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Issue 13

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

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Election issues

At time of going to press the UK is on the road to a general election. It's being held during a sensitive point in 'interesting' economic times.

Reports on various sectors of the industry featured in this issue highlight how difficult a year 2009 was, yet there are encouraging signals out there, particularly from those looking ahead at the forthcoming exhibitions, previewed in this issue. An underlying optimism in the air is reflected both anecdotally as well as through increasing activity at these events. The Hillhead Exhibition, for example, like numerous major shows across many industries, took a sabbatical last year but returns seemingly stronger than ever.

However, will this optimism be encouraged or quashed by whoever wins the next election? The incumbent government will be faced with an enormous challenge of trying to stimulate economic growth while addressing the problem posed by enormous levels of debt. Calls for cuts in government spending will certainly give the quarrying industry cause for concern if plans continue that seek to reduce net public investment - of which a considerable proportion goes to construction. The decline in the private sector accentuates any reduction public sector investment.

The current Labour government had set out plans to reduce net public investment by 50% by 2013/14. The Conservatives say that they could save £12 billion in the first year of the next parliament, allowing them to start reducing the budget deficit earlier than under Labour though the party has, at time of writing, yet to say how the savings would be made.

Will the next government see construction investment as the Mineral Products Association does? That is as an effective means of stimulating economic growth, where, according to the MPA, each £1 invested in

construction generates £2.84 of economic activity.

Recycling of course has benefited from being high on the business agenda in recent years. The green agenda does not appear to be prominent at the outset of the election campaign. To some degree this is because the UK industry has already picked up the gauntlet, and investment has been shifting to the sector to meet the challenge of carbon emission cuts. Reducing amounts, sent to landfill, and the growing markets for waste product will see interest in waste recycling equipment escalate. There will be other knock on effects of moving towards a lower carbon economy in our sectors - such as a shift in the way bulk loads are transported. As demonstrated by Freightliner, rail can take more bulk loads off the country's congested roads.

Talking of carbon emission cuts: pushing for 30% carbon reduction target will have a detrimental knock on effect on the UK cement industry if this is carried out unilaterally in the UK and EU but not other cement producing countries. This would be a blow to an industry that has reduced CO2 emissions by 40% between 1990-2008.

There is more news in this issue of other demonstrations of how our sectors are doing their bit towards a lower carbon future. For example working with the Carbon Trust on pilot projects to develop a market for cool asphalt, which in addition to speeding-up road works could wipe over a third off asphalt carbon footprint by 2020. Tarmac's Coxhoe quarry in County Durham, meanwhile, became the first hard rock quarry in the UK to be awarded the prestigious Carbon Trust Standard after the company cut 175 tonnes of carbon over the past three years.

The industry is doing great things under considerable pressure.

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

Daren Thomas - Sales Manager
Mobile: 07719 740736
Email: daren.thomas@hub-4.com

Blue Group at Hillhead 2010 - Materials Processing and Handling Solutions for Quarrying and Recycling

Once again, Blue Group is exhibiting at the Hillhead quarrying and recycling show and is on Stand Number E12. As a main distributor for Powerscreen® crushing & screening plants and Telestack conveying equipment, the company will be showcasing these products in their display, alongside specialist recycling, shredding, soil remediation and washing plant and equipment. Working closely with their OEM colleagues, Blue has strategically sited their stand to be adjacent to both Powerscreen and Telestack and a number of new products will be displayed and seen at work in the crushing, screening and recycling demonstration arena nearby.

Blue Group is a major distributor for many world-class marques and, prior to inception around seven years ago, were long-standing distributors as separate regional companies for the entire range of Powerscreen screening, recycling and washing plants and equipment. Powerscreen, part of the global Terex Corporation, remains a core manufacturer for the Blue Group with product ranges that now include Powerscreen® Pegson mobile crushing plants.

