis results can be used to plan the most suitable crushing and screening processes for fulfilling customers' local needs.

The centre will also form an essential part of Metso Minerals' own product development and research activities.

"As an example, it will help us launch new crusher models faster than before. In addition to the latest equipment, testing is dependent on competent staff and the use of modern test planning methods, which we have invested into heavily in recent years," Eloranta continues.

The test facility is largely automated: after computer-controlled crushing and screening, rock samples can be analysed for crushability, abrasiveness, impact resistance, brittleness and solid density.

There is also a rock laboratory equipped with a range of testing devices. A fully-equipped van is at the centre's disposal for making strain gauge, capacity, power consumption and noise measurements in field conditions.



In addition to the €3 million investment in the new research centre, Metso Minerals has recently invested a further €5 million in an extension to the Tampere facility's Lokotrack mobile crushing plant assembly line, and €2 million in the mechanised wear part production line at its foundry.



[www.hub-4.com/directory/560](http://www.hub-4.com/directory/560)

## Strategic London plant for CEMEX

CEMEX has begun its 2008 ambitious national investment programme in the UK with a new concrete plant at one of the capital's busiest sites off Butchers Row, Stepney in East London.

The £2.2 million investment will see the existing plant be replaced by a new plant with the highest output in the UK, producing some 180 m<sup>3</sup>/h - enough to fill two double decker buses - while ensuring product quality and consistency for construction customers. The investment is estimated to total over £65 million in 2008 (up £5 million from 2007), across the aggregates, cement and ready-mixed concrete operations. The plant has been designed to produce high volumes and satisfy the ever-increasing market requirements for higher strength concretes. It will be complemented by a facility for out-of-hours cement and aggregates deliveries to ease congestion and two concrete 'recyclers' to reduce waste disposal and recycle surface water in the concrete mixes.



[www.hub-4.com/directory/6953](http://www.hub-4.com/directory/6953)



## Bell to roll-out depot expansion

Bell Equipment is planning to open two new UK depots as part of its on-going expansion plans. The locations for the two new service and support depots are yet to be finalised, but the ADT manufacturer is looking at possible sites in the south-east of England and South Wales respectively. The move follows the successful launch last year of Bell's new depot in Falkirk, Scotland. Both of the other planned Bell depots are expected to be up and running within the next 12-18 months.

Neville Paynter, managing director of Bell Equipment UK, said: "The move to expand into Scotland has shown customers north of the border that we are serious about providing an excellent after-sales service. This planned expansion into the south-east and Wales is further demonstration of our commitment to customers' needs."



**Bell UK is set to further expand its nationwide field service engineer and support coverage**  
**Neville Paynter, managing director, Bell Equipment UK**



[www.hub-4.com/directory/107](http://www.hub-4.com/directory/107)

## Difficult times ahead for building block companies

**Since its 2003 peak, the building blocks market has fallen every year with the only respite being in 2007. Last year, the building blocks market increased by 2%. However, sales began to fall at the end of 2007.** Early indications in 2008 suggest a significant fall in demand in the current year, with March being a particularly disappointing month. A total of 10 building block plants have closed in recent years as the industry adjusts to lower volumes.

These are some of the conclusions of the bi-annual report on the industry published by BDS Marketing Research. The report entitled 'Estimated outputs and shares of building block companies' finds that in recent years although the total housing output has remained fairly static, the growth of smaller dwellings has affected demand for many building materials. Block companies have also been hit by the growth of timber frame and the development of other walling materials and systems.

The growth of flats and apartments now appears to have reached a peak. A trend back towards houses will benefit building block companies. However, current uncertainty over the housing market as a whole - a key sector for block suppliers - could affect block companies for the next 12 months. Tarmac continues as the largest building block company, with a share of the market approaching 20%. The top five companies identified by BDS are Hanson, H&H Celcon, Cemex and Aggregate Industries, which together, are estimated to have around 60% of the market.

**Another latest report from BDS**, entitled 'The waste management market in Great Britain - its structure, markets and prospects', has found that major investment is needed in the UK waste management industry. With less than 60% of municipal waste now sent to landfill, waste management companies in the UK need to invest in alternative technologies if government targets are to be met. Just eight years ago, over 80% of municipal waste was landfilled. Companies are already responding according to the report, which identifies over 250 companies that compost waste. Around 3 million tonnes are expected to be composted in 2008. A further 5 million tonnes of waste are now being sent to Energy from Waste plants, and up to a further 1 million tonnes to mechanical and biological treatment plants. This is out of a total annual waste market of around 180 million tonnes handled by various disposal routes.

The 150 page report assesses the current state of the industry. After an analysis of trends in waste arisings of inert, municipal, industrial, commercial and hazardous waste, the report reviews each sector that disposes of waste. BDS estimates WRG as the largest landfill company, whilst Veolia leads in the Energy from Waste sector, SITA in composting, and Shanks in MBT. Biffa is thought to be number two in both landfill and MBT. The marketing consultancy has also identified a further nine EfW plants planned and 10 MBT plants likely to be built.



[www.hub-4.com/directory/106](http://www.hub-4.com/directory/106)



## QPA Showcase 08 places spotlight on a responsible and essential industry

*Eton Aggregates' Dorney Lake, winner of the Chairman's Trophy*

**QPA held its Showcase 08 event on 3 July at the Royal Lancaster Hotel in London. The provocative event, attended by an audience of over 470 key stakeholders and industry delegates, took an issues-driven approach to highlight major successes in the industry as well as exploring challenges ahead.**

Hosted by Channel 4 broadcaster Krishnan Guru-Murthy, the event featured live presentations on stage and pre-filmed pieces offering an insight into the industry. The event also served as both a platform for the chairman to update on progress against the Carbon Reduction Statement of Intent and for the QPA to make a new pledge to significantly expand its work on biodiversity. New research from the QPA has revealed that the industry's land holdings amount to over 300 sq km – equivalent to the area of a National Park such as the Norfolk Broads. This land provides real opportunities for the industry to increase its contribution to UK biodiversity.

Simon van der Byl's the QPA's director general's announcement included: a commitment to develop a biodiversity strategy setting out how the industry's contribution to biodiversity can be further improved; a drive to ensure the industry is visibly regarded as a key contributor to UK biodiversity targets; and dedicated work QPA members and stakeholders to identify action required for the industry to contribute to national biodiversity and SSSI targets

**Hanson Aggregates' Otley Quarry gained top prize for outstanding quarry restoration to win the Cooper-Heyman Cup**



The event also presented the QPA Restoration Awards, now in their 38th year, with the winners being announced by special guest Graham Wynne, chief executive of the RSPB. The awards celebrate the steps operators continue to take to restore quarried land to beneficial after-uses and reward some of the best examples of sustainable practice. From the eight entries, Hanson Aggregates' Otley Quarry in West Yorkshire, which has been transformed into a first class nature reserve, won the coveted top prize for outstanding quarry restoration: the Cooper-Heyman Cup. The former sand and gravel operation displayed leading practice on restoration for wildlife, going far above and beyond the level expected by planning authorities.

The Chairman's Trophy was awarded this year to Eton Aggregates' Dorney Lake in Berkshire for the exceptional social contribution it has made, locally, nationally and internationally. Dorney Lake has been restored to a 2200 m Olympic standard rowing course, park, arboretum and nature conservation area, and will be used for the 2012 Olympic rowing and canoeing events. Eton Aggregates a consortium featuring QPA members CEMEX, Lafarge and Tarmac.

In his speech Graham commented that the quarrying industry had already demonstrated some wonderful examples of restoration, but he challenged operators to go even further in their contributions towards national biodiversity.

Lynda Thompson, QPA chairman, commented: "The 2008 entries to the awards have been highly impressive and our winners thoroughly deserve their prizes. These awards show just how much our industry can achieve through restoration to promote biodiversity and benefit the local community".



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

## Terex wins A-Plant's 'Supplier of the Year' award

Terex Construction UK won the 'Supplier of the Year for Plant' award at A-Plant's Annual Conference 2008, held on May 19 in Celtic Manor, Newport. A-Plant's senior purchasing manager, Tony Grimshaw, believes this was due to Terex Construction UK's recent realignment. He said: "Since the business changes were made to Terex within the UK, the company has made big strides in terms of their warranty and aftermarket support."

**Plant's Senior Purchasing Manager Tony Grimshaw (left) and Chief Executive Officer Sat Dhaiwal (right) present Terex Account Manager Pete Barfield with the Supplier of the Year for Plant award.**



[www.hub-4.com/directory/8887](http://www.hub-4.com/directory/8887)





The NIROX Rotary Grizzly increasing efficiency and keeping production rolling

NIROX leads the way in developing flexible solutions for producing riprap and gabion stones with the largest model capable of handling up to a 1.5M lump size and processing 1000tph of material. The **RG 900 series** can also be configured for high capacity scalping operations which greatly increase the effectiveness of crushing operations and reduce on site haulage costs.

The new **NIROX TRG 403** tracked unit offers mobility and high productivity. Combined with the ability to handle the most difficult damp and clay ridden applications the **TRG 403** will extend the life of existing quarry sites that are currently considered unviable as well as reclaiming good quality stone products from disused sites.

Please contact us for more details.



8 Bendooragh Road | Ballymoney | BT53 7NF  
Northern Ireland | T: +44 (0)28 2766 8855 | F: +44 (0)28 2766 8633  
Email: [sales@niroxtrommels.com](mailto:sales@niroxtrommels.com) | Website: [www.niroxtrommels.com](http://www.niroxtrommels.com)



## Volvo's first quarter highlights

Despite a shrinking North American market and cooling demand in Europe, Volvo Construction Equipment enjoyed a strong start to 2008. The first fruits of its recent acquisitions and cost efficiency initiatives were on display in Volvo Construction Equipment's first financial quarter of 2008, with both sales and income leaping by 38% when compared to the same period in 2007. Net sales in the first quarter amounted to SEK 15,140 M (SEK 11,002 M in Q1 2007). Operating income increased to SEK 1,301 M from SEK 946 M in the same period in 2007.

One particular highlight of the first quarter of 2008 for Volvo Construction Equipment was the unveiling of its first hybrid wheel loader. Demonstrated at the industry's Conexpo exhibition in Las Vegas in March, the L220F Hybrid boasts a 10% fuel saving and a range of environmental benefits. When deliveries begin in late 2009, it is expected to be the construction industry's first commercially available hybrid wheel loader. The L220F Hybrid received an enthusiastic reception from both customers and media alike for its enhanced performance, fuel efficiency and environmental benefits.



[www.hub-4.com/directory/876](http://www.hub-4.com/directory/876)

## Gearbox manufacturer announces service partnership

Taylor & Goodman has been appointed as Hansen Transmissions' Approved Service Partner. Pete Ryder, managing director of Taylor & Goodman said: "We are delighted to be working alongside such a well established and reputable company as Hansen Transmissions. The partnership will benefit both companies and, most importantly, our customers, who will be able to enjoy an even better level of service of the repair or replacement of their geared units."

Following a period of training, Taylor & Goodman will take on responsibility for the service and repair work for part of Hansen's S4 range of geared units, whilst Hansen will continue to service and repair the larger gear units.

Gary Bills, Hansen Transmissions' After sales & service manager commented that "due to the geographical position of their branch network and the close nature of their relationship with end users, Taylor & Goodman proved to be an ideal partner".



[www.hub-4.com/directory/379](http://www.hub-4.com/directory/379)

## Driving ahead

On the back of strong demand, particularly in the compact engines sector, new orders at Deutz in 2007 saw a year on year increase of 22.2%; unit sales climbed to 285,861 engines, a rise of 20.8%, with group revenue increased by 28.8% to EUR 1,524.2 billion - driven primarily by international business growth. Overall nett income was also significantly boosted by the sale of Deutz Power Systems, as part of the company's strategy for a more concentrated focus as an independent manufacturer of compact engines. This more positive concentration was reflected by significant growth in the compact engines sector, where new orders increased by 26.7%, with unit sales up 25.0%.

Deutz AG-UK branch manager, Klaus-Ulrich Klinger, said: "In keeping with the overall Group strategy, we have concentrated on further improving our customer service and strengthening the company's position in the British market - particularly with major OEMs, plant hire groups and large fleet operators - with an enhanced distributor network providing more localised sales, service and parts support to the ever growing number of other UK customers."



[www.hub-4.com/directory/230](http://www.hub-4.com/directory/230)

## Precia-Molen purchases Nova Weigh



Precia-Molen has recently completed the acquisition of weighing company Nova Weigh. Nova Weigh offers tailored solutions in vessel weighing and process management in the petrochemical, pharmaceutical and food industries. Precia-Molen specialises in industrial weighing, both static and dynamic within the minerals, cement, waste and agricultural industries. The acquisition

forms part of Precia-Molen Group's strategy, and will establish Precia-Molen UK as a fully integrated weighing company offering end-to-end customer solutions.

John Swinburne, MD, Precia-Molen UK, commented "The acquisition of Nova Weigh will not only benefit our core business but will open up new markets for the company. The integration of the two companies will also enable us to provide enhanced levels of service, maintenance and technical back-up for our customers throughout the UK and Ireland."



[www.hub-4.com/directory/683](http://www.hub-4.com/directory/683)

## Acquisition results in premium mining and civil training

Immersive Technologies has acquired Perth-based Mining Training Services (MTS) to help address the Australian mining and civil industries shortage of operators.

MTS is a registered training organisation with a history of providing high quality training to the mining and civil industries on mobile plant. MTS will now be known as Immersive Operator Training.

"Immersive Technologies saw the opportunity to combine its world leading equipment simulators with a quality training provider to deliver industry a unique range of training services to help address the shortage of mobile plant operators," said Rob Gourlie, executive divisional manager, Immersive Operator Training.

IOT now delivers nationally recognised training courses that include advanced simulators that are approved by the mining equipment manufacturers, real machines and theoretical knowledge all delivered by experienced and qualified trainers on a working quarry training site conveniently located just 30 minutes north of Perth.



[www.hub-4.com/directory/8985](http://www.hub-4.com/directory/8985)

## BAA hopes for a better deal over archaeological pre-determinations with the new industry/heritage Practice Guide

Ahead of the recent formal launch of the Mineral Extraction and Archaeology: Practice Guide on 15 May 2008, hosted by Lord Redesdale, Secretary, All Party Parliamentary Archaeology Group (APPAG), and the CBI Minerals Group, BAA carried out a further member survey on the impact pre-determination archaeology before mineral planning consent was having on its members.

Peter Huxtable, BAA Secretary said: "We had some 20 responses (a third of our operating membership) with 15 experiencing both costs and time delays, and predominantly a problem with sand and gravel sites and in England. Whilst there has been a slight lull and no increases since 2004 for our members, it is an area of cost and time where there was little problem before 2000."

BAA strongly welcomed the initiative of the Minerals and Historic Environment Forum in preparing and agreeing this guide, which is intended to be clear and practical guidance for mineral planners and operators, archaeologists and consultants - and supplements government guidance and the CBI Code.



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

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





# So Good Everyone Wants One!



# CDE

“Committed to engineering excellence”

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

CDE, 25 Napier Court, Gander Lane, Barlborough Links, Chesterfield S43 4PZ  
Tel: +44 (0) 28 8676 7900 | Fax: +44 (0) 28 8676 1414 | E-mail: [info@cdeglobal.com](mailto:info@cdeglobal.com)

# The UK's Leading Crushing, Screening and Recycling Equipment Distributor Rebrands



Since Blue Machinery PLC was formed five years ago by the amalgamation of four well-established Powerscreen distributors in England, Scotland and Wales, the company has grown exponentially. Now a £60 Million turnover group, with a world class portfolio of dealerships and plans in place for further expansion - including new distributorships and a building programme to extend many of their regional depots and after sales operations - Blue has researched its corporate identity in great depth, resulting in a complete rebranding as part of its strategy for the future. The Group's new logo has been simplified to look more professional and is being introduced right across the organisation's livery, stationery and promotional material.



However, the rebranding exercise is not solely the creation of a new logotype. In setting the new standard, Blue is keen to emphasise that this is only part of the latest development stage in corporate growth and in no way changes the way it serves the quarrying and recycling industries in its designated dealership areas. The Group's product ranges are all leading brands from global OEMs and Blue recognises that the equipment it sells is, arguably, a first choice in processing machinery for the quarrying and waste recycling industry. The message from Blue now encompasses the expertise, experience, service and partnership angles which have always been the Group's tenet and which they feel need greater emphasis. So, says Blue, the organisation is stressing that they are not merely a company that just sells equipment but a cohesive entity that provides solutions, with the right advice prior to purchase for customers to get exactly what they need to do the job on time and on budget.







As part of the rebrand, Spares UK has been changed to Blue Spares in order to reflect the company's fresh approach. With the promise to offer the very best service to their customers, huge investment has been made on new premises, larger stockholding and qualified personnel. The recently appointed Sean Warburton has been brought in as commercial manager to bring a fresh approach and to drive the business forward in new directions. Sean's remit from the Blue Group board of directors is to further increase the focus on proactivity in meeting customers' needs and help to minimise downtime even more by improving prompt, off-the-shelf parts delivery right across the range.

The swift and efficient provision of genuine spare parts for all the products marketed by the group is just one of the many areas of operation being further enhanced and enlarged by Blue. The recently formed Blue Advanced Technologies

division was setup specifically to look after the groups offering of balers, optical sorting systems and tyre shredders. In order to provide the very best solutions, Blue felt a dedicated team should be setup to deal with these specialist products.

The versatility of the products and services Blue provides to the British quarrying and recycling industries has seen the group expand at a remarkable rate in the past five years. Their recently redesigned and interactive website ([www.bluegroup.co.uk](http://www.bluegroup.co.uk)) explains it all and is well worth a visit for the latest product information, special promotions on spares and an ever-changing catalogue of pre-owned equipment. Have a look and sign up to be kept up to date with current developments in the industry.

With all these exciting changes, it appears that Blue is set to go from strength to strength.



# blue™

Tel: 0845 230 4460  
email: [sales@bluegroup.co.uk](mailto:sales@bluegroup.co.uk)

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





Engineered for maximum productivity



Taking productivity to new heights



Flexible solutions



Breaking new ground

## Product Range in Action

For more than 140 years, Sandvik has been investing heavily in research and development so that we can make our customers more productive. Sandvik continues to offer world-class equipment, tools, service and technical solutions for exploration, excavation and processing of rock and minerals in the mining and construction industries.

Sandvik holds a world-leading position in the industry. Our high level of availability and in-depth knowledge of customer processes gives us a substantial competitive edge. Sandvik offers the market's most advanced and complete product range, and a solution approach that contributes to increasing performance and productivity for our customers.





## Recresco solves aluminium problem



Glass going over the ECS rotor

Keen to respond to customer requirements within its glass cullet recycling, materials recycling company Recresco needed to provide cleaner glass without aluminium contamination at its Southampton sortation plant.

After discussions at the beginning of 2008 regarding the technical specification of the MasterMag ECS unit, Recresco ordered the largest Eddy Current Separators (ECS) unit in Master Magnets' current range together with the spreader feeder, to handle 25 tph of glass cullet. Following delivery of the unit in April Recresco found that not only was it easily coping with the throughput but the adjustability of the unit also enabled the Recresco engineers to tailor the separation to meet exactly its high standards of segregation.

Recresco requested a quotation for installing ECS units at its three other current UK recycling centres.