Powerscreen represents the most commanding global force in the design and manufacture of mobile crushing & screening plants and, arguably, dominates the UK quarrying and recycling markets through their appointed distributors. As a further development in providing a comprehensive and turnkey service to the quarrying and allied industries, Blue is also a well-established distributor for Telestack conveying systems. With the range including ship loaders and stockpilers as well as telescopic, quarry face and link conveyors, these versatile products, alongside the screening and crushing plants, enable Blue to offer the very best compatible tailored solutions.

New Powerscreen Products from Blue Group

The new Powerscreen

Warrior 2400 is at the top of the well-established Warrior range of screening plants, designed and built for large-scale operations in the quarrying and recycling industries.

The Warrior 2400 features a robust heavy duty incline screen with a high amplitude triple shaft screen drive. A heavy-duty, high output plant, the versatile Warrior 2400 is able to accept large feed sizes and process up to 700 tonnes per hour. This enables screening, scalping, 2-or 3-way splitting and stockpiling of aggregates, topsoil, coal, construction & demolition waste and iron ore. The Warrior 2400 is perfect for high volume applications that require a versatile screening plant which still offers convenient transportation, fast set-up times, easy operation and maintenance simplicity.

The new Powerscreen® Pegson 1500 Maxtrak features a high performance 1500mm cone which can be used for making aggregates, surface dressings, road-base or rail ballast, with capacities up to 950 tonnes per hour, depending on the material feed sizes and products required.

Specifically developed for larger end users the Pegson 1500 Maxtrak can accept an 'all in' feed from a primary crusher, thereby eliminating the need for pre-screening which would reduce the cubicity of the finished product. The feed hopper is equipped with a level probe which maintains choke feeding of the cone crusher, thereby improving cubical shape and increasing fines production for 'road-base' applications. The taper roller bearing design, with hydraulic setting, tramp release and unblocking system, ensures excellent productivity and ease

of operation and the metal detection system with integral contaminated

material removal reduces the chance of tramp metal from entering the crushing chamber. Dust suppression sprays are also included as standard to reduce environmental emissions. Adjustment can be made 'on the run' using touch button controls with direct read-out of closed side setting.

The new Powerscreen® Pegson XA750 jaw crusher is designed and built for primary crushing and includes features that are ideal for both quarrying and





recycling applications.

The Pegson XA750 has a highly aggressive crushing action with hydraulic crusher setting adjustment. The high-swing jaw eases material entry into the crushing chamber and the hydraulic adjustment enables crusher setting changes to be made quickly and easily over a wide range, which is particularly suitable for applications where regular jaw setting adjustments are required. The strong I-beam construction of the chassis is designed and built to withstand even the most arduous of conditions and the low ground pressure crawler tracks are site proven for the toughest of terrains.

Telestack Conveyors from Blue Group

Telestack International designs and manufactures a comprehensive programme of conveying systems with both standard and bespoke ranges - all of which are available through Blue Group. The majority of the Telestack conveyor systems are mobile for ease of transport between locations and total mobility on site. The range includes:- Telescopic, tracked and 3-wheeled self-drive stockpiling conveyors; ship and barge loaders and offloaders; quarry face and overhead conveyors; material transfer link conveyor systems; hopper feeder conveyors. Key markets for the range include quarrying and mining; ports, terminals and inland waterways; dry bulk materials handling; construction and allied industries; materials reclamation, recycling and waste management.

Recycling and Washing Plant Equipment from Blue Group

In addition to products and services aimed specifically at the quarrying and aggregate extraction industries, Blue Group is also a main distributor for Doppstadt shredders and chippers, Kiverco recycling plants, Backhus composting equipment and General Kinematics finger screeners and de-



stoners. With the increasing emphasis on recycling and reclamation - from secondary aggregates to biomass fuels for power generation - Blue Group is also displaying specialist plant and equipment for this burgeoning marketplace. Amongst this market-specific display are:- A new Blue 620 trommel, with numerous innovative maintenance features such as an easily removable drum screen and an engine which can be hydraulically lowered out of the side of the machine for easy access. A new generation Doppstadt 3060 Bio Power shredding plant, specifically designed for producing bio mass for power generation. The company will also be unveiling a new CUB L Mix soil remediation and mixing plant, ideally suited for mixing of sticky, wet and contaminated soils. Additionally Blue will be unveiling the new Matec filter press for dewatering applications, which can be easily incorporated into any modern washing plant to produce high quality clean aggregates and clays to specification and, significantly, make reductions in

After Sales Product Support from Blue Spares

Blue Spares is the essential provider of original Genuine OEM spares for the materials handling and processing machinery marketed by Blue Group and will be displaying their wares on the Group stand. The company has recently made significant investments in state-of-the-art IT equipment and enlarged storage facilities and is now one of the largest single source suppliers of crushing, screening and recycling plant and equipment spares throughout England, Scotland and Wales.

The Blue Group team looks forward to welcoming visitors and customer colleagues to what will be an informative and impressive display at this important industry event.



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Government investment called for as industry sales volumes plummet

The dramatic reduction in aggregates and cement industry sales in 2008 and 2009 provides further evidence of the scale of the construction recession and highlights the need for Government to preserve investment as a driver of economic recovery.

Crushed rock and sand and gravel aggregates sales volumes declined by 25% and 23% respectively in 2009, cement fell by 25%, ready-mixed concrete by 30% and asphalt by 18%. Although the sales volume decline moderated towards the end of 2009, this reflected a comparison with declining markets in 2008, and actual volumes remained extremely low throughout the year. The cumulative effect of 2008 and 2009 is even more marked, with aggregates and cement sales falling by 35% over the two years, ready mixed concrete by 40% and asphalt by 20%.

The unprecedented reduction in sales is a consequence of the severe contraction in construction activity through 2008 and 2009, and it has occurred despite some government construction spending being brought forward following the 2008 Pre Budget Report. Although the economic recession may have technically ended in the final quarter of 2009, the outlook for construction remains negative, with orders for new construction down 14% in the first eleven months of 2009. ConstructionSkills estimates 375,000 construction jobs have been lost in 2008 and 2009, a figure which will continue to worsen this year.

Commenting on the implications of these data, Simon van der Byl, executive director of the MPA, warned: *"The danger for the economy is that current Government plans to focus public spending cuts on investment will stifle the chances of any recovery in construction activity. This in turn would limit the potential for economic recovery and badly hit much needed investment in areas such as housing, transport, health and education. For example, in recent weeks we have all seen how the cold weather has exposed the already poor condition of much of the road network and highlighted the need for sustained investment in this area."*

Construction activity is one of the most effective means of stimulating economic growth and employment, but the evidence from our sector and elsewhere is that industry workload is still declining. We all recognise the scale of the public sector deficit but sustaining public investment in construction as much as possible over the next five years is absolutely critical to economic recovery and the quality of public services."

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Bruce launch new branding

BRUCE commonly known as Bruce Engineering, plant manufacturers based in Cookstown, Co-Tyrone, N.Ireland, have been designing and manufacturing bespoke machinery for quarrying, materials handling, washing and recycling industries for over 50 years, supplying many of the key market leaders today.

Under the BRUCE Company there are six sectors including:

BRUCE Feeding - Range of Feeders (Electro-magnetic, Electro-Mechanical)

BRUCE Screening - Vibrating screens, Grizzlies

BRUCE Washing - Washing plants, De-watering screens

BRUCE Recycling - Picking stations, Pan Feeders

BRUCE Engineering - Bespoke Solutions, Complete Plants, Installation & Maintenance

BRUCE Steel - Hardox Wearparts, BRUCE are the exclusive Hardox Wearparts manufacturer in Ireland. BRUCE factory boasts a range of modern fabricating and machining equipment to facilitate the workforce to expertly carry out a complete range of small precision work to large capacity machining.



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New director for flagship plant

CEMEX, has appointed a new director at its flagship cement plant in Rugby Warwickshire. Brian Southam, 50, was previously in charge of engineering and maintenance at the plant, and joined the company 29 years ago at the company's Southam cement plant, which has since closed. He moved to Rugby in 1998 to assist and oversee the building and commissioning of the new Rugby plant, which, based on its annual capacity of 1.8 million tonnes of cement, is the biggest cement plant in the UK. Brian will report into CEMEX UK's vice president for cement operations, Carlos Uruchurtu, who is a member of the UK management team.