With updates to its Ellesmere Port site being undertaken Recresco was keen to install the best system to remove the residual aluminium. An order had been placed for an 'all-metal detector' from the US, however after monitoring the Southampton site Recresco found that the large investment for the system was not going to be as cost effective as spending the money on the three ECS units.



Looking down on the ECS plant

By the beginning of May Recresco cancelled the US order and placed the order with Master Magnets for the three extra systems. The Ellesmere Port contract is a rush order and, together with the other units, is currently in design and manufacture at Master Magnets. Each unit is being tailored to meet the requirements for the individual plants.



ECS on site with plant engineers

## Recycling plant provides a tailor-made solution for MSK

Looking to increase their C&D recycling capabilities, make further reductions to tip-to-landfill volumes and boost their output of saleable reclaimed materials, MSK Waste Management & Recycling of Barking, Essex opted for a bespoke combination of a finger screening plant, a series of conveyor systems, two under-cover picking stations, an overband magnet and a blower separator. The whole plant was specifically designed and configured by Blue Machinery (London) to suite material flow and materials to be treated, while conforming to the shape and area of the designated site for the plant. The system was installed earlier this year and is already proving to be an efficient, productive and reliable investment for MSK.



Installation of the GK Finger Screen plant



Primary picking station

director Robert Armstrong. MSK Waste Management sources raw waste material from a variety of loyal clients in the region – including major nationals, industrial and commercial concerns, demolition, dismantling and refurbishment specialists. The Barking recycling operation currently handles between 4000 and 5000 tonnes of commingled C&D waste per month and, with its new plant now well bedded in, is reporting highly satisfactory reclamation rates. "We're keeping a close eye on the performance of our new recycling plant at Barking," says Robert Armstrong. "Working two shifts round the clock, Monday to Friday and also on Saturday mornings, we are regularly reclaiming in excess of 75% recyclable materials. Our target for the immediate future is 80% and, hopefully, we'll further improve on that figure very soon. The recycling plant is performing very well for us," he concludes.

The MSK recycling plant is U-shaped in configuration with raw mixed waste materials initially being screened, then conveyed through two picking stations incorporating a blower and overband magnet system to produce sorted clean recycled materials for onward sale. A GK Finger Screen model 1513 is the first point of treatment for the incoming C&D waste. This screening plant provides multiple sized separation of the mixed waste. Specified materials are discharged via the Finger Screen's own side conveyor onto a transfer and stockpiling conveyor system direct into holding bays. The other mixed materials for manual sorting are discharged onto a 14 m long and 1400 mm wide chevron belted inclined tail conveyor to the primary picking station belt. This covered station has five bays for the picked recyclables and a blower system at the end for removal of 'lights' such as polystyrene, plastics, paper. From there, the material flow takes a left hand turn, with the remaining conveyed material passing underneath an overband magnet which removes all ferrous materials and thence to the two-bay secondary picking station. Here, general rubbish and alloys are sorted and dropped into bays below, with the remaining clean hardcore material stockpiled at the end of the picking station conveyor.

MSK (Multi Services Kent) Group has been providing a range of key services to the construction and allied industries for over 30 years, including logistics and labour, plant and tools, access control, soft strip and, more recently, waste management and recycling. The group's recycling interests were originally instigated around 5 years ago, as a natural adjunct to the existing activities. MSK Waste Management & Recycling recently came into being as a separate company within the group and is headed up by







# Hewitt Robins.

**For more than 100 years.  
Over 20,000 Machines.**

Since 1891, Hewitt Robins has maintained its tradition as the worlds leading manufacturer of vibrating screens and feeders - through customized solutions and a solid focus on putting the customer first.

Our customer relationships - developed over years of intense customer support, consultation and service have resulted in on going improvements in the design, engineering and customisation of Hewitt Robins feeding and screening equipment.

The Hewitt Robins network guarantees you local service when you need it, providing service work, installation and parts back up. To rediscover the world's oldest and most reliable screen & feeder manufacturer visit: [www.hewittrobins.co.uk](http://www.hewittrobins.co.uk)



**Hewitt Robins International Ltd,**  
Huntingdon Court, Huntingdon Way,  
Measham, Derbyshire, DE12 7NQ  
Tel: 00 44 (0) 1530 272799  
Fax: 00 44 (0) 1530 272787  
Email: [Sales@hr-int.co.uk](mailto:Sales@hr-int.co.uk)

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





# £1m plant solves sticky problem

**A new £1m sand washing plant from CDE is producing high quality building materials in Estonia from what had previously been a waste product. The plant was purchased to process material that was simply being stockpiled as waste as a result of the high clay content. This same material is now being sold on the Estonian building materials market as high quality, fully certified sand and aggregates.**

Eoin Heron, CDE's European sales manager says: "The quarry has been stockpiling this material for 50 years, since the quarry began operations, and in this time they have not been able to find a system capable of processing it. We are delighted to be able to say that our plant is proving to be a great success."

The new plant, supplied by the County Tyrone company is located in Estonia's capital, Tallinn in a quarry operated by the country's largest producers of crushed limestone products, Paekivitoode Tehase (Limestone Products LLC). The plant was officially unveiled last week at a gala ceremony attended by many local dignitaries, environmental bodies and industry representatives. Guests also included the British Ambassador to Estonia, Peter Carter.

CDE won the contract for this new plant in partnership with their recently signed distributor for the region, Baltern. The CDE plant is the first of its kind in Estonia and marks the birth of new sand processing technologies in the region.

Commenting on the introduction of this new technology, the chairman of Limestone Products LLC, Vladimir Libman says: "Our company has developed a reputation for innovation which has been the foundation of our success in recent years.

The introduction of CDE's technologies to Estonia is the latest example of our commitment to the development of our business through the adoption of the best systems available to us."

Speaking at the event, CDE's sales director, Enda Ivanoff says: "We are very grateful to Mr Libman and his company for providing us with this opportunity to introduce our systems to the market in Estonia. We will continue to work together over the coming months and years to ensure that this plant continues to perform at the highest possible level, thus guaranteeing increased revenues for the company."

This latest international project is a further sign of exporting success for CDE, who were awarded the 'Excellence in Exporting Achievement' award by the Institute of Export recently. Since the beginning of 2007 the company has supplied equipment to a long list of new markets including Estonia, Poland, the USA, Trinidad, Bahrain and Turkey.

"We began to look at the development of our export business in 2004 and since then we have made significant progress," states CDE's managing director, Brendan McGurgan. "As well as the new markets we have developed in the last 18 months, we also have some well established markets in various countries in The Middle East as well as an office and manufacturing facility in Kolkata, India set up in May 2007 to service this region."



[www.hub-4.com/directory/163](http://www.hub-4.com/directory/163)



Terex® Finlay J-1175 Jaw Crusher feeding a Terex® Finlay C-1540 Cone Crusher

# ONE STRONG NAME, MANY STRONG SOLUTIONS

**At Terex Finlay, we believe in offering solutions!**



With one of the widest ranges of crushing and screening equipment in the industry, Terex Finlay have the capability and knowledge to provide real business solutions - designed for your business needs! That is why we have been in business for over 50 years!

Because we know your priorities, our equipment is developed with you in mind keeping high tonnages, robustness, ease of use and low wear costs at the centre of our design. All machines are built to exacting standards using the latest technology and the results speak for themselves.

We are happy to be of service to you and because we understand your business, we are confident in the solutions that we offer. Become one of our many success stories and learn what Terex Finlay has to offer you!

Finlay Group Ltd  
Lakeside House, Ladford Covert Industrial Park, Seighford Stafford ST18 9QL  
Tel: +44 (0) 1785 282323 Fax: +44 (0) 1785 282991  
E-mail: [Sales@Finlay-group.demon.co.uk](mailto:Sales@Finlay-group.demon.co.uk)

HEAD OFFICE  
Drumquin Road, Omagh, Co Tyrone, N.Ireland. BT78 5PN  
Tel: + 44 (0) 28 82 418 700 Fax: + 44 (0) 28 82 244 294  
Web-Site: [www.terexfinlay.com](http://www.terexfinlay.com) E-mail: [sales.terexfinlay@terex.com](mailto:sales.terexfinlay@terex.com)







# Hadley's raise recycling rates by investing in new plant

**New Aggregate Washing Plant supplied to waste management company Alan Hadley's Moore's Farm site in Pingewood will provide the company with the ability to raise its recycling rates and divert more of its waste from landfill.**

Since it was established in 1933 as a family business Alan Hadley has progressed and expanded dramatically while retaining its key objectives. Believing in sustainable solutions the company is passionate about conserving natural resources and operates an ethos of utilising the latest technology and integrated processes, which coupled with its highly motivated and technically competent employees has enabled them to deliver first class waste management solutions.

With the key aim of business growth, Hadley's has a firm focus on becoming best in class for delivering waste management solutions for its customers. Also high on its agenda is a constant desire toward developing higher quality recycling materials within its operating area interfaced with a consistent reduction in operating costs the company, which has led to the company recently investing in the new Aggregate Washing Facility supplied by DUO Equipment. The prime objective of the new investment will be to recycle excavation waste from construction sites into various grades of high specification recycled aggregates with the ability to produce five different aggregate products from inert excavation waste (muck) from construction sites.

## Production process

Material is fed via loading shovel to a feed hopper which is fitted with a vibrating head and variable speed drag out belt. All +125mm oversize material is rejected to ground whilst the -125mm material is fed onto an inclined conveyor, which is rated at 200tph.

From here the -125mm material is fed onto a 16 x 5 rinsing screen. Any material greater than 40mm is rejected and sent to stockpile via a conveyor; all -40mm material is fed to a Powerscreen Powerscrub, over a dewatering screen and then conveyed via an inclined conveyor to a 16 x 5 screen. This dry screen grades the material into three sizes of 10, 20, and 40 mm, which are conveyed and stocked by three further conveyors.

All waste water from the Powerscrub is then sent over a dewatering trash screen where all foreign materials are removed from the system and stocked via conveyor with the water/sludge being collected into a sump tank.

The water/sludge material, which is collected in the sump

tank under the Powerscrub, is pumped to the Fines Master 120 and any waste water from the Fines Master is then passed over a dewatering screen where any lightweight foreign materials are removed from the system and stocked via conveyor. The dewatered sand from the Fines Master is then delivered via conveyors providing two stockpiles of fine and sharp sand.

The treated waste water from the sand classification unit is pumped into the top of a deep cone thickener and sampled. Simultaneously, the batching pumps inject the flocculent solution into the delivery pipe; as a result, inside the thickener tank, the sludge will drop while the clean water weirs over the top of the thickener into a clarified water tank and is reused by the wash plant, an operator only has to add the powder to a storage bin. The underflow from the thickener is discharged into the nearby lagoon.

## The products

Five aggregate products are produced by the plant: 0/2 Building sand; 0/4 Sharp sand; 4/10 Aggregate (10mm single sized gravel); 10/20 Aggregate (20mm single sized gravel) and 20/40 Aggregate (40mm single sized gravel). By mixing the various products, 20 mm all in concrete ballast (0-20mm) is also produced. 40-100mm oversize material is also available consisting mainly of brick and concrete which makes an ideal substitute for hardcore. Hadley's technical department can also cater for special requirements, which can be satisfied by the controlled mixing of the various products. Products produced from oversize materials and demolition waste by further processing at its crushing facilities are: Type 1 crushed concrete (Unbound mixture for sub base SHW clause 803) and 6F5 crushed masonry (SHW Series 600).

Tight specifications and quality control ensure that all products are thoroughly tested to ensure they all conform with the relevant European standards: BS EN 12620 (aggregates for concrete); BS EN 13139 (aggregates for mortar); BS EN 13242 (aggregates for unbound use) and BS EN 13285 (Unbound mixtures).

Products are also tested against the requirements set out in the Highways Agency Specification for Highway Works (SHW) for use as pipe bedding, drainage materials, sub-bases and earthworks materials. With strict quality control systems and regular (weekly) testing in their laboratory all Hadley recycled aggregates comply with the requirements of the WRAP quality protocol.



[www.hub-4.com/directory/680](http://www.hub-4.com/directory/680)

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



**CALL +44 (0)1530 817000**

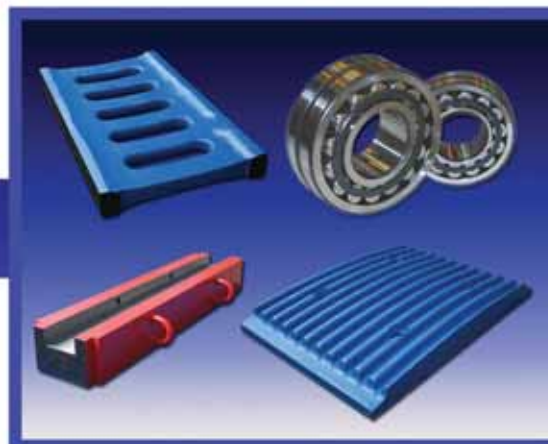
**WWW.CRUSHERS.CO.UK**

**EUROPE'S LARGEST STOCKIST**

## JAW CRUSHER SPARES



## CONE CRUSHER SPARES



## IMPACTOR SPARES



## CRUSHER REPAIRS



**IMMEDIATE DESPATCH WORLDWIDE**





**Hanlon's Sennebogen  
821M**



## Waste Industry feels the grab of material handlers



**The GRC's Sennebogen 825M**

Working on high profile civil demolition waste materials requires a reliable efficient material handler that keeps on providing the muscle day in, day out. GRC Recycling had just that need and has now purchased a 825M D-Series Greenline Material Handler to join its team with support from EH Hassell. Based in Dundee GRC Recycling operates an efficient and busy business processing construction and demolition waste and scrap metals the company has found the machine an extremely versatile performer. Weighing in at 28 tonnes the Sennebogen 825M D-Series features a heavy-duty boom with extra large bearings for permanent high performance operation. The redesigned construction utilises the latest HD axle technology. The machine is mounted on a large cross section frame from boom to counterweight and the upper carriage design offers comfortable and safe access. A completely redesigned upper structure provides strong, dynamic swing drive for fast working cycles. With improved stability on the elevating cab the operator is fully catered for in an ergonomic air suspended comfort seat, which is adjustable with lumbar support, seat heating and adjustable arm rests. GRC Recycling has a new dependable member on the team, comments Greg Cosgrove: "The 825M has been a very valuable addition to our company recycling equipment, with strong reliability, fast operation and back-up from Hassells if needed; so much so that we are now considering the purchase of another 825M."

### John Hanlon & Company has also added to its fleet of Greenline Material Handlers.

With nearly three decades of experience in the wheeled loader industry John Hanlon has grown to be one of the most specialised companies in the self-drive machinery rental industry operating nationally from its Bedfordshire headquarters. The company's large fleet of self-drive loading shovels and equipment is available for short-term or long-term hire and has the ability to service all applications in waste, aggregates and industrial re-handling industries. The fleet consists of many different types of manufacturer's equipment, all operated on a regular replacement program with around 150 machines. The main fleet machines are the 15 to 23 tonne class loading shovels, which prove very popular on many re-handling applications. Recently it has added to its fleet with the addition of a Sennebogen 821M Greenline (waste specific) material handler - the ninth Sennebogen machine the company has invested in. Exhibited at the RWM show at the NEC in September 2007 the 22 tonne 821M is a C series waste specification machine with a load sensing hydraulic system. Power comes from a Deutz BF4M 1013C water cooled diesel engine with an output of up to 135 kw. The machine also features a F2000 operator's cab that is resiliently mounted with exceptional sound suppression, large capacity compartment with all around visibility. Matthew Hanlon, director at Hanlon, commented: "The Sennebogen machines are well suited to loading duties and have proved to be reliable and well received."



[www.hub-4.com/directory/1788](http://www.hub-4.com/directory/1788)

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

## Soil and rubble gets a recycling boost

Raymond Brown Minerals & Recycling is contributing to Hampshire's renowned recycling initiative after clinching a new contract with Hopkins Recycling – one of Hampshire County Council's contractors. The Southampton-based firm has secured a three year contract to supply new containers for separating and storing soil and rubble brought to 21 Household Waste Recycling Centres [HWRCs] across the county – a deal estimated to be worth up to £1 million. This contract will enable the county's soil and rubble recycling rates to hit an all time high increasing from the current 83% of material recycled to closer to 100%. Raymond Brown Minerals & Recycling – part of the Raymond Brown Group – will supply a total of 50 containers to these well-used sites, which provide residents with a local facility where they can recycle and dispose of their bulky household and garden waste. The HWRC network has an important recycling function with an average 60% of waste brought into site being recycled or reused, which includes soil and rubble as well as furniture, garden waste, wood, paint, glass, metal, plastic and electrical goods. Mark Issac, plant director for Raymond Brown, says: "We are delighted to have secured this contract. The HWRCs form an essential part of Hampshire's waste and recycling infrastructure and ultimately reduce the amount of waste sent to landfill. "We are always looking for opportunities to maximise the potential to recycle soil and rubble to produce reusable aggregate. Our cutting-edge aggregate recycling plant in Swanwick, which is one of the first of its kind in the UK, has already diverted some 25,000 tonnes of aggregates from landfill." The plant at Rookery Farm, which was commissioned by Raymond Brown in May 2007, was built to significantly reduce the overall pressure on landfill as well as to meet the increasing industry demand for secondary aggregates.



Hampshire County Council's executive member for environment, councillor Mel Kendal, adds: "The HWRCs are an important frontline public service and are visited by more than four million users every year. "The County Council is continually striving to make these sites as customer-friendly possible and this contract will help us do that by providing much-needed support to provide an improved service while ensuring the maximum amount of soil and rubble is recycled or reused."



[www.hub-4.com/directory/6828](http://www.hub-4.com/directory/6828)



# BETWEEN A ROCK AND A HARD PLACE?

No-one ever said that rock crushing was meant to be easy.

Here at Lokotrack Central, we know you need equipment that is productive and durable, backed by service that is every bit as reliable.

Not only do we provide the best-known and most reliable crushing and screening equipment in the business, but we back it with a parts and aftersales service that is second to none.

No matter where you are in England or Wales, you're never more than a phone call from a trained, experienced Lokotrack Central service engineer...and a timely solution to your repair and maintenance needs.

**Central Crusher and Screening Systems Ltd.**

Pipe Yard Lane Works, Worthington Lane, Newbold, Coleorton, Leicestershire LE67 8PJ

Tel: +44 (0)1530 225 820 Fax: +44 (0)1530 224 011

Email: [sales@centralcrushers.co.uk](mailto:sales@centralcrushers.co.uk) [www.centralcrushersandscreens.com](http://www.centralcrushersandscreens.com)



**Lokotrack  
central**



Authorised metso dealer





# Soil stability without landfill

**A new soil stability system used by Eco Foundations allows soft ground to be stabilised for either transporting loads or building light structures without the need to excavate, remove and replace the soil.**

With government calling for a 50% reduction in construction excavation waste being sent to landfill by 2012, improvement of existing ground is now high on the sustainable construction agenda, helping to reduce the industry's carbon footprint when it comes to developing sites.

By providing a solution that removes the need to excavate and replace soil using specialist equipment and a process called soil stabilisation, Eco Foundations has placed itself at the heart of the sustainable construction sector. The company, which was established to find soil mixing opportunities in the market, utilises both wet and dry systems of soil engineering for ground improvement. For wet mixing Eco's Triple auger system fitted to a telescopic leader rig creates a panel of three 550 mm soil mixed piles in one single insertion of the paddles. This system is capable of installing bearing piles and cut off walls and, with the insertion of steel into the freshly mixed soils, retaining walls can also be constructed.

Dry soil mixing systems introduce binder into soft soils to improve stability. The same triple auger system may be

extremely soft soils such as peat and alluvium to turn previously unusable swamp into solid ground, allowing access to be gained where it was previously not possible to walk and to treat contaminated ground. The type of binder to be used is totally flexible, depending on ground conditions.

In addition to the environmental advantage, mass stabilisation of soft soils by adding binders to reduce settlements and/or improve the stability of the land can be both a quick and cost effective solution compared to the traditional method of piling or mass change.

## Keen advocate

Robert McGall, Eco Foundations' managing director and keen advocate of the technology explains: "By making use of the existing ground and improving it to achieve a specified mean shear strength, there is no need to excavate, cart away and dispose of the existing material off site and then bring in costly and bulky materials. It's not just about making reasonable ground better but aiming to turn soft soils into acceptable foundation strata."

Soil Stabilisation technology is widely used in Japan while Germany has been using it for last decade and Scandinavia over the last 25 years. The technology has also found favour in the US and Australia. Now Robert expects it to take off in the UK, allowing sites to use their diggers and dumpers elsewhere, particularly with growing legislative pressure. He says: "The government and environment agency are having a big push to reduce the amount of construction and excavation material movement and dumping of waste material."

Applications are numerous, as Robert explains: "We are opening up to the civil engineering community, looking at the area of remediation works and also looking towards the building developers. The technology can also be used for retaining structures, landslip and railway embankment reinstatement as well as marine environment where it can stop shoreline creep."

"It's not a replacement for piling, which is used for foundations to accommodate heavy loading structures, instead it is appropriate for low level loading allowing access to heavy piling equipment, for example - and for low-rise structures."

"With poor ground if you put loading on it you get a lot of settlement and movement of the ground. With soil mixing you give the ground new properties, enabling it to take much heavier loading. Whether it's best to use wet or dry mix to get proper stabilisation, to get the proper effects of the binder depends on the ground itself. We facilitate both methods now that we have the ALLU system to provide mass mixing underneath the ground. For example, the ALLU system allows us to produce a mass mix slab enabling us to work on poor ground and bring piling machinery onto the ground."

**Eco Foundations' ALLU soil stabilisation system**



used to install cement, lime or blast furnace slag to mix with the existing soils for ground improvement. Improving the strength and durability of soil by mixing an appropriate amount of binder agent with the soil, allows these solutions to be used for bearing piles and retaining walls, flood defence walls, cut off walls, retaining walls, king post retaining walls, underground retention tanks and ground and mass soil stabilisation.

Already offering a wet mix system, to extend its soil engineering capabilities to offer dry mixing for mass stabilisation of soft soils and therefore open up new opportunities Eco recently acquired the PM & PF Stabilisation system from ALLU following a trip to Finland and then bringing the machine to the SED exhibition in May. This excavator-mounted rig mixes binder with

## The system

The ALLU PM & PF Stabilisation System essentially comprises the ALLU PF Pressure Feeder to pump binding material into the ground; the ALLU PM Power Mix, a unit mounted onto the excavator to mix the binder into the soil and ALLU DAC (Data Acquisition Control) - a computer system that measures, controls and reports the stabilisation process.

ALLU PM Power Mix is a hydraulic mixing unit mounted as an accessory onto a standard excavator by a pin mounting or quick hitch adapter plate. The mixing power is based on the horizontal locating of the drums and the structure of the mixing parts. The drums rotate simultaneously in three ways at the same time mixing the material in a controlled way. The PM can process different materials to a depth of 6 m - depending on the chosen model, the excavator's reach and the quality of the material. Binder is fed by the compressed air right inside the ground through a tube to a selected location near the drums to stabilize the soil.

The Pressure Feeder is a track-mounted, engine-powered unit that is directed by remote control so it can follow the excavator wherever it goes. It stores the binder in two 7 m<sup>3</sup> silos (a single silo system is also available). As one is being used, the other is being filled. Using an on-board compressor the PF pumps the binder through a pipe attached to the excavator that runs alongside its arm and down the Power Mix to the centre of the mixing drums and into the soil. A bag filter on the unit collects all the loose dust.

In addition to adjusting and controlling the accurate flow and pressure of the binder via a control panel located in the excavator's cab, which allows the driver to manage the entire system, ALLU DAC also saves data during the stabilisation project, which can be downloaded to a company's computer via a USB port to provide an extensive report for the entire duration of the project.

The process begins with soil samples being tested in a laboratory for strength to determine the best type of binder and quantity required, perhaps 2-3 months prior to the ALLU system arriving on site.

Once the binder required is established and the plant is on site the ALLU DAC controls the mix amount and a record is kept of what goes into the ground, which can be passed to the client for quality control, allowing the client to know what has gone into the ground.

"We felt that ALLU's system was the best product on the market at the moment. It has good computer control of the injection process and provides good records of what's been carried out and where it's been carried out," says Robert. "We will be able to provide a service that will enable our clients to save money." He concludes: "It's a system that we think will become more widely used in this country and we want to be one of the initial companies to get involved so are doing a lot of presentations to consultants, geotechnical people and developers and we are getting very positive interest."



[www.hub-4.com/directory/6105](http://www.hub-4.com/directory/6105)



*Binder pumped from the ALLU PF travels through a hose along the excavator and down the ALLU PM to be mixed into the ground*



*Eco Foundation's ALLU PF has two ALLU PF with two silos*



*The ALLU PF's compressor*



# WM Briers invests in Doppstadt shredder



**WM Briers & Son (Tamworth) has taken delivery of its first Doppstadt shredder from appointed distributor, Blue Machinery (Central).** Developing and expanding the company into broader aspects of waste processing, recycling and biomass fuel production, whilst remaining in their core business of secondary metals, Briers has installed its new Doppstadt at its Segregation of Recyclables Tamworth (SORT) premises in Amington, where the shredder is processing post consumer packaging and pallets to produce biomass for combined power and heat generation (CPH) and clean woodpulp for sale to chipboard manufacturers.

WM Briers & Son is a family-owned, independent waste processing specialist, originally formed in 1939 to recycle scrap ferrous and non-ferrous metals, expanding into broader aspects of recycling and waste management some 30 years ago. Now in the hands of the third generation (brother and sister Edwin and Jennetta), the company owns and operates four recycling stations in the Tamworth area of the West Midlands - including an award-winning aluminium can buy-back centre - and handles some 20,000 tonnes a year of non-hazardous dry waste materials, all of which is sorted and processed under cover in customised buildings to minimise air and noise pollution. Operating a fleet of skip lorries, roll-on-offs and flatbed vehicles, Briers' expertise in recycling encompasses commercial and domestic waste, C&D waste, hazardous waste (for which the company is fully licensed and accredited) secondary metals and biomass production. Operating Lefort shear-balers, baling presses, Liebherr materials handlers and forklift trucks at its four locations, the company's new Doppstadt AK 230 Shredder is the first machine of its type to be bought by the group. The company's purchasing decision is the result of a visit to Blue Machinery's stand at last year's RWM Show at the NEC, followed by assiduous research of the many shredders available on the UK market.

SORT's manager, Simon Rooke, commented: "Our reworking, recycling and CPH activities allows us to make significant inroads in reducing waste-to-landfill volumes while, at the same time, producing quality recycled materials for sale, including woodpulp, plastics, metals, board and paper. In June this year, we will have a biomass CPH plant up and running to be fully power self-sufficient here at Amington. Any surplus energy will be sold back to the national grid. This means that we can effectively offset our carbon footprint by generating our own electricity and the new Doppstadt shredder will play an important role in this process".

Smallest of the Doppstadt range, the AK-230 is specifically aimed at the green and wood waste processing market - for cost-effective and efficient shredding of pallets and timber waste. Briers machine is shredding through a 50 mm basket for chipboard manufacture and a 30 mm basket for their own biomass incineration plant. Capable of an output of between 12-15 tph (depending on material type), the AK-230 is compact for its performance and throughput volumes.

Doppstadt high-speed hammermill shredders have a number of operational, safety and maintenance features. These include separation of the engine from the shredder unit for easy service access and safety enhancement by minimising dust build-up; high-tech control unit which monitors fluid levels and provides a safety over-ride if fluids become too low; hydraulically folding conveyors for swift set-up time and maximum mobility on restricted sites; large maintenance access doors and centralised lubrication points; quick-change sizing gates, load sensors and reversing action for maximum throughput and operational efficiency.

 [www.hub-4.com/directory/2260](http://www.hub-4.com/directory/2260)

## Sizers and feeders to Oman

**Mogensen has recently secured a substantial order comprising two Special S1536 Sizers; two S2056 Sizers and two F2005C Spreader Feeders, for installation within a steel processing plant in the Sultanate of Oman.**

The screening duty required of each of the two S1536 machines is to remove dust and fines below 6 mm from 112 tph of hot, briquetted iron (HBI). The special S1536 Sizer is 1500 mm wide and is fitted with three screening decks. The top deck contains two rows of blockage-resistant, forged steel, tapered tines designed to take the impact of the heavy 110 x 50 x 30 mm briquettes and carry out the primary screening. High-tensile woven wire meshes are fitted in the middle and lower deck positions to complete the removal of fines from the bulk material.

The two S2056 Sizers are to be located within a secondary screening house. Each machine is 2000 mm wide and contains five decks of woven, high-tensile wire screen cloths arranged to screen up to 450 tph of iron ore lumps and pellets. Four fractions (+50 mm; -50 mm/+6 mm; -6 mm/+3 mm; -3 mm) will be produced.

To ensure that material is presented to the S2056 Sizers evenly over the full width of the screen surface to achieve maximum screening efficiency, Mogensen spreader feeders will be installed above the screens. Each one of these will convert the 600 mm wide incoming feed into a 2000 mm wide curtain of material.

Each of the units supplied is equipped with two counter-rotating Invicta BLZ-Series rotary electric vibrators and displays a linear mode of vibration. All machines are of a fully enclosed design for dust containment and are fitted with abrasion-resistant liner plates in high-wear areas.

 [www.hub-4.com/directory/583](http://www.hub-4.com/directory/583)

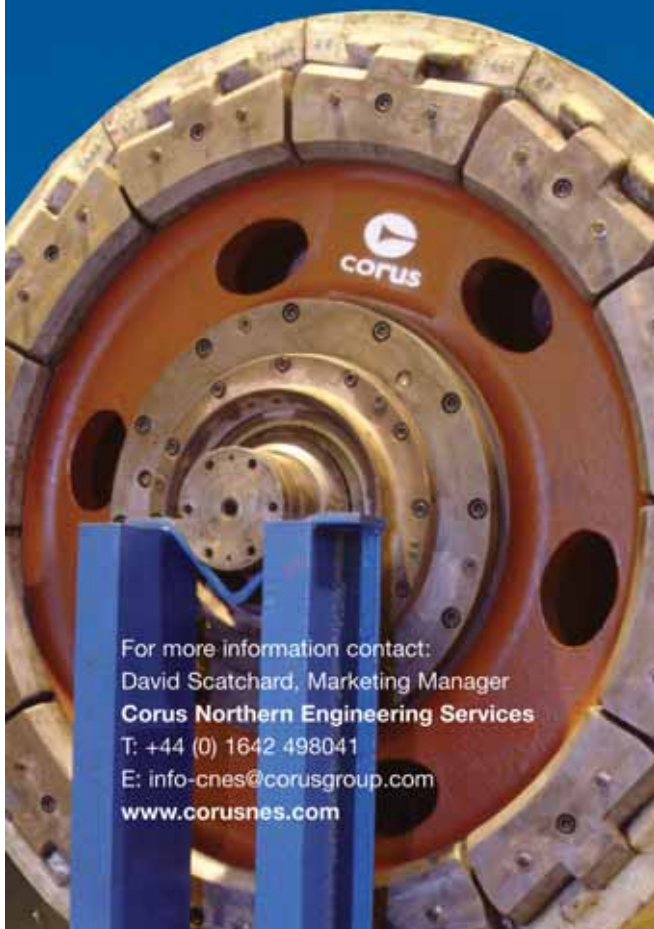




**When it comes  
to rock, we'll  
keep you out  
of a hard place**

Your hard-working minerals  
processing machinery  
deserves an equally-tough  
maintenance, spares and  
refurbishment regime  
to maximise its availability.

Ours.



For more information contact:  
David Scatchard, Marketing Manager  
**Corus Northern Engineering Services**  
T: +44 (0) 1642 498041  
E: [info-cnes@corusgroup.com](mailto:info-cnes@corusgroup.com)  
[www.corusnes.com](http://www.corusnes.com)

**NORD Intelligent DRIVESYSTEMS**...Worldwide support



## **NORD Unicase modular geared motors**

The NORD Unicase geared  
motor range gives you  
complete design flexibility  
with the combination of  
parallel, inline, bevel and  
worm solutions.

Options like brakes,  
encoders, forced ventilation,  
IEC motor input and  
integrated inverter are also  
available from UK stock.

- Powers from 0.12 to 200kW
- Ratios from 1.35:1 to 14,340:1
- Unsurpassed Quality
- Mechanical and Electronic VSD's
- Ex stock delivery, built in UK
- ATEX approved UK assembly plant



**DRIVESYSTEMS**

Nord Gear Limited

11 Barton Lane, Abingdon, Oxford OX14 3NB

Tel: +44 (0) 1235 534404

Email: [sales@nord-uk.com](mailto:sales@nord-uk.com)

Fax: +44 (0) 1235 534414

Web: [www.nord.com](http://www.nord.com)





## Nirox supply new rotary grizzly plant to the Hi-Quality Group.

A new NIROX TRG 403 tracked rotary grizzly plant has been supplied by NIROX to the Hi-Quality Group.

The Hi-Quality Group produces natural and recycled quarry products for the construction and landscaping industries, bulk materials transport, provision of plant and equipment for the quarrying, mining, civil engineering markets and waste management. Based in Sydney, Canberra and Melbourne the company has developed a customer base that includes government departments, well known building firms, civil engineering contractors and a host of valued customers in the mine and quarry sector.

The machine is totally free running on the track system making machine movement very fast and simple. The specification includes a 5.5 m long heavy-duty scalping drum with an 1.5 m internal diameter that can take a 900 mm<sup>3</sup> lump size. The drum is divided into two screening segments: a 3 m scalper/clean up drum with 230 x 105 mm elongated apertures to remove -80 mm material from the feed; and a 1.5 m sizing drum with 300 mm square openings, which will produce 80-250 mm gabion/riprap. +250 mm stone will come from the discharge end of the drum which can be used for rock armour or clean crusher feed.

Material is fed into a large capacity feed hopper with hydraulic folding Hardox sides, material is then passed over a heavy duty reciprocating tray feeder with variable speed hydraulic drive and limit switch to adjust the length of the stroke. Three on board conveyors stack fines, mid-size and over size products. These conveyors fold hydraulically for transport. The NIROX TRG 403 supplied to Hi Quality is a highly efficient high performance primary scalping and screening system weighing in at around 45 tonnes and is powered by a Caterpillar C4 engine with 96 kw. Drive is totally diesel hydraulic.

Hiquality Menangle quarry manager, Douglas Ewan, stated: "Since we have put the Nirox into operation we have reclaimed old stockpiles of materials that had zero value and by scalping out the competent rock has allowed us to reclaim some 70% of saleable product. Our company can see many uses such as Gabion Rock to foreshore defence rock and with being mobile we can now travel between any of our quarries with in a day and be setup to start producing. We are looking forward to installing a large static machine in our Wallacia operation to produce Rock Armour for the Sydney market."



[www.hub-4.com/directory/8241](http://www.hub-4.com/directory/8241)

## Hanson takes delivery of a new 180 tonne dragline

Hanson Building Products has recently taken delivery of a new Sennebogen 6180HD Electric 180 tonne Dragline. Supplied by the Sennebogen UK distributor EH Hassell of Stoke on Trent this is one of the biggest draglines sold in the UK for some years.

Hanson is the UK's leading manufacturer of bricks; as well as the supply of quality facing bricks they also offer a range of specialist bricks and cladding systems.

The new Sennebogen 6180HD machine will operate at Must Farm Quarry Whittlesey, supplying material to both Kings Dyke and Saxon Brick Factories.

Driven by a 450 kw electric motor the machine features a state-of-the-art hydraulic system, electric speed sensing and additional hydraulics. With a line pull up to 2 x 30 tonne the 6180HD offers precise control and high line speeds complemented by a robust and very service friendly design. Hassell's brief was to supply a machine that was capable of supplying the factories with enough material to operate both day and night shift production. Secondly, to meet planning restrictions and minimise the impact the machine will have on the local environment the material will need to be supplied to a clay store operating on day shift only.

Taking into account these specific operating policies E H Hassell, with Sennebogen designed the machine to operate and supply material on day shift only. The 6180HD is also driven by a 450 kw electric motor which will greatly assist in reducing noise levels.

Commenting on the new machine, Geoffrey Howson, operations manager, Bricks (South) said: "Over a period of 2 years we met with many dragline manufacturers to source a machine that would meet not only our production capacities but also satisfy strict planning guidelines. Having met with Ian Hassell and viewed a 6180 machine in operation we then agreed a specification that would require the machine to be electrically powered to reduce the impact the dragline will have on the local environment. Ian Hassell along with Sennebogen took into account our needs and offered the first 6180HD Electric Dragline to be manufactured in the Sennebogen factory. The Dragline will be one of the largest supplied in the UK for many years and we are confident the machine will satisfy our requirements."



[www.hub-4.com/directory/1788](http://www.hub-4.com/directory/1788)



## Just the job for Dust suppression

**Pulsar Process Measurement has supplied non-contacting ultrasonic equipment to initiate and switch off dust suppression systems for Lafarge Aggregates in Leicestershire, at a rail loading station and at a key conveyor transfer point. The application is important as dust is a significant potential nuisance, and both the open topped rail trucks and the long conveyors pass close to residential areas.**

It is important to optimise the usage of the dust suppression chemicals, which makes it crucial to reliably detect the stone so that it can be fully coated without either missing any of the aggregate or overspraying either between the rail cars or on the conveyor when no stone is running.

A variety of methods had been tried before the ultrasonic equipment was used, ranging from load sensors on the conveyor to optical systems on the rail cars. None had proved reliable or accurate enough.

On the rail cars, Pulsar supplied a blackbox control unit with a dB10 transducer providing a measurement range of up to 10 m. As the stone is fed into the rail truck the ultrasonic unit is set to provide a relay signal once the car has reached the 'full' level. This initiates the spray system and the stone is doused with the dust suppressant. The ultrasonic unit will not allow the stone to be sprayed until it sees a full level, and it also switches off the spray between rail trucks.

The conveyor application is slightly different. The 'span', ie, the difference between the measurement with no stone present and with stone on the conveyor is of the order of 50-100 mm, so a dB3 transducer with a 3 m range has been fitted above the conveyor and controls a spraybar that coats the stone on the conveyor. The suppressant is metered onto the stone as it passes along the conveyor, keeping the environment clean and helping to maintain good relations between the quarry and its neighbours.



[www.hub-4.com/directory/698](http://www.hub-4.com/directory/698)



## GROWING TOGETHER THROUGH EXPERIENCE

When it comes to setting the industry standard in abrasive throughput solutions, Linatex has no equal. We have been partnering with the minerals processing industry for over 80 years. Our expertise ranges from sand and aggregates processing through to hard rock mining.