About his new role, Brian said: *"I have followed this plant from planning stage to the world class plant it is today, and am delighted to take up this position. My key challenge will be to further improve on the performance that the plant has achieved over the past few years. It has been more than two years since our last lost time injury, and for me, it is key to continue this focus on health and safety, to ensure that every employee goes home safe and sound at the end of a working day. Last year, we also saw an 83% reduction in environmental incidents, and my priority will be to continue this downward trend."*

Over the coming months, another focus will be to ensure that our cement making is as sustainable as possible, by successfully completing a 65% trial of Climafuel; a refuse derived alternative fuel that diverts waste from landfill and significantly reduces the carbon footprint of the plant.

But I am committed to excellence across the board, and so will also be looking to implement new maintenance techniques to provide higher reliability at the plant in line with our fellow plants in Europe."

Brian takes over from Luis Galan Domingo, who has decided to leave the company.



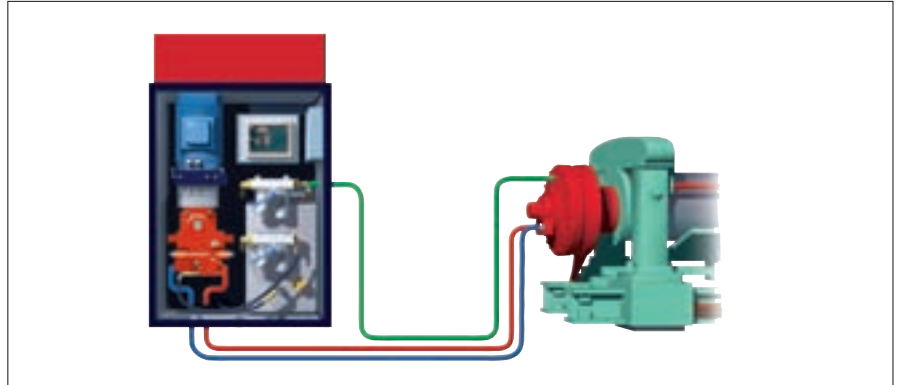
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Tough drives for demanding applications.

Direct hydraulic drives for bulk materials plant.

Heavy plant requires reliable, efficient, low maintenance drives and there is something very attractive about Hägglunds Compact drives that do away with the need of gearboxes and offer a simple arrangement and extremely effective performance on all types of bulk handling plant.

Hägglunds now manufacture a very wide range of hydraulic motors and customised power units which can be matched exactly to your needs. They provide full torque throughout the speed range so starting up with heavy loads is no problem. You get smooth controlled and responsive start, stop and reversing without having to oversize the standard AC electric motor. They are simple shaft mounted and easy to install without foundations or alignment problems. They provide benefits for



A typical Hägglunds Drive consists of a drive motor selected from the wide range available to give the torque required. A power unit with a variable displacement pump/motor set and necessary tank, filters and instrumentation. A control and monitoring unit and the inter piping. The arrangement is versatile and flexible which enables customisation to suit the exact requirements of the application and environment.

applications like conveyors, feeders, drums, mills, mixers and heavy mobile plant; featuring versatile mounting, through drives and perfect power sharing for one or more motors acting

together. The power unit can be positioned well away from the drive in a convenient place leaving a compact drive with minimal maintenance to do.