But sitting back and resting on our past achievements isn't really our style.

We have a lot more to achieve and a lot more to prove; to ourselves and to our partners.

We recognise that it is only by moving with the times that Linatex can maintain its position as an industry leader.

Having spent the last few years expanding our range of process equipment, Linatex is now better placed than ever to support the growing needs of your business.

The Linatex that you have relied on for premium quality abrasion resistant rubber can also provide equipment for your minerals processing needs, utilising our unique rubber technology.

For more information on Linatex products and services, contact us now on +44 (0) 1252 743 000 or visit [www.linatex.com](http://www.linatex.com)



MOULDED



PROCESS EQUIPMENT



SERVICE



HOSE



SHEET



## TURN KEY WASTE SEPARATION SYSTEMS

Smulders designs, manufactures and supplies turn key systems and stand-alone machinery for the waste separation industry, such as:

- Feeders
- Trommel Screens
- Fines Screens
- Picking Stations
- Air-based Separations
- Magnets
- Waste Separators
- Conveyors



Visit us at RWM 2008  
16 – 18 September 2008 ; Stand no. 438

**RWM08**

International Waste Recycling  
16-18 September 2008  
NEC, Birmingham

Smulders Waste Technology is a product group of:

**Smulders Machine- en Apparatenbouw B.V.**  
P.O. Box 47, 5730 AA, Mierlo, The Netherlands  
Tel. +31 492 664 885 Fax +31 492 664 695  
Email [info@smulders-mierlo.com](mailto:info@smulders-mierlo.com)

UK representative:

**Smulders Waste Technology UK**  
5, Selwood Crescent, Frome Somerset, BA11 2HX, United Kingdom  
Tel. +44 871 200 3161 Fax +44 871 200 3161  
Email [info@wastetechnology.co.uk](mailto:info@wastetechnology.co.uk)

[www.wastetechnology.eu](http://www.wastetechnology.eu)



# Old meets new from quarry to rooftop

Quarrying



**Providing traditional, high quality roofing slate for both refurbishment projects and new builds, Welsh Slate's Penrhyn and Ffestiniog quarries in North Wales have been operational since the early 18th century. What was once a commodity is now a highly prized building material and careful handling of the reserves is essential to ensure continuity of supply for a variety of projects.**

In the redevelopment of heritage buildings, balancing the tricky partnership between preserving the character and history of the original building and bringing it up-to-date takes careful planning and an eye for detail. Get it right, and the building not only becomes fit for purpose but maintains its architectural appeal. Get it wrong, and it may well disappoint in terms of both function and form. What's more, it only takes one corner to be cut, or one construction material to be specified out of place for that delicate balance to be upset.

The £36 million renewal project at London's St Martin-in-the-Fields complex, due for completion this year, is certainly a case in point. The current church building dates back to 1726 and there has been a church on the site since 1222, so there was a clear need to protect St Martin's heritage. This is no ordinary church, however, known as the 'Church of the Ever Open Door', St Martin-in-the-Fields has been using its crypt and Victorian burial chambers to offer help to vulnerable homeless people since the first world war. As a centre of community outreach, the church provides invaluable support and advice for thousands of homeless people and the local Chinese community every year. In addition to refurbishing the church, the renewal project aims to create purpose-designed spaces to help the work of The Connection at St Martin-in-the-Fields and the community resources to continue in flexible and inspirational surroundings.

*"The old crypt and burial chambers provided a labyrinth of small rooms," explains Geoff Hunt from main contractor, Costain, "but these were impractical and pretty dilapidated. The response from Eric Parry Architects, who designed the scheme, was to demolish the old vaults and replace them with a new two-storey basement to provide new kitchens for the crypt Café, music*

*rehearsal rooms, a parish hall, a Chinese Centre (Ho Ming Wah) and a small chapel. The North Range building, which houses the vicarage, church offices and The Connection at St Martin's, has also been refurbished and extended and, here, traditional materials have been used to recreate the original roof, preserving the character of the complex."*

The traditional roof that has been installed on the North Range building extension belies the modern interior beneath and matches it perfectly with the roof on the original building, which has also been repaired as part of the roofing project. Using 'Heather Blue' slate tiles from Welsh Slate's Penrhyn Quarry and 'Blue Grey' slates from the company's Ffestiniog Quarry, the roof has been built up on a metal frame using the existing trusses and close boarding. This approach has allowed the roof to be insulated and provided a ventilation chamber behind the slates to create a diffusion zone.

Installed by roofing contractor, NDM, the roof has a mixture of Heather Blue and Blue Grey slates, an attention to detail that will please even the most sensitive of conservationists and ensured that the extension to the North Range building complied with planning consent.

The roof was specified in this way to ensure a like-for-like addition to the existing building. The way in which Welsh slate is produced for projects like St Martin-in-the-Fields reflects this dichotomy between the old and the new. The four North Wales quarries still producing Welsh slate – Penrhyn, Blaenau Ffestiniog, Pen-yr-Orsedd and Cwt-y-Bugail – are now owned by Welsh Slate and the company uses a combination of cutting-edge modern technology and traditional skills to quarry and process the slate.

The two quarries that produced the slate for the St Martin-in-the-Fields project share many of the same processes but, geologically, from different periods. Traditionally a slate mine, Ffestiniog is now being reworked as an open quarry and the product is taken from the old slate pillars that were previously left intact as roof supports. Penrhyn, by contrast, is a more traditional open cast quarry, where Welsh Slate works the material in a progressive manner on a bench-by-bench basis. "At both quarries we use low level blasting with black powder," explains Welsh Slate's production director, Mark Hodgkinson, "and because of the nature of the material managing the explosives is a very skilled process. Welsh Slate has many natural geological faults and a natural breaking point so it has to be encouraged from the quarry face – too much force and the product would be damaged." ►

Up to **30%** less consumption



Efficient diesel-electric drive concept  
Low-consumption engine with optimised dimensions  
Maximum conveying capacity thanks to Feed Control System

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

COMPACT RECYCLING FOR WINNERS

**RUBBLE MASTER®**  
COMPACT-RECYCLER

RUBBLE MASTER UK LTD

Unit 30 The Glenmore Centre, Jesops Court, Waterwells Business Park, GL2 2AP Gloucester  
mail [info@rubblemasteruk.com](mailto:info@rubblemasteruk.com), phone 01452 886 771

## DUST PROBLEMS?



We design, build and install complete foam dust suppression systems.

Manufacturers of a comprehensive range of speciality chemicals to control nuisance dust in a wide variety of industries.

**Best-Chem**

Best-Chem Ltd - Barracks Road,  
Sandy Lane Ind. Est., Stourport,  
DY13 9QB UK  
T: 01299 827232 F: 01299 827608  
Email: [info@best-chem.co.uk](mailto:info@best-chem.co.uk)  
[www.best-chem.co.uk](http://www.best-chem.co.uk)

**ACEPLANT**

Leaders in specialist  
hire & sales



### DUST SUPPRESSION UNITS

full range of tractors,  
water tankers  
and applicators.

### BUNDED FUEL BOWSERS

- extreme duty, all-steel construction, welded inside and out for double protection
- widest range on the market including UN IBCs.
- 400 - 36,000 litres capacity (100 to 8000 gallons)

The ORIGINAL and STILL the BEST



NATIONWIDE GENUINE 24 HOUR/7 DAYS A WEEK SERVICE

[www.aceplant.co.uk](http://www.aceplant.co.uk)  
Tel: 01908 562191 Fax: 01908 260461  
e: [info@aceplant.co.uk](mailto:info@aceplant.co.uk) [www.bundiebower.co.uk](http://www.bundiebower.co.uk)





Once the slate has been quarried it undergoes a selection process at the quarry itself. The material is visually sorted to select slate that is free of faults. The quarry team also uses a 'pecker', a piece of mobile plant not unlike a giant chisel, to gently 'peck' the slate and check for faults hidden beneath the surface. This not only ensures a more thorough selection process on site but also allows the team to reduce the slate to a thickness of 450 mm, preparing it for processing at the sawmill. Both quarries have their own dedicated sawmills located less than 1 km from the quarry itself. On arrival, the slate is cut into cuboid blocks using precision Van Vorden and Pedrini machinery with 1-1.2 m diameter diamond-tipped blades. The length and width of these blocks is slightly oversized by around 5% to allow for the dressing process, later in production. Once the slate has been machine-cut into blocks, it is palletised using vacuum lifts and transported across the saw mill site to the workshop where Welsh Slate's time-served team of craftsmen take on the job on hand splitting it into slates. "In the hands of our craftsmen is where Welsh Slate's heritage as a traditional material is really defined," Mark continues. "This is a highly skilled job that has

remained the same for hundreds of years and generations of Welsh slate craftsmen have been proud to handle the material that is so typical in Welsh buildings and so widely used elsewhere."

Welsh Slate employs 22 craftsmen at the larger Penrhyn Quarry and six at the Ffestiniog site. This head count includes a number of apprentice craftsmen, learning a trade that takes years to master to ensure that the company can continue to offer high quality, hand split slate in the future.

"This has always been a skill that has been passed on from generation to generation," Mark adds, "and our more experienced



craftsmen take pride in helping to train the youngsters, it's an important part of their job both for the team on site and for the company's commercial future."

Any slate that cannot be split naturally by hand – usually the lower grade material – is split using industrial saws on site. All the rivings – or undressed slates – are then palletised once again ready to be moved across site for dressing. For standard products, this process is automated using equipment that chips away at the slates' edges to create the traditional 'dressed' appearance. However, for bespoke orders like the slates used at St Martin-in-the-Fields, the slates are individually dressed by the quarries' more experienced craftsmen.

"Once installed on a building, Welsh slate is extremely durable, strong and impermeable," Mark adds, "which is why it has stood the test of time as a roofing material. During processing, however, it's an extremely delicate product to deal with and that's why we have to combine the most advanced modern equipment with the very best traditional skills."







## Lengthened vibratory feeding conveyors for rectangular hopper outlets.

Skako Comessa are probably best known for their modular vibratory feeder assembly, which includes an inlet hopper section with a square opening, which is bolted directly to a corresponding square hopper outlet. However, where the feed hopper has a rectangular discharge opening, for example 1000 mm wide x 3000 mm long, Skako Comessa will custom design a lengthened vibratory feeding conveyor to suit the exact application.

By utilising a rectangular shaped dump hopper, a significantly higher volume of material can be held, than in a similar height square unit. This is particularly relevant for below ground level lorry and rail wagon receiving hoppers, and 'low height' feed loading stations, where it is required to feed over the side with a front end loader. Over the years, Skako Comessa have provided numerous special long vibratory feeders, and in the process developed an expertise and refined the required design parameters.

The units range from 800 – 2000mm wide, and generally from 3000 – 6000mm long. Operational capacities are usually in the range 300 – 800 TPH, although units for significantly higher throughputs are easily achievable. To maintain a competitive positioning, the feeders are of heavy duty ribbed and welded construction, with replaceable base and side liner plates, and driven by twin unbalanced motors. By the inclusion of an electrical frequency inverter, infinitely variable feed rate control can be achieved between approx. 30 – 100% of the preset maximum. Additionally, as the drives do not need to be tuned to the feeder weight, and are not affected by varying head loads, they are ideal for handling differing materials, including those with fines and inherent moisture (like sub base materials).

Due to the design of the rectangular dump hopper discharge opening, the vibratory feeder can be subjected to varying loads. However, this can be easily countered by the inclusion of a 'breaker plate' in the hopper, and special spring and support arrangements on the feeder, including captive helical springs, rubber 'bump stops' and damper cylinders. These measures successfully mitigate damaging dynamic shock loads, and ensure that the feeder reliability is maintained for many years.

Recently, Skako Comessa have replaced a number of belt feeders located under rectangular shaped hoppers with custom designed vibratory units. The replacement vibratory feeders are considerably more robust, and virtually maintenance free in comparison. Additionally, the inherent spillage problems of belt feeders are eliminated.

The attached photo shows how Skako Comessa solved an operational problem at a quarry site earlier this year, by utilising an 1100mm wide x 4300mm long vibratory feeding conveyor. Handling minus 250mm primary crush granite, and fed by a belt conveyor, the original hopper had a restricted opening at the bottom to suit the existing feeder preceding an impactor, resulting in considerable dead zones, and a very limited live area. By utilising this longer feeder, the discharge opening of the hopper was extended back into the previous dead zone, creating a rectangular outlet, and in the process, significantly increasing the live area. At the same time, the feed rate to the impactor was uprated, therefore increasing operational productivity.



[www.hub-4.com/directory/778](http://www.hub-4.com/directory/778)

## New screening media from Tema Isenmann



Tema Isenmann Ltd have recently launched a new type of screening media into the UK market, designated Iseflex™. Although relatively new in the UK, the product has undergone extensive trials in Europe and beyond and has proven to be a great success.

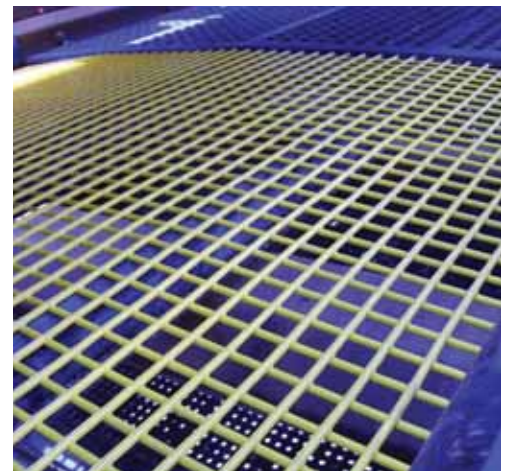
A tensioned polyurethane coated wire system, it is designed to offer users of woven wire all the benefits associated with polyurethane screening media; i.e. extended wear, noise reduction, ease of use, whilst maintaining the open area of wire. Similarly users of tensioned rubber or polyurethane are afforded additional capacity due to the greater open area.

In a recent application in East Anglia, one customer would typically achieve 2 weeks wear from using woven wire which has now increased to 14 weeks with the use of Iseflex™.

The same customer had also trialed tensioned polyurethane and rubber, but the loss in open area meant an unwelcome reduction in the production rate.

Iseflex™ includes other benefits as it is a more 'user friendly' and safer to handle than woven wire due to its flexibility and weight compared to a comparable similar size wire cloth.

There is also less downtime making it more cost effective than woven wire (in the recent application the customer noted it was 22% cheaper than using woven wire).



[www.hub-4.com/directory/816](http://www.hub-4.com/directory/816)



One technology, two instruments, all bulk solids



## Newcomer in the radar team: VEGAPULS 67

Non-contact, superior performance at an attractive price. The advanced radar technology in VEGAPULS 67 for solids level measurement is superior to ultrasound measurement in many areas: dust, air-movement, filling, process noise and temperature. VEGAPULS 67: more universal and reliable than ultra-sonics – without costing more!

	VEGAPULS 67	VEGAPULS 68
<b>Pressure</b>	up to 2 bar	up to 40 bar
<b>Measuring range</b>	up to 15 m	up to 70 m
<b>Temperature</b>	-40 ... +80 °C	-40 ... +200 °C
<b>Application</b>	universal (replacement for ultrasonics)	extreme conditions (dust, noise, heat)

VEGA Controls Ltd  
Tel 01444 870055

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

# VEGA

packed with **know how**

**Form Fill Seal**  
is good for my business

ask for your free copy

- Big Bag Filling
- Valve Sack Packing
- Bagging Lines for Pre-made Bags
- Form-Fill-Seal
- Pelletising
- Turn-key Systems
- Pallet Wrapping & Hooding



**Velocity 24/7**  
Form Fill Seal Technology.  
High speed, fully automatic, low cost baggers for sand & aggregates.

**COST CUTTER**  
lowest cost per bag packed

**webster griffin**  
packed with **know how**

Tel. +44 (0) 1892 664250  
Fax. +44 (0) 1892 664340  
E-mail: [info@webstergriffin.com](mailto:info@webstergriffin.com)  
[www.webstergriffin.com](http://www.webstergriffin.com)





## Trucks assist in Scottish Quarry restoration

**Dunbar Works, the only cement works in Scotland, has recently purchased two Terex TR100 rigid trucks to assist in the restoration of quarry areas where limestone has been removed. Lafarge Cement, who owns the works, is demonstrating a commitment to continually improving its business through such sustainable development.**

To reduce environmental impact, the Dunbar quarry team strips out what is needed and uses the overburden - removed to reveal the limestone reserves - to restore the land behind, effectively digging and reinstating at the same time. This is carried out using a 'bridge transporter', one of only two in the world. This method of working means that the quarry is never more than 1400 m long and 300 m wide.

The Terex trucks have been employed to move over 10,000 tonnes of limestone and overburden per day, and have currently worked one and a half thousand hours. Limestone is loaded into the truck by hydraulic shovels and then transported to a crushing system, which reduces the diameter to around 100 mm. The limestone beds are worked using opencast, strip mining techniques, which assist in rapid land restoration. Alistair Hill, plant manager for the Dunbar quarry, says: "We chose the TR100 model because the layout of the truck is user-friendly. The truck as a whole is reliable, simple and easy-to-use, compared to many of the other trucks we trialed, some of which had over 18 moving parts in the front axle alone. Simpler operating mechanisms and fewer parts mean our maintenance costs are lower.

"We've bought Terex before and know that availability of parts is good. It also helps to have their Motherwell factory practically on our doorstep. In fact, it was visiting the factory and seeing the machines being created from sheet metal into a 100 tonne truck that sealed the deal for us as we now have a better idea of the stringent quality procedures Terex has in place."

Lafarge has made substantial investments in Dunbar Works in the last 25 years. A £40 million programme in the mid-1980s was followed by a £34 million upgrade in the mid-to-late-1990s to increase production capacity and efficiency, and improve safety and environmental performance. Dunbar operates an environmental management system registered under the European Union's exacting Eco-Management and Audit Scheme to track and ensure continuous improvement in environmental performance.

On the role of Dunbar Works in the local community, recently appointed quarry manager, Dave Hurcombe says: "Our environmental performance has improved steadily, year on year. We are committed to sustainable development and making sure our neighbours remain a key priority."

## Hogan Aggregates' Gwyndy Quarry repeats dump truck order

**Hogan Aggregates' Gwyndy granite quarry on Anglesey in North Wales has selected the 32 t capacity Terex TR35 rigid-frame dump-truck to replace its previous Terex TR35 as the primary haul unit from face to crusher. The new TR35 will be instrumental in the planned upgrade of the Gwyndy quarry.**



**Hogan Aggregates has replaced its 32t-capacity TR35 rigid truck with another new TR35 for face-hauling duties,**

"But this was not just a straight, like-for-like exchange," explains Paul Haddock of Terex Construction UK. "The customer wanted the most suitable, economic and reliable unit available, and had evaluated various options, including competitive rigid and articulated haulers. The Terex rigid, however, again proved to be the most suitable for the demands of the job".

"This was an interesting, thorough and informative evaluation in a well-organised quarry," says Haddock. "It proves the point that the modern, well-proven rigid-frame truck is hard to beat for consistent, reliable performance in a hard-rock quarry, where dependable day-in, day-out production is required."

The quarry already operates two Terex TA25 articulated haulers, for the stockpiling and re-handling duties of the busy aggregates side of the business. This equipment can, of course, provide additional short-term extra haulage capacity at the quarry face if needed.



**The new unit will work alongside two Terex TA25 articulated units on stockpiling and rehandling.**

"We have a rolling replacement programme for mobile equipment," says quarry manager, Jamie Hogan. "The previous TR35 has performed impeccably for us, so we have total confidence in the product and the support provided by Terex. The fact that the truck is still on the original set of tyres speaks volumes about its suitability for this tough application".

"We find the TR35 to be the most cost-effective method of haulage in these conditions, and as well as being economical to run; the Terex trucks are also exceedingly quiet in operation, which are all important considerations," he adds.



[www.hub-4.com/directory/817](http://www.hub-4.com/directory/817)





**Red Rhino**  
Crushers Limited™



**Crush Your Skip Costs Into Profit & £££'s!**



**"CONTACT US TODAY FOR A FREE FINANCE  
QUOTATION TO COMPARE WITH YOUR RISING  
WASTE COSTS."**



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

T: 01296 310 600 E: [info@redrhinocrushers.com](mailto:info@redrhinocrushers.com)

Unit 7, Brunel Gate, Brunel Road, Aylesbury, Buckinghamshire, HP19 8AR



## MODULAR CONVEYOR SOLUTIONS



**EASIKIT**

Ex-stock delivery

**Tel: 01792 310080**

Email: [sales@beaufortconveyors.com](mailto:sales@beaufortconveyors.com)

Beaufort House, Clarke Way, Winch Wen, Swansea SA1 7ER  
Fax: 01792 310081



## Call the experts® for an efficient digging machine

They don't come any tougher than the Komatsu PC600-8 and PC800-8. These machines combine outstanding performance with Komatsu strength and reliability.

The highly acclaimed Spacecab ensures the operator stays alert during a long day's work. Exceptionally comfortable, it offers excellent visibility and puts vital machine information at his fingertips. The Komatsu Ecot3 engine provides plenty of power, with first-class fuel economy - plus it is easy to clean and maintain. Put all this together with our Komtrax™ satellite monitoring system and you can be sure of a machine that always performs as it should, where it should.

Komatsu, keeping one step ahead.

**KOMATSU**



Marubeni

**KOMATSU**

Marubeni-Komatsu Ltd, Padgets Lane, Redditch, Worcestershire B98 0RT  
Tel: 01527 512512 · Fax: 01527 502310 · Email: [info@mkl.co.uk](mailto:info@mkl.co.uk) · [www.komatsu.co.uk](http://www.komatsu.co.uk)



# Are you driving home the safety message?



**Nigel Gill discusses the implications of Corporate Manslaughter regulations for drivers within the quarry and beyond.**

It is now over a year since the Corporate Manslaughter and Corporate Homicide Act 2007 came in to force, and yet many companies still don't understand the risks or address the issues raised by this important piece of legislation. For quarrying companies, where there are all manner of health and safety issues in the workplace, the implications are immense. Any accident that causes a fatality could see the firm's management team in court on manslaughter charges. While it has yet to be seen whether this would lead to a prison term, it's certainly clear that it could tie a company up in legal proceedings for months or even years, affecting it both operationally and in terms of reputation.

Of course from a moral perspective, any company should prioritise the safety of its employees at all times, ensuring that they have safe tools and a safe environment in which to do their job. The legislation ought to

bring this moral obligation into sharp focus and, for those companies that take the trouble to understand it thoroughly; the law spells out just how wide-ranging the employer's obligation really is.

One of the key areas that employers need to consider is the issue of health and safety for employees who drive a vehicle as part of their job (ie, for any purpose other than commuting). The legislation obliges the employer to take every possible precaution to safeguard their employees while they are on company business, whether the vehicle they are driving is owned or leased by the company or not. An incident could be something as simple as an administration clerk dropping off the post on the way home. As a result, the employer could find itself just as liable for a fatal accident that takes place whilst an employee is driving his own vehicle on company business as they were if the employee was driving a

company-owned vehicle on site. It is imperative that the employer undertakes a risk assessment on every driver and vehicle that carries out any task on the company's behalf as part of its duty of care to staff and a watertight response to the legislation.

## Assessing the Risks

Every employer has to do a risk assessment by law and advice is available from the Health & Safety Executive (HSE) to help companies carry out their risk assessment effectively. It is essential to look at the full range of transport-related activities over a reasonable period of time – perhaps a typical working week – including company vehicles and vehicles used on company business, and the risk posed to staff by any visiting vehicles. Typical activities a quarry operator might need to consider include the arrival and departure of vehicles to site, travel within the workplace, loading,



unloading and securing loads, sheeting, coupling and vehicle maintenance work.

Once the quarry operator has identified the activities to be included in the risk assessment, they must then identify all the potential risks that could be associated with them. This should start with the vehicles themselves and consider whether they are fit for purpose, well maintained and safe. It should also include the routes and roadways used by vehicles answering questions such as: is there a clear traffic management system in place? Are they properly maintained? Are there hazards or obstructions? Equally important are questions about driver behaviours and, indeed, driving skills. Is there a risk of drivers becoming over-tired? Are procedural corners being cut to maintain productivity levels? Have they been adequately trained for the type of vehicle they are using and is that training up-to-date?

There are no hard and fast rules for

and sharing information with both employees and any contractors on a day-to-day basis helps to keep safety issues front-of-mind. The accident and near miss reporting system plays a key role in this as it allows the management team to highlight the health and safety issues on site and flag up any potential breaches of procedure so that these can be tightened up to help avoid further incidents. It is important when sharing this information with colleagues to impart feedback on good health and safety behaviours as well as bad. Not only does this prevent the accident reporting system from becoming a stick with which to beat a workforce who may already be cynical about health & safety, it also allows the quarry operator to reinforce positive messages about good health & safety practice. As a result, the operator is delivering its duty of care by building an understanding of good practice and company policy amongst its employees.

business to sit an online competency test that requires them to answer questions on driver behaviour and pass hazard perception tests. If they pass this with a low risk score, they are not required to sit it again for two years. With a medium score they have to undergo a one-hour online education session to help improve their skills and if their results indicate they might be at high risk they are sent for a half day one-to-one training session to improve their skills.

Of course, it's not all about the drivers' skills; ensuring the vehicle is roadworthy is also essential. Many companies stipulate the maximum age for a vehicle at time of purchase but this needs to be policed and to include a maximum age for changing the vehicle too. Maintenance is also key; the company needs to verify that MOTs and services being in line with manufacturers recommendations have been carried out and it can even be a good idea to strike a preferred supplier deal with a local



the risk assessment, after all every quarry is different. It is essential however, that the risk assessment is thorough and addresses what is actually happening on the ground, not simply the health and safety best practice laid down by policy and guidelines. According to Corporate Manslaughter legislation, the employer must be able to demonstrate that every reasonable precaution has been taken to avoid accidents. That means ensuring that the risk assessment is up-to-date, that it factors in the views and feedback of employees, contractors and regular visitors to site and that it includes an accurate assessment of both vehicle and driver competence.

## Operational Best Practice

Communicating health and safety best practice and building it in to the culture of an organisation is notoriously difficult but, in a quarrying environment where there are so many potential hazards, it's a business-critical requirement. Including health and safety responsibilities in job descriptions and training is a good starting point

## Hidden Culpability

Alongside the clear risks of site traffic for quarrying companies comes the more insidious risks that can be involved in the use of employee-owned cars being used for business purposes by sales teams or managers. Thanks to the tax burden, asset-ownership and administrative demands of running a company fleet, many companies now offer for a 'cash for car' alternative. What many do not appreciate, however, is that the company is just as culpable if an employee has a fatal accident whilst out on company business driving his own car as it would be if the employee were driving a company owned vehicle.

Again, it's all about risk assessment and due diligence and this starts with developing a positive driving culture within the business that helps people accept that their driving skills will be monitored and, if necessary, improved. For example, at Andrews Sykes we keep a database of all employees who drive on company business and this is reviewed annually. We also expect all employees who drive on company

garage to ensure that all repair and servicing work is verifiable.

## Communicating Safety

Ultimately, Corporate Manslaughter laws are only there to encourage good health & safety behaviours and that's something that the quarrying industry takes very seriously. Driving is often such a routine task, however, that it is sometimes overlooked as a serious risk factor and that's why communication is so important. At Andrews Sykes, all our drivers receive regular fact sheets to update their driving skills and keep safety front of mind. After all, assessing the risk from a purely operational perspective is all well and good, but unless the risk of human error is also addressed, an employer hasn't really covered all the bases.

*Nigel Gill is operations support director at equipment hire company, Andrews Sykes.*



[www.hub-4.com/  
directory/2185](http://www.hub-4.com/directory/2185)



## Problems with Quick Hitch training addressed

The government's and the Health and Safety Commission's strategy to improve health and safety at work has seen a steady improvement since its introduction in June 2000. However statistics show that still 6 million working days were lost in 2006/07 due to workplace injuries according to the HSE. These figures include 241 workers killed, 141,350 with injuries resulting in 3 days or more absent from work and 274,000 reportable injuries.

It is a fact of business life that trained operators move on, hence new ones need to be recruited and trained, also staff turnover fluctuates and seasonal peaks in business create exceptional demands for qualified operators. It is also a fact that some employers, and many employees, take shortcuts by not bothering to cover all necessary areas and not devoting the right time and skills to training. Potentially this has disastrous operational, legal and financial consequences. Due to the direct and indirect cost of workplace transport operator training, whether a company has its own in-house trainers or uses external training providers, this activity rarely receives the attention it should.

The HSE has issued a safety alert to all users of excavators fitted with a quick hitch device following four fatalities and a number of incidents on construction sites since December 2006. This alert states that HSE inspectors have been encouraged to take robust and appropriate action where quick hitches are found to be in use without the adequate precautions in place.

A recent SIM report issued by the HSE on the 'safe use of quick hitch devices on excavators' highlights the various concerns they have in this operation in particular semi automatic hitches, where the attachment can be changed using the hydraulic system of the piece of equipment, however safety pins have to be inserted manually. Such operations can be completed up to 30 times a day in order to maximise the machine's productivity, but 13% of all accidents involving excavators are attributed to the bucket detaching from a quick hitch and injuring ground workers, leading to mostly fatal and major injuries, with many more near misses not even being reported, meaning quick hitch failures are more common than first thought, and prosecution being pursued.

Companies reviewing the SIM document and the training they have provided in the past, have realised this is an area of concern that has not been covered previously, either by operators not receiving updated training or assessing, or not being trained correctly in the first place.

Mentor training provides training courses that are fully approved by the Health & Safety Executive's accrediting bodies and all Mentor instructors are examined, registered externally and constantly monitored, ensuring all customers receive the highest and most professional service. As part of its excavator training package accredited by EMP (Awarding body for the extractive industry) a module is solely devoted to quick hitches, consisting of both theoretical and practical training in the safe use of quick hitches.

The training consists of the different types of quick hitches the manual system where the operator is required to change attachment by winding a screw thread to open and close a latch, or using a bar to open a spring actuated latch, also the semi automatic system where the operator has to leave the cab to insert a retaining pin after he has hydraulically changed the attachment. Finally the fully automatic system, which is operated entirely from the cab of the machine, with an independent locking system, which functions automatically and does not rely on the hydraulic pressure to hold the latch in its closed position, is addressed. It covers the dangers of buckets detaching not only when an accident occurs but also when near misses happen, and the complacency in not realising the extended length of the attached when attached with a quick hitch.

Management responsibilities are also included, as operators need to know that risk assessments and safe systems of work are in place for them to follow when using such equipment on site. Also the quick hitch is regularly used as a lifting aid, and the course covers all LOLER regulations, plus both operator and management requirements it relates to.

One major issue is the fact that the quick hitches are very rarely manufactured by the excavator manufactures, leading to different types of quick hitches being used on the same machine. To address this problem Mentor only use instructors that are occupationally competent with many years of experience, along with a very experienced safety and logistical team at head office to ensure that not only the training is given to the appropriate standard set by the awarding body but also that any unusual circumstances can be catered for under any conditions without being detrimental to the standards.

The same service is given to all Mentor's courses from Forklift to Crane Operations Banksman to Manual Handling and Access Platforms to Excavators, being conducted by 140 instructors nationwide, both at customers premises or at their various purpose built training centres offering operator and instructor training.

## Newsletter focuses on excavator attachments




*The launch issue of Attachments Focus, a periodic newsletter from Hill Engineering.*

Hill Engineering has published the first issue of Attachments Focus, a newsletter about the company's specialisation in the excavator attachments sector. The launch issue contains information about the company's 'Safety First' Auto-Loc fully automatic excavator quick hitch and its bucket range, alongside other articles. The newsletter also highlights the proposed Health & Safety Executive (HSE) ban on the manufacture of semi-automatic quick hitches and the recommendation by some major contractors that only fully automatic hitches are used on their machines/sites. It also confirms that the Hill Auto-Loc fully automatic quick hitch is fully compliant with all existing and proposed safety standards & legislation, making it what is claimed to be the safest and best engineered quick hitch on the market today. Hill Engineering is particularly interested to hear from users of its products who may have interesting application stories or testimonials of their own, for possible use in future issues of the newsletter.








Valley Spring is a member of the Springmaster Group

**SPECIALIST PRODUCER OF MEDIUM AND LARGE  
DIAMETER COMPRESSION, EXPANSION  
AND TORSION SPRINGS.**



Pottery Lane East, Chesterfield, Derbyshire S41 9BH  
Tel: +44 (0)1246 451981 Fax: +44 (0)1246 454327  
E-mail: sales@valleyspring.com www: http://www.valleyspring.com

Over **1700** Concrete Batching Plants **successfully** installed in more than **50 countries**



**Steelfields** can give you everything you want from a Concrete Batching Plant, choice, reliability, consistent high quality output and high residual value.

**Steelfields** are specialists in Concrete Batching and Mixing Plant, Concrete Mixers including the SFP4500/3000 Counter-flow Mixer, Wet Concrete Recycling Systems, Silt Water Processing and the NEW containerised Air-Blast System

**1956**  
ESTABLISHED

**STEELFIELDS**  
SPECIALISTS IN CONCRETE BATCHING & MIXING PLANT

Steelfields Limited, Gads Hill, Gillingham, Kent ME7 2RT, U.K.  
Tel: +44 (0) 1634 280135 Fax: +44 (0) 1634 280689  
www.steelfields.com

**Built to the very highest standards and in use all over the industrialised world.**

*For Material, Processing & Recycling*

- screens • sizers • vibratory feeders • tubular conveyors
- spreaders • thermal process trays • vibratory table
- scrap separators • grizzly feeders • vibro sorts

*The faster, quieter, cleaner solution to all your handling problems – it must be a...*



**MOGENSEN**

Harlaxton Road, Grantham, Lincolnshire NG31 7SF, England  
Tel: +44 (0)1476 566301 Fax: +44 (0)1476 590145  
E-mail: sales@mogensen.co.uk Web: www.mogensen.co.uk

**Contact us for more details & a copy of our latest catalogue.**

MOGENSEN Twin Spreader feeding two C1544 screens



Protecting **the Environment ...**



- Heavy Duty Lubricants • Biodegradable Lubricants
- Clean Solutions • Waste Disposal Package

For more information contact: Rosemary Mellor 01782 203706

**Fuchs Lubricants (UK) plc Tel 08701 200400 www.fuchslubricants.com**

WE ARE THE LUBRICANTS BRAND LEADER FOR THE QUARRYING INDUSTRY. YOUR SILENT PARTNER! WORLD LEADERS IN LUBRICANT TECHNOLOGY



## Quarrying industry progresses towards zero accidents

**The QPA has released updated reportable injury figures for 2007 as the industry continues its journey towards target zero. The statistics show another year-on-year improvement from the sector and confirm that quarrying is continuing to make progress towards its 5-year hard target to halve injuries.**

At the conclusion of the QPA's last five year hard target cycle in 2004, reportable injury totals stood at 288. With 2007's figure being 152, it represents a significant and encouraging improvement. However, the industry recognises that even a single injury is unacceptable and improved figures only represent another step towards the expectation of zero injuries. Simon van der Byl, QPA's director general, said: "We are encouraged by another year of improved performance, but the industry remains focused on completely eradicating injury to our workers. A combination of strong, effective leadership and ever greater commitment to sharing best practice is being coupled with increasing QPA-inspired international influence over the provision of plant & equipment that is "inherently safe as standard." All this is helping us move ever closer to target zero. The industry and its stakeholders expect nothing less."

**Meanwhile, ahead of the last bank holiday weekend, the QPA launched its annual 'Play Safe ... Stay Safe' campaign and warned that quarries are not safe places to play.**

Lynda Thompson, the QPA's chairman commented: "Whilst quarries are safe places for work and have a vital role in our world they are not playgrounds. We rely on parents and teachers to support us in delivering that essential message.

"Our new safety survey shows that 60% of our members' quarries have experienced trespass problems in the last two years and over half expect further incidents in the coming year. We know from experience that warm weather is a particular factor in increased levels of trespass by both children and adults," she said.

"A fifth of our members say that trespass is a constant worry and many have employed CCTV, extra security guards, new fencing and have increased co-operation with Police Community Support Officers to try to tackle the problem."

The new survey of quarry managers also found that whilst the over-25s are the most frequent trespassers, teenage trespass is a bigger concern.

Lynda added, "The numbers show the extent of the problem and, whilst our members try to engage with the community by visiting schools and youth groups, the support of parents in relaying the 'Play Safe... Stay Safe' message is vital.

"It came as somewhat of a surprise that the over-25s were the most frequent trespassers. We would urge those adults to change their behaviour because children following this example could be exposed to unseen dangers."

The 'Play Safe... Stay Safe' campaign raises awareness of the often unrecognised hazards of trespassing in a typical quarry, which include deep and cold water, sand piles where children could dig tunnels liable to collapse and steep drops.

QPA is particularly concerned about the potential for accidents at disused quarries, which often become beauty spots and attract whole families. Amongst the adults who often ignore the hazards of such sites – and in doing so encourage children – are divers and climbers.

Lynda concluded: "We are keen to ensure parents and teachers fully understand the dangers young people can face if they trespass on active or disused sites. One accident is one too many."

## Foam Dust Suppression helps resolve Dust Issues at Bardon Hill



Situated in Coalville, Leicestershire is Bardon Hill Quarry one of the flagship operations of Aggregate Industries. It is a long established quarry producing over 3 million tonnes of aggregate per annum. The production plant comprises a primary crusher, secondary crushers and tertiary and quaternary crushers, additionally; there are screens at various intermediary stages as well as final screen houses. Controlling dust emissions in quarries is vitally important and this is no different at Bardon Hill. The management are acutely aware of their responsibilities not only to their employees in providing a safe environment to work in but also to their neighbours and the wider community.

In common with most quarries Bardon Hill experiences airborne

dust emissions at various stages of the process plant including:

- crushing shed • transfer points • intermediary screen • final screens • vehicle load out points.

A number of mitigation measures had been introduced over the years. These measures have varying degrees of effectiveness at their specific points of application. There is a limit as to how much moisture that can be added through spray systems as excess moisture can cause screening problems. Additionally, the extraction plant also has number of operational disadvantages including high energy, maintenance and consumables costs.

The management were determined to explore other methods of dust control at Bardon Hill. In November 2005 Best-Chem were approached to carry out a site survey to see if its unique Foam Dust Suppression System could make the difference that they were seeking.

Best-Chem as a pioneers of Foam Dust Suppression Systems here in the UK have not only developed unique application equipment but also manufacture at their site in Stourport, Worcestershire a number of proprietary foaming agents used in the system. Best-Chem has also built a mobile demonstration system which can be easily set up and give potential customers a realistic appraisal of what can be achieved.

Given the complexity of the process plant at Bardon Hill a demonstration was set up whereby two quaternary crushers were to be treated with the Best-Chem Foam System. The output from these two crushers goes to a separate dedicated screening process for small sized aggregates.

The demonstration unit was set up outside normal operating times to avoid any disruption to production. Trials were carried out under normal production operations. Within half an hour of operating the system there was a negligible amount of airborne dust.

Following this successful trial – Best-Chem was invited to install a comprehensive Foam Dust Suppression System throughout the process plant.

In March 2007 a foam system was installed at the primary crushing plant, and earlier this year a comprehensive installation was carried out at the tertiary / quaternary crushing shed.

Each of these systems is housed in a new fully fitted container and comprises:

- Foam Generating Unit – this is Best-Chem's own design and allows foam to be applied at remote locations up to 150 metres away • Bunded chemical storage tank for Dustrol 70 • Air operated chemical transfer pumps • Heating & lighting.

An air compressor was not supplied as there was sufficient spare capacity at the process plant. The installations were carried out by Best-Chem engineers with little disruption to production.

Utilising this System – foam is generated at dilution rates of over 200 parts water to 1 part foaming agent through a series of nozzles directly in to the crushers. This has the effect of wetting the aggregate and capturing the dust before it becomes airborne.

Thus in essence the Best-Chem approach is to "prevent the dust from getting airborne."

The typical application rate into a crusher processing 150 tph is in the region of 3 litres of solution per minute (at 200:1). This is approximately 0.1% moisture addition by weight and does not lead to screens blinding over – yet prevents most of the dust from getting airborne.

The system is fully automated and individual nozzles are turned on or off by signals from associated equipment. In this way foam is only applied when it is needed thus minimising wastage.



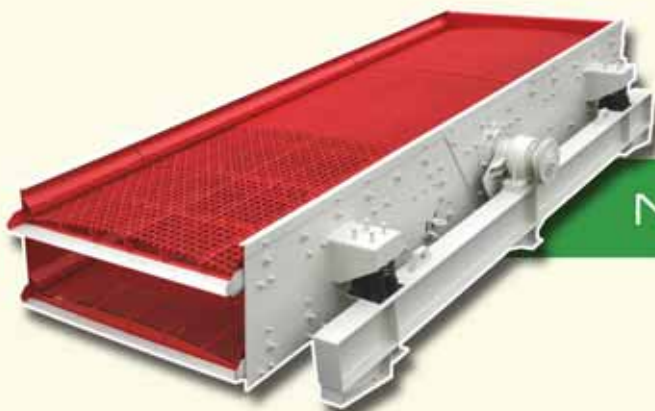
**CALL +44 (0)1530 817000**  
**WWW.GOODWINBARSBY.COM**

## RETRO-FIT DRYERS



## NEW MK5 GRANULATORS

## NEW MK5 SINGLE TOGGLE JAW CRUSHERS



## NEW VITEX SCREENS

## RETRO-FIT MIXERS



- ✓ **GENUINE SPARES**
- ✓ **SALES AND SERVICE**
- ✓ **TECHNICAL SUPPORT**



**GOODWIN BARSBY**  
**LEICESTER, ENGLAND**

# Ennstone switches to mobile crushing

**A pair of track-mounted crushers is helping leading aggregates producer Ennstone Johnston switch from static to more flexible mobile crushing solutions at its hard rock quarry in Leaton, Telford.**

Ennstone Johnson, part of the multinational Ennstone Group, is utilising a pair of Sandvik track-mounted mobile crushers to upscale production at its Leaton Quarry near Telford. The 43 tonne UH440i units, which feature Sandvik CH440 cone crushers specifically designed for hard rock applications, have proved to be an ideal match for the Olivine Dolerite that is being extracted from the 52 hectare quarry.

## Hard Rock Quarry

With operations as far afield as Poland and the US and across the UK, Ennstone is a name familiar to anyone with even a passing interest in the field of aggregates production. Operating from offices at Breedon-on-the-Hill in Leicestershire, the company has established a formidable network of quarries, asphalt and concrete plants that cover an area from the Welsh border to the East coast of Norfolk, and from South Yorkshire through to Oxfordshire.

Acquired as part of Ennstone's purchase of Johnston Roadstone, Leaton is the only quarry supplying hard rock products to the Ennstone group in England. The 52 hectare site, which was opened in the 1920s and has some seven million tonnes of reserves, currently supplies eight group company plants with Olivine Dolerite, an igneous rock formed in shallow intrusions that push between beds of sedimentary rock. Hard without being too abrasive, Olivine Dolerite is particularly popular because it can be shaped to suit a wide variety of asphalt applications.

## Increased Production

The quarry operates on five levels of 14 m each. The lowest level has now reached the water table and has to be pumped. Material is currently extracted by blasting although this has to be done carefully due to folding of the rock beds, which has resulted in some lying at 45 degrees and some lying almost vertically. As a result, blasting can take place twice a week or up to 10 days apart. In particularly awkward locations, Ennstone Johnson will only blast 1000 tonnes, but on a main face it could be as much as 32,000 tonnes. An average blast is around 20,000 tonnes.

Leaton Quarry's main crushing plant utilises a Svedala Superior crusher to reduce the blast material from 110 mm down to 48 mm, this feed going forward to two H200 hydrocone machines for further reduction. Oversize product is returned to an additional H200 hydrocone, to maximise the fines products. These have been in place since 1984 and 1988 respectively and have maintained an annual production of 350,000 tonnes. However, when Johnston Roadstone was acquired in 2004, an increased production target of 750,000 tonnes/year was set to meet the group's growing materials demands. "Having looked at the alternatives, we decided that mobile crushers were more suitable than a replacement static plant," says Western region production manager Kieren McCabe. "A static plant would have cost several million pounds but the mobiles are just a fraction of that cost. In addition, they afford us considerable operational flexibility, allowing us to

follow the blasting pattern and reduce haulage costs."

## History of Reliability

McCabe reports that the selection process was made easier by the company's long history of running the Svedala static plants. "The Svedala statics were extremely reliable so the thought of dealing with the company behind the Svedala brand gave us some additional confidence," he says. "Sandvik also claimed that we could produce four different products with a single mobile machine which would allow us to remove another crusher from the production process. Once they proved that, the choice was easy."

The machines chosen were two Sandvik UH440i track-mounted mobile cone crushers: one loaded with 95 mm material for onward feeding to a pair of screens; the other acting as a secondary crusher to a primary jaw to produce a range of 6, 10, 14, 20 and 32 mm products.

Weighing in at 43 tonnes, the UH440i crushers are built around a proven and highly durable Sandvik CH440 cone crusher that delivers the optimum combination of throughput and shape. The cone crusher is controlled by a patented Automatic Setting Regulation control that gives a smooth flow of material and high productivity levels. The entire crushing process is continuously and automatically monitored by the intelligent control system that provides the operator with valuable operational information. "From the moment we saw the UH440i machines, we really liked the build quality. A lot of steel goes into the building of the crusher and they're immensely strong. In my opinion, they have the best build quality of any crusher I have seen to date," McCabe says. "The best feature is unquestionably the ease of operation. They have a huge programme choice and the ability to change product size with no loss of production whilst the crusher is in operation. The control system gives the operator a lot of production modes that allow us to maintain an excellent product shape, even at maximum productivity."

## Multiple Products

Although he is clearly enthusiastic about the ease of operation of the two new Sandvik crushers, it is their ability to produce a range of material grades that has really found favour. "The Sandvik machines are producing four different products to a very high quality standard at a rate of approximately 270 tph. That compares extremely favourably with the static primary jaw crusher which was running at around 170 tph," McCabe continues. "Using one machine to achieve all this saves a lot of time and expenditure. During periods of peak demand, we have worked from 5 am until 11 pm. With a normal machine, you would expect that to generate a considerable amount of wear. But the Swedish metals are very good and the Sandvik crushers are showed no significant signs of premature wear."



Despite this, McCabe reports that Ennstone Johnson has invested in a preventive maintenance contract with Sandvik to ensure that the new crushers are maintained properly and that unplanned downtime is minimised. "I really can't fault the service we receive from Sandvik. They are always co-operative and helpful. They respond quickly and if we need a part they go out of their way to find it," Kieren McCabe concludes. "When we did experience an initial engine fault, a replacement unit was taken from the production line and delivered straight to the quarry. And that was during two bank holidays: one in England; and one in Sweden."



[www.hub-4.com/  
directory/757](http://www.hub-4.com/directory/757)



**UH440i**



**Proven  
Performance**

***McCloskey***  
INTERNATIONAL



### ***S190 Tripledeck***

McCloskey International offer an extensive range of world class vibrating and trommel screeners, with greater output and reliability that eliminates downtime, even in the most difficult conditions.



[www.mccloskeyinternational.com](http://www.mccloskeyinternational.com)  
[salesuk@mccloskeyinternational.com](mailto:salesuk@mccloskeyinternational.com)  
Tel: 0044 28 87740926

***McCloskey***  
INTERNATIONAL

**CRUSHING • SCREENING • RECYCLING**



# Mobile versus static: an easy choice?



**While any plant being mobile would at first glance appear to be a preferred option, it does depend ultimately on the circumstances of use. We are constantly being approached with our views on whether mobile is better than static but it all boils down to the following:**

- do I really need the plant to be mobile?
- what am I trying to achieve from the plant?
- can the plant be demountable and not fully mobile?
- is the site constrained by space?

At John Craig we manufacture a variety of picking stations, trommels & conveyors and they are designed static, hooklift/crane demountable, or fully mobile.

The best example that we can give any client is that, for the same price, they can have either a fully mobile four-man picking station, or a six-man static picking station. The choice they have, although more detailed than that, is does it really need to be mobile or would they prefer a larger volume capacity with the six men facility.

Therein lies the main difference; with a fixed budget, mobile is obviously the preferred option but not always at the expense of the reduced capacity.

With any client looking at these types of plant, the manufacturer needs to understand the client's recycling model, incoming product and what they are trying to achieve before recommending mobile or static.

One recent example involved a recycling contractor with a large volume to recycle as quickly as possible. In the first instance a static system would have been the preferred option. However, on the site visit it became apparent that the large recycling area was overflowing with the product to be recycled and if a static system were to be installed a bottleneck would have been created, and no loader would have been able to cope with the loading. A mobile system was therefore recommended so that the mobile picking station could clear the product one area at a time, before moving onto the next.

The other problem can be with the product to be recycled. JCC mobile picking stations, although manufactured with the same heavy-duty materials and being insulated and clad in the same way, have a one-piece conveyor belt to maintain the strength of the chassis. Although both systems now include a magnet frame for non-ferrous product, another reason to consider fully the mobile versus static option is if the client wishes to separate paper/cardboard as



**Frank Hill considers the issues behind procuring mobile.**



in order to do this requires an air density blower, and therefore a two piece conveyor belt.

We have had other examples where our mobile picking stations and trommels have been specifically requested by the client to be mobile, but they have not moved since installation.

The JCC 2008 mobile picking station tries to include as many features of a static system as we can design. These include: hydraulic access stairs instead of walkway panels to avoid slippage, magnet frames, insulated cladding and roof, double glazed windows and doors, and 3 m clearance height for 40 yard skips.

## A&M Smith Skip Hire choose a mobile picking station

A&M Smith Skip Hire of Aberdeen has recently purchased a JCC mobile picking station to compliment the 24 man twin line picking station and fines screening equipment also supplied by JCC.

The mobile picking station was exhibited at Scotplant 2008, which was the first time JCC has exhibited any of our recycling equipment. JCC's 2008 model mobile picking station comes with insulated cladding, double glazed windows and doors as well as an overband magnet frame as standard. It also includes the magnet frame bay at the discharge end of the picking conveyor to enable ferrous separation to be automated on the mobile systems.

*Frank hill is business development manager at John Craig Contracting*



[www.hub-4.com/directory/6083](http://www.hub-4.com/directory/6083)





## RAYMOND BROWN MINERALS & RECYCLING LTD



### WASHING

Aggregates  
Concrete Sand  
Crusher Dust  
Recycled  
Materials

### RECYCLING

Construction &  
Demolition  
Top Soil  
Compost

### CRUSHING

Brick  
Concrete  
Aggregates  
Glass

### DRY SCREENING

Aggregates  
Crushed rock  
Sand & Gravel  
Recycled  
Materials  
Soils



### For more information contact:

Raymond Brown Minerals & Recycling Ltd, Lee Lane, Nursling, Southampton, SO16 OAD

Tel: +44 02380 732121 Fax: +44 2380 740619 E-mail: [sales@raymondbrowngroup.co.uk](mailto:sales@raymondbrowngroup.co.uk) [www.raymondbrowngroup.co.uk](http://www.raymondbrowngroup.co.uk)

# Earthmover Tyres (Scotland) Ltd



### Retreads New

23.5R 25 £850

26.5R 25 £1000

Bst & Mich

### Partworn Examples

23.R 25, 50% tread. £ 550, 75%, £ 650

26.5R 25 - £ 700, 75%, £ 875

29.5R 25 - £ 900, 75%, £1200

30/65R 25. / 750/65R 25, runners, £350

90% tread £ 1450

All Mich & Bst.

All other sizes available for Dump trucks, Shovels, Scrapers

Various patterns for trucks & shovels

*We also buy casings all sizes payment on site examination, all grades, also retreaders rejects, for our export market*

**Tel:** (44) (0)1333 353331 **Mob:** (44) (0)7831153247

**Email:** [mail@earthmovertyresscotlandltd.com](mailto:mail@earthmovertyresscotlandltd.com) **Web:** [www.earthmovertyresscotlandltd.com](http://www.earthmovertyresscotlandltd.com)

## EARTHMOVER & OTR TYRES



## First mobile IQR FlexHammer 1800 in the UK

Across the valley from Ovenden Moor Wind Farm above Halifax, Envirowaste Services, perched high on Swales Moor, has taken delivery of the UK's first mobile IQR FlexHammer 1800. Part of the Leo Group of companies, Envirowaste Services and its sister company, The Big Green Timber Company, will initially use the high-capacity, heavy-duty, high-speed shredder to increase the amount of wood waste they recover from 25,000 tonnes per annum to 50,000 tpa.

*"The amount of waste wood still going to landfill in the UK is astonishing. The addition of the FlexHammer helps us to divert more material from landfill and recycle it into products for a variety of uses including energy production,"* said Bobby Barr, sales and commercial manager.

As an Environment Agency accredited reprocessor of packaging waste, Envirowaste is already diverting around 25,000 tpa of pallets, packing cases and other types of packaging waste from landfill.

*"At the moment we are achieving around a 75% recycling rate from all the material processed through our waste transfer stations. This new machine we help us to increase that to more than 95%,"* Bobby continued.

Envirowaste operates two fully licensed waste transfer stations in both Halifax and Bradford. The Boothstown site is ideally located for processing material for recycling and they pay particular attention to the impact on local residents, ecological considerations and noise and dust reductions. Providing a reliable collection and recycling service is second nature to Envirowaste, which has plans to upgrade its fleet of 24 collection vehicles in the near future.

*"This is a necessary part of providing the reliable, efficient and on-time service we are renowned for,"* commented Bobby.

He continues, *"As well as ensuring a reliable and dedicated service it means we are always one step ahead. This is also reflected in our purchase of the first mobile IQR FlexHammer in the UK."*

Set up in 1997 and currently employing 55 people, Envirowaste reclaims a variety of materials from its domestic, commercial, C&D, industrial and municipal contracts throughout West Yorkshire. Materials reclaimed include cardboard and paper for pulping; plastics for further reprocessing; wood for board production and biomass; metal; and a range of quality recycled aggregates, including Type 1, 6F2, pipe-bedding and top-soil.

Bobby is enthusiastic about the effect the shredder will have on the company's productivity and finances, *"The flexible hammers make this a true multi-material machine. We can quickly and easily move the machine to a different part of the yard and switch from wood waste processing to converting residual waste into RDF without having the laborious task and associated downtime of changing the hammers to cope with the change in material. Material that would previously have gone to landfill can now be converted into a highly sought after, environmentally sustainable RDF product."*

The C27 CAT engine powering the machine benefits from brand new Advanced Combustion Emissions Reduction Technology (ACERT). This saves Envirowaste Services money in terms of fuel costs due to the lower fuel consumption and benefits the environment with even lower emissions.

When asked about the future of the waste industry Bobby can see an ever closer synergy between the waste and energy industries. *"Some material just can't be recycled, but it can be converted into a valuable carbon-friendly fuel that can form part of the answer to on-going sustainable energy production,"* he says.

He concludes, *"The UK must hit its recycling targets and this machine will help us to divert even more material from landfill and provide an environmentally sustainable fuel that can help reduce carbon emissions."*



[www.hub-4.com/directory/8987](http://www.hub-4.com/directory/8987)

## Metso launches a new mobile waste crusher

**Metso Minerals has launched a new track-mounted, mobile device for on-site waste crushing. The prototype CR 225 LT will be launched at the IFAT 2008 waste management exhibition.**

This new solution for primary waste crushing combines features of its Lokotrack track-mounted crushing plants and the Lindemann series of waste crushing equipment. The result is a flexible crusher that can operate independently of electricity and road networks for up to three days of operation with no need for refuelling. It can serve a number of locations, be integrated flexibly in a machine assembly or can also be leased out at short notice.

The new waste crusher has been designed both for difficult areas and extreme inclines, as well as for difficult materials such as mattresses, carpets, railway sleepers, tree trunks

and even thick rolls of paper. Average throughput is between 30 and 50 tph, depending on the type of household, commercial and industrial waste as well as wood waste and the crusher type.

Efficient crushing of bulky waste is crucial for the availability of the entire waste processing plant, as well as for the performance of the downstream sorting and separation technology. The machine will also serve well in waste collecting and demolition sites as well as in forests or for agricultural purpose to reduce bulky waste and other bulky residue. Future demand for rebuilding of landfills – so called 'urban mining' – will be also a suitable playground for this crusher.

With the mobile waste crushing solution, Metso is responding to the European demand for efficient and flexible waste management solutions. Metso Minerals plans to start serial production of the crusher in 2009.



[www.hub-4.com/directory/560](http://www.hub-4.com/directory/560)





**JCC Engcon Group** 01560 320320  
[www.johncraigcontracting.com](http://www.johncraigcontracting.com)

**Recycling   Compost Screening   Aggregate Screening   Conveyors**

Static Picking Stations



Mobile Picking Stations



Trommel Screens



**JCC Hire**

Mobile Picking Tables/Stations



**JCC Engon**

Tiltrotators   Grabs   Buckets



**JCC MRF**

Complete Installations



*Partners in Productivity*

**FASTER. EASIER. SAFER.  
SMARTER.**

**Total System Solutions to help  
you increase belt conveyor uptime  
and improve productivity.**



In addition to mechanical belt fasteners, Flexco is your single source for a complete family of belt cleaners, belt trainers, lagging, skirt clamps, cleats, tools, and other accessories to maximize productivity and performance up and down the belt conveyor line.

tel: 01274 600 942 • [sales@flexco.co.uk](mailto:sales@flexco.co.uk)

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



### **Dust Suppression Systems**

Transfer Stations, Quarries, Brickworks, Factories, Fragmentation Plants, Paper, Wood & Glass Recycling Plants etc. - 95% dust reduction.

Cures dust problems efficiently without wetting floors, stock, machinery or personnel. Everything stays dry, unlike rotary atomisers and sprinkler systems.

### **Dust Control for roads, yards, stockpiles**

Sprinkler and rain gun systems

### **Odour Suppression**

For landfill, composting, transfer stations etc.  
Perimeter systems and mobile units for sale and hire

For more information, brochures, DVD or site survey please contact:

**Mist-Air Environmental**

Tel: +44 (0)1691 828 487 • Fax: +44 (0)1691 828 499  
[www.mist-air.co.uk](http://www.mist-air.co.uk) • email: [info@mist-air.co.uk](mailto:info@mist-air.co.uk)



## This is no monkey business

**Steve Bailey, director of Rubble Monkey**

**A Red Rhino 4000 series is helping to bring in the customers to 'Rubble Monkey'. The three directors of Rubble Monkey: Steve Bailey, Ian Newton and Garry Brown, established the company back in August 2007 from scratch and the company is now inundated with enquiries.**

*"We had no clients to start of with and bought our 4000 in time for the annual Thame show with the hope we would generate some enquiries," says Steve. "This smaller crusher caused quite a stir and we managed to book our first jobs by the end of the day."*

The majority of Rubble Monkey's customers tend to be small to medium size builders. The company has been generating a steady hire income up to now but has recently noticed a change in the level of phone calls received. Red Rhino believes this is due to the government legislating and regulating the building industry; forcing them to recycle onsite waste instead of sending it to landfill, which could end up costing a lot more than hiring a crusher.

Eddie Goldswain, from Goldswain O'Neil Builders in Aylesbury, recently hired the 4000 from Rubble Monkey to use onsite at a job in Aylesbury. The idea was to dig out the old concrete driveway and reuse the crushed material as foundation at the back of the house where a new extension to the kitchen/dining room where built, and also at the side of the house for a new garage. Mr Goldswain turned up at the Red Rhino factory to ask the details of his nearest 4000 hirer and a week later hired the machine, *"I wasn't sure if it would cope with the material we wanted to crush but it did surprisingly well."* Mr Goldswain also commented on the fact that the crusher was so easy to use, especially as he did not have a lot of extra space to work. *"It was a pleasure using the machine and I will hire it again, especially for jobs where I need to hire a skip in and buy aggregate in."*

Rubble Monkey is based in Oxfordshire, however, it has demonstrated its flexibility by previously delivering its crusher to Southampton, Essex and London.



[www.hub-4.com/directory/713](http://www.hub-4.com/directory/713)

**Eddie Goldswain, director of Goldswain O'Neill Builders in Aylesbury**

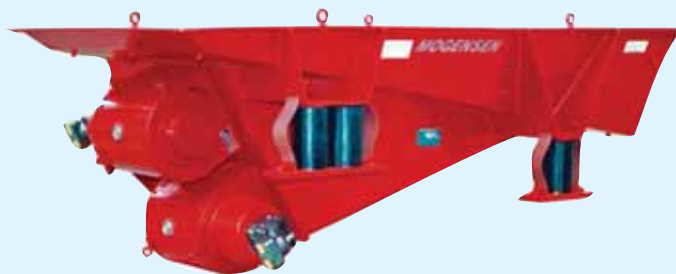


## Special feeder designed for use in mobile plant



**A typical vibratory feeder powered by two Invicta rotary hydraulic vibrators**

Mogensen has developed a heavy-duty hydraulically powered vibratory feeder for use in mobile plant in locations where no power supply is available. This type of machine has found widespread application in concrete recycling plant, in which formerly the output from the crusher fell directly on to a belt conveyor. This arrangement suffered from the disadvantage that reinforcing bars frequently punctured and ripped the belt resulting in serious downtime and costs. The robust Mogensen unit is placed between the crusher outlet and the conveyor belt to absorb the impact of the crushed concrete and align the pieces of reinforcing steel to ensure that they do not hit the belt end-on and become jammed.



**An electrically-powered Mogensen dewatering screen installed in a typical mobile plant.**


Feeders with capacities of 260 and 400 tph are available and have been designed to meet the headroom restrictions, which are a common feature of mobile recycling plant.

Mogensen also offers a compact dewatering screen in both electrically- and hydraulically-powered versions for use in mobile, aggregate recovery plant.



[www.hub-4.com/directory/583](http://www.hub-4.com/directory/583)






Sole manufacturers:  
**AIRMASTER, BMD GARANT**  
**NORDFAB CLIPPED DUCTING**

## DUST EXTRACTION

For mineral processing, conveying and distribution

ATEX QA EN13980  
 ISO9001:2000


Design & installation or supply only; Service and Spares




**Dantherm®**  
**Filtration**

[www.danthermfiltration.co.uk](http://www.danthermfiltration.co.uk)  
 Tel: 01132 739400

Have you ever considered using  
**COMBINED ROLLER  
 BEARINGS & MATING  
 STEEL PROFILES** to solve  
 heavy-duty motion problems?  
 Originally used on forklift trucks,  
 EURO-BEARINGS LTD's com-  
 bined roller bearings can provide  
 a simple and versatile solution  
 in a wide variety of engineering  
 applications.




Full supporting technical  
 data (including down-  
 loadable catalogues) on  
 all of our products can  
 be found on-line at:  
**[www.euro-bearings.com](http://www.euro-bearings.com)**



**NEW!! EURO-VEE BEARINGS & RAIL**

Euro-Vee bearings provide an excellent  
 alternative for linear motion applications in  
 harsh environments, with medium accuracy  
 requirements and high speed capabilities.  
 The T rail has a hardened & polished vee  
 edge & can be mounted against any straight  
 edge & can be mounted against any straight  
 edge. Purpose made fixed & adjustable  
 bushings enable easy fitting.



See **[www.euro-bearings.com](http://www.euro-bearings.com)** for details

## EURO-BEARINGS LTD

**Tel: 01908 511733 Fax: 01908 511713**



**NEW**  
**Exceptional Value**

## Introducing the VTS200 Weighbridge

High quality steel deck

- Extra wide, low profile design
- Accurate and secure weighing
- Superior strength with corrosion resistance
- Compliant to EC 96/53/EEC
- Easy to maintain with long service life
- Fully inclusive 5 year warranty\*

► [www.mt.com/vts200](http://www.mt.com/vts200) **METTLER TOLEDO**

Mettler-Toledo Ltd  
 Tel: 0116 234 5005  
 Email: [enquire.mt.uk@mt.com](mailto:enquire.mt.uk@mt.com)  
 \* Terms & conditions apply.



## the complete conveyor service

**acecms**  
**CONVEYOR MANAGEMENT SYSTEM**  
 Complete conveyor component data and condition  
 reports online at [acecms.com](http://acecms.com)

**acetcm**  
**TOTAL CONVEYOR MAINTENANCE**  
 Proactive maintenance and service contracts with  
 guaranteed business benefits  
 Winner - Cemex Innov8 2006

**ace conveyors**

0870 143 1600 [ace247.com](http://ace247.com) [info@ace247.com](mailto:info@ace247.com)





## Starscreen goes mobile

**Lubo Screening & Recycling Systems' Starscreen, available in UK through Bollegraaf, has been used in applications such as soil, bio-waste, compost, aggregates and C&D waste. To provide a more versatile screening solution a self-contained mobile Starscreen unit has been developed, called The Neptunus.**

Available with one full-size star screen deck or a split-in-two star screen deck with a drop-over (cascade), with a two or three fraction output, the complete unit is built on a twin- or triple-axle, air suspended trailer, which is suitable for transport on public roads. Its compact format allows use at most working locations and also makes the machine suitable for smaller locations.

The unit can separate up to approximately 300 m<sup>3</sup> per hour, depending on the composition and amount of the material to be screened.

A fully self-sustained screening facility, the Neptunus has a 5 m<sup>3</sup> bunker and a rotary spreader (optional) to take care of an efficient infeed to the Starscreen. High agitation and the possibility of a frequency control of all the separate electrical motors provides the best screening result with a minimum of approximately 6 mm fraction (depending on the preferred star setting and start size). Thanks to the HMI display the user has control over the complete setup. Two or three discharge conveyors will transport the materials onto a pile, which can be taken away easily by a wheel loader.

Four star sizes are available for the Neptunus. By altering the rpm of the stars via a frequency control, numerous screening sizes can be achieved.

 [www.hub-4.com/directory/6175](http://www.hub-4.com/directory/6175)




# POWERSCREEN HIRE

- 12 DEPOTS NATIONWIDE
- FULL SERVICE BACK-UP
- HIGH CAPACITY
- MAXIMUM THROUGHPUT SCREENING APPLICATIONS

Tel **024 7640 5100**  
 Fax **024 7640 5020**  
[martin@psws.co.uk](mailto:martin@psws.co.uk)

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







Completely mobile, easily transported from job to job



## Defeat Ever Increasing Oil Prices

Use Roller Compacted Concrete as an Alternative to Asphalt Base

The **Rapidmix 400 C** mixes up to 400 tons (200m³) per hour depending on application

Also used in Soil Stabilisation, Contaminated Land Treatment, Airport Runways and Dam Construction

Also Manufactures:

RAPID PAN MIXERS

RAPID PLANETARY MIXERS

RAPID JETWASH SYSTEM

RAPIDMIX 20B - CONCRETE BATCHING PLANT

GENUINE SPARE PARTS

Rapid International Ltd.  
96 Mullavilly Road - Tandragee - Craigavon  
Co. Armagh - N. Ireland - BT62 2LX  
t: +44 (0) 28 3884 0671  
f: +44 (0) 28 3884 0880  
info@rapidinternational.com  
www.rapidinternational.com



## Xtreme level measurement

Range up to 100 metres

Accuracies to 1 mm

Temperatures from -40°C to +800°C

Pressure from vacuum to 1000 psi



What else would you expect from the UK's leading supplier of level measuring and safety systems?



**HYCONTROL**

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

Tel: +44 (0)1527 406800



# Instrumental in maximising potential

## Stephen Howes discusses the relative merits of control and instrumentation equipment within the solids and bulk handling industry.

The continuing role of control and instrumentation equipment is vital within UK industry and society as a whole, underpinning the basic principals of industrial processes throughout the market place. Remarkably however, despite being a crucial element within both domestic and commercial appliances, it largely remains to be a hidden technology, unknown to the discerning user.

Yet, with the increasing threat of energy shortages and the very real effects of global warming, instrumentation and control technology can offer some respite to UK industry in the form of energy savings and production enhancement. The term 'instrumentation' is essentially the use of tools or instruments for the measurement or control of a given variable. Operating alongside effective controls, the partnership provides a valuable source of information within a variety of working environments. In simple terms, in order for a site to be able to control any number of variables it requires accurate and detailed measurements, gained through instrumentation equipment.

Potentially, depending on the industry, the variables to be measured could be any number of things from powders, liquids or solids all of varying dielectric ranges. With this in mind, there are a number of different sensors available within the market place designed with the specific needs of each variable in mind, and that incorporate within the design a number of challenges that may be experienced on site such as moisture, dust and build-up. It is possible that effective measurement and control at each stage of the production process, bearing these challenges in mind, can increase availability, reduce waste, save time and increase output.

In a typical aggregate process for example, instrumentation equipment can be installed throughout the production process, from level and weighing measurement at the primary crusher, through to the screening process, then on

to the secondary crusher before being stockpiled. This equipment can then be further utilised before the tertiary crushers and on through the blending process and beyond into load out.

Furthermore, one of the most common procedures for industrial instrumentation is the measurement and control of the level of materials contained with storage and process vessels such as bins and hoppers or silos. The use of level measurement here is ideal for reducing spillage and overflow and well as quality control and inventory management. Choosing the most suitable technology for a site therefore is dependent upon a number of factors such as the characteristics of the material to be measured, environmental conditions, and the properties of the container as well as the specific needs of the customers by way of cost, maintenance needs and accuracy. For example, level technologies suitable for the solids and bulk handling industries are ultrasonic, radar, guided wave radar, Inverse frequency shift capacitance and electro-mechanical:

### Ultrasonic

Operational through crusher control, sand and gravel material levels, and ultrasonic technology links a non-contacting transducer to a controller, resulting in a highly cost effective solution.

The non-contacting technology is ideal for the harsh rugged environment seen in the bulk solids environment, the transducers are impervious to moisture, build up, corrosion and vibration and are virtually maintenance free. Ultrasonic technology is successfully used in a multitude of solid bulk material level applications from aggregate stockpiles to crusher control and provides a cost effective solution for the challenges of multiple levels required in screen house applications. ►



# Belt Weighing Systems for all applications **Westweigh** specialists in systems for mobile plant

www.westweigh.com

Other equipment includes:

- Conveyor Safety Switches - Pull Wire and Belt Tracking
- Tilt Switches
- Speed Monitoring
- Metal Detection and Separation Equipment
- Belt Slip Detection

Chosen by professionals and exported  
to over 50 countries worldwide

WestWeigh Controls Limited | Beckford House  
Hollies Avenue | West Byfleet | Surrey England | KT14 6AN  
Tel: +44 (0) 1932 344443 | Fax: +44 (0) 1932 344775  
e-mail: sales@westweigh.com



## There's room at The Source

DAY DELEGATE RATE  
FROM ONLY **£14.00**

The Source  
at Meadowhall  
boasts a range of  
fantastic facilities,  
including a selection  
of rooms available to  
hire, all at competitive  
rates.

These range from a flexible 150  
seat lecture theatre and exhibition  
area, ideal for new product launches  
and company conferences - to seminar  
rooms and smaller rooms for interviewing,  
appraisals and meetings.

The Source at Meadowhall, 300 Meadowhall Way, Sheffield S9 1EA

Tel: (0114) 263 5600

Fax: (0114) 263 5700

Email: [thesource@meadowhall.co.uk](mailto:thesource@meadowhall.co.uk)  
[www.thesource.meadowhall.co.uk](http://www.thesource.meadowhall.co.uk)



## NORD-LOCK®

Bolt securing system

- Prevents loosening caused by vibration and dynamic loads
- Locking function is not affected by lubrication
- No special tools required
- Reusable



**MAXIMUM SECURITY**



NORD-LOCK Ltd • Tel +44 (0)1980 847129 • Fax +44 (0)1980 847674  
[enquiries@nord-lock.co.uk](mailto:enquiries@nord-lock.co.uk) • [www.nord-lock.co.uk](http://www.nord-lock.co.uk)



## Inverse frequency shift capacitance

Inverse frequency shift capacitance devices incorporate a frequency-based approach to level measurement. The capacitance units monitor the effect of capacitance based on frequency change. The relationship between capacitance and frequency is inverse. Because a very small change in level will result in a large frequency change, the result is excellent resolution and accuracy. The capacitance device has been widely used as a level point switch, offering reduced maintenance costs when compared to conventional electro mechanical devices, particularly in applications with build-up. However, due to the high accuracy and repeatability of the Inverse Frequency shift circuitry, capacitance probes are seeing resurgence within the market place as a continual level measurement device. This technology is commonly used as safety devices for applications such as, blocked chute, High / Low level, and alternative failsafe devices for hazardous applications such as Bitumen measurement.

## Radar

Operational through electromagnetic waves, non-contacting radar technology is also a low maintenance technology and unaffected by process atmosphere. The technology is suitable for liquids, slurries and solids such as fly ash silos, (pulverised) coal or finished cement and able to handle extreme temperatures and dust. With the decreasing price of Radar measurement devices many sites are standardising on Radar devices for all their level measurement needs, trying to decrease the amount of spares required for any particular site. However application choices still need to be made, as higher frequency devices will offer better functionality for some environments.

One of the latest products to be introduced into the Siemens range is the Sitrans LR260, available for use on virtually any stored solid medium. As the new two-wire continuous level radar based transmitter it can transmit reliably up to a distance of 30 m even in environments with extreme dust load and high temperature of up to 200 degrees.

## Guided wave radar

Guided wave radar uses pulses of electromagnetic (EM) energy to measure material levels. When a pulse reaches a dielectric discontinuity (created by media surface), part of the energy is reflected. The greater the dielectric difference, the greater the amplitude (strength) of the reflection. This technology is a contact device that is unaffected by changes in process conditioning, high temperatures, pressure and steam, ensuring accurate measurement in level, volume and interface applications. The guided wave radar can automatically ignore obstructions and is able to apply algorithms to raw echoes in order to produce accurate and reliable measurements. This makes the technology ideal for the measurement of liquids or slurry applications of corrosive vapours, foam, saturated steam, high viscosity, quick fill/empty rates, low levels and varying dielectrics and product densities; such as filler silo and Fly Ash.

## Electro-mechanical

Electro-Mechanical switches have been the traditional technology employed for simple level detection. The most common being the vibrating fork. A signal from the electronic circuit excites a crystal in the probe causing the fork to vibrate. If the fork is covered by material, the change in vibration is detected by the electronic circuitry, which causes the relay to change state after a one second delay. When the fork is free from material pressure, full vibration resumes and the relay reverts to its normal condition. This technology ranges from simple / cheap devices that detect liquid level, to the more robust device used to measure dry bulk solids in bins, silos, hoppers or settled solids within liquids (interface version).

## Overview

The concept of continuous level measurement for bulk solids handling is based predominantly around non-contact technologies, providing accurate and repeatable measurement of solids, liquids, slurries and foam from within some of the harshest environments. Siemens instruments are designed to work in these environments, ensuring reliable and continuous level measurement despite the presence of extreme dust, moisture, corrosion, vibration, flooding or extreme temperatures, making them ideal for the solids and bulk industries.

Efficiencies and good performance throughout the supply chain is achievable through effective control and instrumentation equipment and can potentially make a real difference in a company's annual performance and should therefore be an integral part of the continuing progress of the solids and bulk handling industries.

**Footnote: Steven Howes is flow & level specialist at Siemens**



[www.hub-4.com/directory/6773](http://www.hub-4.com/directory/6773)

New  
Depot opened  
in Tamworth

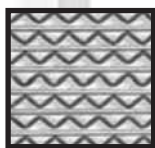
**The No.1 Manufacturers of Screening Media  
in Ireland for over 20 years**



WOVEN MESH



PIANO WIRE



SELF CLEANING



RUBBER MATS

**We provide a complete range of top quality products**

Slotted mesh • Grizzly decks • Finger decks • Polyurethane mats • Perforated plates

**AUGHEY  
SCREENS  
LIMITED**

9 Hedging Lane Ind Estate,  
Dosthill, Tamworth,  
Staffordshire B77 5HH  
Tel: 01827 280555  
Fax: 01827 288555  
[www.augheyscreens.com](http://www.augheyscreens.com)



All major credit cards accepted





## MOVING FORWARD

Corus Strip Products is part of one of the world's largest steel companies. With our parent company, Tata Steel, we employ more than 84,000 people in nearly 50 countries and produce 27 million tonnes of steel every year.

Corus is an equal opportunities employer.

### Manager, Raw Materials Development

South Wales

#### £Attractive Package + bonus + relocation

At Port Talbot we annually consume some 8.5million tonnes of raw materials a year with an annual value of approximately £500million. Managing raw materials handling, processing and general operations demands a mix of organisational excellence and well developed technical and engineering knowledge.

Spearheading optimisation projects and the dissemination of best practice, you will use your broad knowledge of raw materials handling, strong project management, technical and analytical skills to draw up and deliver capital and revenue improvement schemes as well as making a valuable contribution to the development of wide ranging plant improvements to the cost, quality, and environmental KPI's associated with the management of raw materials.

Liaising with colleagues across the organisation as well as contractors, specialists and relevant government agencies, you will thrive within a team environment to achieve the objectives of an annual plan and predefined group goals. A graduate or equivalent in a related discipline, you will have extensive knowledge of raw materials handling and processing and will relish the opportunity to apply your skills and expertise within a world class manufacturing environment at the forefront of strategic and technological development.

In return, we offer an attractive salary package including a final salary pension scheme, 35 days holiday, private medical insurance, performance related pay and a generous bonus arrangement based on business performance.

Please send your CV quoting reference 08/1633 to our retained consultant David Smalley at Daniels Smalley Partnership, Windsor House, 107 Talbot Road, Talbot Green CF72 8AE or email: [david@danielssmalley.co.uk](mailto:david@danielssmalley.co.uk)  
Tel: 01443 229 761. [www.danielssmalley.co.uk](http://www.danielssmalley.co.uk)



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

Corus Value in steel

## ProductNews

As the first in a series of product focus the HUB industry website will publish a special feature on:

### CONVEYING & ANCILLARY PRODUCTS





This product focus will showcase on the HUB website within a page turning magazine version in September 2008.

In addition the feature will also appear in the October edition of the HUB quarterly magazine (distributed to 5,000 recipients).

We are able to offer an advertorial package of up to 250 words plus a box advert (30 x 20mm) for £100.00. Larger adverts and special positions will also be available.

This is an ideal opportunity to position your company in front of a huge audience.....

Now two years old, the website and this quarterly magazine has now proved itself as an essential inclusion within leading company marketing schedules.

Quite simply there is no where else where you can benefit from the web traffic and leadership of the magazine!

## HUB

INTERNATIONAL MINING, METALLURGY & QUARRIES

A comment from one of our advertisers.....

*"We have used both the Hub 4 magazine, email newsletter and web site for a number of advertising campaigns and have found the response rate to be very good. The quality of the enquiries generated has also been very pleasing as has the fact that our own web site gets good referral traffic."*



**Peter Craven**  
Marketing & Sales Support Manager

### Current Statistics

Launched 2006

Current daily unique visitors average 2000+

Current month (June 2008) unique visitors = 35,000

Current month (June 2008) hits = 4 million+

For more information or to book an advertisement please contact: Linda Rainbow - 0845 680 0024  
[Linda.rainbow@hub-4.com](mailto:Linda.rainbow@hub-4.com) [www.hub-4.com](http://www.hub-4.com)

# WANTED

## DUMP TRUCK & LOADER SHOVEL TYRES



- TYRE CASINGS FOR EXPORT
- NEW FORM OF INCOME
- ANY CONDITION CONSIDERED
- ONSITE EXAMINATION
- NO MORE DISPOSAL CHARGES
- ALL RADIAL & XPLY SIZES

Tel: (44) (0)1333 353331

Mob: (44) (0)7831 153247

Email: [mail@earthmover tyre scotland ltd.com](mailto:mail@earthmover tyre scotland ltd.com)



## New hot asphalt storage extension for Lafarge Ashbury Depot

A FMA Ullrich Hot Asphalt storage extension to existing Sherwin silos at the Lafarge Ashbury Depot in Manchester has recently been installed by BG Europa. A two compartment SE120/2 with a total storage capacity of 120 tons split equally between the two bins has been installed to the end of the three existing silos. A 37Kw frequency controlled winch along with a complete track replacement completed the installation. The speed of the skip is controlled through an inverter to ensure rapid transit along the track and gentle arrival at the charging and discharge points with rope stretch accounted for by the continual reset of the skip reference point on each journey. A tachogenerator ensures that skip positioning during operation is accurate to 10 mm; as this system does not require limit switches at the skip charging and discharging points, maintenance issues are therefore reduced. The new bottom discharge skip has a capacity of 2000 kg and is lined with stainless steel to promote clean operation. The skip system can operate at 140 tph with a 52 second cycle time to the furthest bin which represents a significant improvement in skip performance.

The FMA Ullrich UCC5 skip controls feature an energy saving mode which matches skip performance to batch plant output. The speed of the skip is automatically controlled to ensure that it returns to the mixer at the time required for batch discharge, eliminating excessive power usage by unnecessarily accelerating the skip.

As the low level Parker Batch Tower at Ashbury does not allow vehicles to be loaded directly it was imperative that the project was completed during the programmed shutdown period. BG Europa successfully ensured full plant production was achieved on the programmed date with minimal disruption to the established Lafarge customer base.

Joan Hughes, manager of the Ashbury depot, commented: "We were very pleased at how safe the work was completed onsite. During and after commissioning we had very few teething problems. The new skip system has improved our production rate, and reduced down time. The Hot Storage has given us more flexibility so that we meet our customer needs better."

The Ashbury project represents the first BG Europa – Ullrich hot storage installation for Lafarge in 2008. A second installation is planned for the Lafarge Ackworth depot where an S200/4 II will provide 200 tons of storage in a total of four bins; two at 53 tons and two at 47 tons. The S200/4 II parallel storage silo offers a versatile compact storage solution where space and site layout can preclude alternative arrangements. The Ackworth S200/4 will be the third such system operated by Lafarge with the others at Mountsorrel and Hafod Quarries.



[www.hub-4.com/directory/114](http://www.hub-4.com/directory/114)

## Biomass handling demands a tailored solution

Keen to increase the proportion of biomass used in its boilers at Ferrybridge Power Station, to reduce coal usage and minimise the environmental impact of its boilers, Scottish and Southern Energy needed to introduce state-of-the-art burners, as well as the an automated handling system to store and convey this potentially explosive material. Swedish specialists TPS Termiska were brought in to introduce this new technology and deliver a complete biomass handling solution.

Portasilo Bulk Handling Systems completed the materials handling elements of the package. Working closely with TPS and Scottish and Southern Energy, the company developed a tailored system for the specific challenges of the Ferrybridge site, incorporating components from across its product range. The biomass wood pellets are delivered into tipping booths, from where six Portasilo Augerflo variable-speed feeders transfer the product into a pipe conveyor. This fully enclosed conveyor protects the volatile pellets from moisture and is suitable for transporting material over long distances. After travelling for half a kilometre in this pipe, the pellets are deposited into a 5000 m<sup>2</sup> intermediate storage silo.

Because of the material's potentially explosive nature, Portasilo fitted more than 120 m<sup>2</sup> of explosion relief vents to the silo roof. These modifications ensure the silo meets the requirements of ATEX legislation.

This silo is fitted with a hydraulically driven rotating screw extractor, which sweeps the 14m base to collect material from the full silo cross-section. From the silo pit a chain conveyor, ideal for explosive materials, feeds the pellets into another pipe conveyor, which transports the material to the boiler house. Here, two Portasilo 900 mm diameter screw conveyors feed the pellets into two 5 m diameter day-silos. Screw conveyors are used to achieve a controlled transfer of accurate volumes of material into the silos. The day-silos were constructed at the purpose-built Portasilo facility, which is capable of fabricating very large silos in one piece, significantly reducing site costs and build time.

The installation of these silos demanded a precision operation, since they had to be lowered into a steel framework by crane with only inches of clearance on all sides. This operation was carefully planned by Portasilo to minimise disruption to the plant.

From the day-silos, biomass is transferred into six disc mills that feed the new burners. To enable the feed rate from the day-silos to be independently variable, Portasilo Osciflo bin dischargers were used, giving a variable discharge rate of between 0.4 and 4 tph into the mills.

The complete solution included all platforms and supporting steelwork, as well as full-length gantries along the pipe conveyors to provide full maintenance access.

Andrew Mills, project manager at Ferrybridge Power Station, says: "The installation and commissioning of the Portasilo equipment was completed with no disruption to the normal operation of the plant. The advanced system devised by Portasilo fulfils our requirements and is currently delivering increased volumes of biomass into our new burners."



[www.hub-4.com/directory/2316](http://www.hub-4.com/directory/2316)



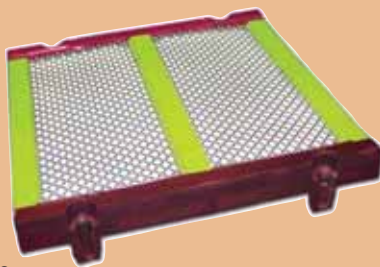


## New solution for blinded flat screen decks

Major Wire Industries' Flex-Mat is a solution for flat-deck polyurethane and rubber screens, is claimed to increase production. The product combines the efficiency and performance of Major Wire's proven Flex-Mat technology with the simplified installation of polyurethane and rubber panels to virtually eliminate blinding and pegging problems on flat-surface screen decks. Flex-Thane's independently vibrating wires, bonded in place with the distinctive lime-green polyurethane strips, also provide more open area for far greater throughput, higher production and better efficiency than polyurethane and rubber screens in hard-to-screen applications. Flex-Thane's modular panels install easily on most common flat-surface screen decks, similar to traditional polyurethane and rubber panels.

Polyurethane and rubber screen media have long been popular for their abrasion resistance, suitability in wet screening applications and simple screen panel changes. But producers who use polyurethane and rubber screen panels often sacrifice significant production for wear life. Especially in wet screening conditions – whether through the use of spray bars or through climate conditions – polyurethane and rubber screen openings will often plug or blind. The result for the producer is frequent shutdowns for screen cleaning, wasted material and/or out-of-spec material, which defeats the purpose of a sizing screen altogether. The new solution is called Flex-Thane. Because this Flex-Mat product ends blinding and pegging on flat, modular screen decks, producers using these types of screens now can realise better throughput, consistent production of spec material and better production numbers.

The product is available in 1' x 1' and 1' x 4' panel sizes, with a variety of locking systems to fit virtually any flat-surface polyurethane screen deck. It can be custom-made in 1' x 2' and 1' x 3' sizes, as well as in mixed dimensions.



[www.hub-4.com/directory/7555](http://www.hub-4.com/directory/7555)

## On-board weighing system range for forklifts

RDS has a new range of on-board load monitoring and weighing systems for Forklift trucks. Requiring no periodic re-calibration these systems are suitable for load weighing in yards and warehouses or for check-weighing incoming/outgoing goods.

A hydraulic load sensor is used to measure the increase in system pressure and the Liftalert informs the operator of load capacity as a percentage of the preset maximum. When this threshold is approached and at overload point an alarm will sound to further inform the operator of load status. This helps the driver to avoid potential tip-over, increasing the safety of the forklift and surrounding warehouse.

The Liftlog 100 is a progression of the Liftalert's functionality. Alongside the overload warning alarms, it also displays the load as a live weight.

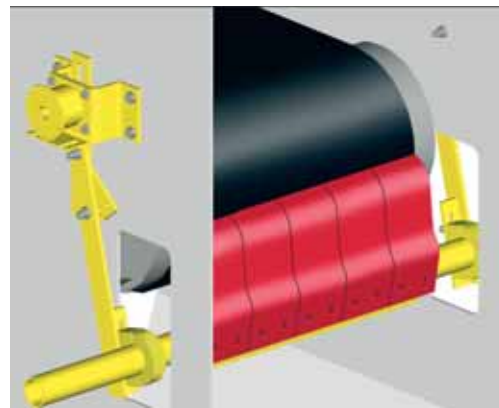
This permits the operator to safely load vehicles and storage systems without risk of exceeding the permitted weight capacity. There is also a multiple channel weighing option for use with different attachments or for different products or customers. With enhanced software features it permits dynamic 'on the move' weighing for fast operation. It too has an overload alarm option and adds a printer function as a further enhancement.

To enhance the warnings to the operator, an optional external audible alarm is available and also a visual load indication light bar to signal current load status giving further and immediate visual indication to the operator and supervisor.

Further complementing the weighing range is the SID 200. This is a speed and distance monitoring instrument that warns the operator when the vehicle travels in excess of the speed limit and logs occurrences of and distances travelled at overspeed in a PIN-protected memory.



[www.hub-4.com/directory/710](http://www.hub-4.com/directory/710)



## Making easy work of belt scraper maintenance

Horizon Conveyor has developed a concept called the 'H' Primary Scraper Range, which adds to its range of belt cleaning equipment. The new system has been designed to eradicate widespread problems with traditional primary belt scraper designs, where complex fitting and long-term maintenance issues have often deterred engineers.

According to Alan Bowler, managing director of Horizon Conveyor Equipment, for conveyor operators using primary and secondary belt scrapers as a cleaning system, the primary belt cleaner is a very important part of that combination. However it can be difficult to mount a standard primary or tangential scraper because of restrictions caused by the motor, gearbox, steelwork or simply because the chute has limited space.

Alan said: "The 'H' Primary Range overcomes these problems. The entire system hangs over the top of the belt frame and is externally chute mounted. This means the scraper can be easily fitted to most conveyor head chutes."

In most cases primary scrapers are not recommended to work with mechanical clip joints. But because of its robust design, the new range is suitable for conveyor belts jointed with or without mechanical clip joints. In the past, engineers have had to compromise when fitting scrapers to their conveyor belts because of the essential gear and drive equipment that restricts how the system can be fitted and maintained.

In addition, conventional scrapers are often located in such confined locations that maintenance is difficult or even impossible. And with constant wear in harsh conditions and the close proximity of heavy machinery, that means scrapers can quickly become ineffective.

But because of the range's design, the scraper adjustment mechanism is kept well away from flying debris and within easy reach for routine maintenance.

Alan said: "It is vital that these systems are straightforward to fit and adjust. Likewise, scrapers need to be accessible for regular maintenance. This system is an evolution in belt scraper design because it solves both of these problems."

The range is suitable for conveyor systems in industries such as aggregates and cement. Originally designed for larger belts, Horizon can build tailored scrapers for smaller applications.



[www.hub-4.com/directory/405](http://www.hub-4.com/directory/405)

# A question of used equipment

**Alan Archondakis is the credit manager and head of Business to Business Finance at Potential Asset Finance. He has been there for two years having previously owned his own finance brokerage and held a number of senior positions outside the finance industry. HUB 4 talks used equipment with Alan.**

**HUB: What are the current developments and trends in the used equipment market? (for quarrying, recycling and bulk materials handling equipment?)**

AA: A general rule is that when all machines are working hard, resale prices will be higher. Conversely, if there is spare capacity used equipment prices will be lower. For example, things are tough in homebuilding right now so equipment is under employed. Used 13 ton diggers have fallen in value, which is great if you're buying but not so good if you're selling. On the other hand heavy construction is still busy, so larger diggers seem to be holding their value. Global conditions also affect the local market. India, Russia and China are spending a lot of money shopping in UK, which has pushed some prices right up. Think mobile cranes and telehandlers.

**HUB: What are the benefits of acquiring used equipment?**

AA: I think there are two main advantages of buying used equipment. Number one is availability. If you need a machine now and there is a long lead-time for new, your choices are waiting, buying used or hiring. Crunch the numbers to get your answer. It's different in every case. Secondly there's price: used kit is cheaper, so you pay less and depreciation is lower. You need to weigh up the benefits of a lower price against the likelihood of higher maintenance and repair bills. There are other considerations: used machines are more likely to break down, sometimes with serious repercussions when you're working on a contract. Image and publicity also spring to mind – a lot of industry chatter surrounds investments in new kit, which is important to some companies and can help you win contracts. And of course finance – it is usually easier to finance new equipment.



**HUB: What are the finance options for second hand plant and their advantages and disadvantages?**

AA: I think that the main methods are hire purchase, finance lease and sometimes op lease. But these are quite well documented so I want to approach the question from a slightly different angle - all lenders will finance second hand plant to a degree, but it is usually the case that older plant is more difficult and more expensive to finance. Mainstream lenders also have clearly defined rules about age and usage, which means a much bigger (percentage) deposit for older kit. Another thing to consider is the supplier. New kit usually comes from approved dealers or manufacturers, but used equipment can come from independent dealers, auctions, end users and more.

Mainstream lenders are more confident with slightly used or





new equipment from recognised suppliers because this reduces many types of risk. If the kit you're after is ageing or the supplier is not well known, look out for niche lenders. They generally have an excellent understanding of their chosen markets and kit. They will take on older and more obscure equipment than the mainstream lenders. They will also accept suppliers other than franchised dealers. A second point relating to used equipment finance is that re-financing and used equipment go hand in hand. Technically called sale and leaseback, this is a way of raising cash by selling your OWN plant to a leasing company. Use the cash now and buy the machine back over a few years. It is a relevant subject because many operators are thinking about cash at the moment. Only some high street lenders will take on sale and leaseback deals, and that is within strict parameters. But the niche lenders will certainly look at it, at a price. But beware, there are tax implications - if you sell an asset for more than it's written down value you will make a profit on it, which may add to your tax bill.

#### **HUB: What are the key points to consider for sourcing finance for used equipment?**

AA: A very important thing to consider when you're shopping for used kit is: "Does the seller actually own it?" If you "buy" something but the seller does not have clear title to it, ownership could revert to the party with title and you may find it very difficult or impossible to recover whatever you have paid. Remember the rule: buyer beware. Manufacturers and top dealers will usually have purchased the used equipment they sell so there won't be any title issues. On the other hand agents usually represent the owner / operator so the agent does not have title. Of course good agents will make sure you get ownership but it doesn't hurt for you to have a working knowledge in this area:

Sight of original invoices and proof of payment is a good start, but the seller could have subsequently refinanced the kit so you should also check the HPI register. Be careful if the seller can't show you an original invoice because some refinance lenders will hold it until the finance is paid off. Also remember that whilst the HPI register is a great help it is not foolproof - I've known lenders forget to register their interest!

Moving on to another point about sourcing finance: repossessions are on the increase and if you're negotiating with a finance company to buy a repo, you can probably get a great deal on the finance as well!



#### **HUB: How long has Potential Asset Finance Limited been in operation?**

AA: We started trading in 1999 as a factoring company, and evolved into an asset finance business over the next few years. We lend our own money and we also introduce business to about 30 other lenders. This means we have a lender for just about every customer and every equipment class!

#### **HUB: What makes Potential Asset Finance Limited stand out in this sector?**

AA: Our products and systems and our approach! I suppose what it really comes down to is our people - for a start we don't always wear suits! And we think our attitude is different. I hope customers see us as refreshing because the finance market is a pretty grim place at the moment! We're very serious about our customers and their money, but we are also creative, helpful and fairly easy-going. We'd like customers to consider us for off-the-shelf finance products or custom solutions, for new starts or long established businesses, from sole trader to PLC and amounts starting at £5000 with no ceiling.







# miningworld

CENTRAL ASIA



17 – 19 September 2008 Atakent Exhibition Centre • Almaty • Kazakhstan

14th International Exhibition for the Mining and Processing of Metals and Minerals



The place to scoop up more  
**opportunities**

Miss Anna Aleinikova  
Event Manager ITE Group plc  
Tel: +44 20 7596 5186 Fax: +44 20 7596 5096  
Email: [anna.aleinikova@ite-exhibitions.com](mailto:anna.aleinikova@ite-exhibitions.com)

[www.miningworld-centralasia.com](http://www.miningworld-centralasia.com)



# Two become One



**FINTEC**  
Crushing & Screening Ltd

T: +44 (0)1283 212121 F: +44 (0)1283 217342  
E-mail: [info@extec.eu](mailto:info@extec.eu) [sales@fintec.com](mailto:sales@fintec.com)  
[www.extec.eu](http://www.extec.eu) [www.fintec.com](http://www.fintec.com)



**EXTEC**