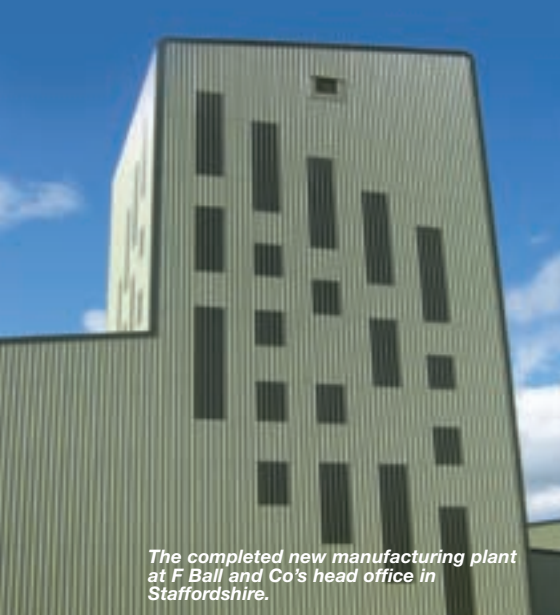
Heavy drums can be driven by one or more drives sharing the load, in this case 4 drives. The pressure in the system inherently balances between the drives and a smooth efficient operation is assured. Hägglunds drives are also used on Digesters, Cement Kilns and Sugar Diffusers and Trommels.



This 8000 tonne/hr belt conveyor at LKAB's Luleå plant in the north of Sweden was supplied by Roxon. They were impressed with the smooth speed control and that the shaft mounted motors require so little space and no foundations. Vibrations and noise levels were also lower than normal and it can run fully loaded at low or high speeds as required.



This Stock Redler belt feeder needs very high torque at low power and is driven by a Hägglunds Compact Motor CA140 with variable speed and starting torque some three times higher than nominal and demonstrates the attractive simple and compact arrangement. Hägglunds Compact motors are highly efficient And come in over 40 sizes so they can be exactly matched to your needs.



The completed new manufacturing plant at F Ball and Co's head office in Staffordshire.

Making a mark

Assistant contract manager, Mark White, has made an impressive start to his career in contract management with Fairport Engineering. Having been awarded HNC qualification in Project & Quality Management last year; his first major design & build project has gained the "Industrial Work" runner-up award in the annual Staffordshire Building Excellence Awards 2009.

These awards highlight builders and developers who have achieved outstanding quality in their construction work and Fairport's project for F Ball and Co of Cheddleton, near Leek, Staffordshire was considered worthy of reaching the final by an independent judging panel after its completion in the middle of 2009.

F Ball and Co awarded the project to Fairport Engineering in 2008 for the complete design and build of the new £7.0M manufacturing plant for flooring screed and flooring preparation products, which would increase their production capability and strengthen their premier market position.

Fairport had previously assisted F Ball and Co with the project's development and definition and so was in a position to thoroughly understand all the inter-related design and construction issues; not least the requirement for the building to maintain the existing flood plain and in effect be "raised on stilts" to achieve this.

Construction work started in earnest in August 2008 and the plant was commissioned and handed over to F Ball and Co in June 2009 following a fast track build programme involving some 50,954 construction man hours and incurring ZERO LTAs. Mark, as part of Graham Potts', Fairport Contract Manager, team was site based for the majority of the construction phase and contributed significantly to the effective, timely and safe manner in which all construction operations were undertaken.

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(L - R) James Igoe & Stephen Tubby, directors F Ball and Co., Graham Potts, Mark White & Linda White at LABC Awards Lunch

20 year quarry extension secured

Environmental firm SLR Consulting has helped secure planning permission for the quarrying of a further six million tonnes of sand at Sevenoaks Quarry in Kent.

SLR's planning and EIA team, consisting of planners, landscape, transport, noise and air quality experts worked with Tarmac's in-house experts over a six year period preparing a planning application and Environmental Statement that was followed by two supplementary submissions, two public exhibitions and two council site visits.

Permission was granted by Kent County Council subject to contributions to highway improvements and air quality monitoring.

The consent secures the future for a variety of businesses based at the quarry including sand extraction and processing, bagging plant operations, mortar production, top dressings and specialist soil production.

The restoration of the existing site, which will start in the early years of the extended operation, will make a major contribution to local biodiversity objectives and improve public access to the countryside.

SLR project manager, Ian Lofthouse said: "Clay and sand has been extracted from Sevenoaks Quarry for over 80 years.

The sand has been used for high profile projects including The Gherkin, Chelsea FC and Arsenal FC stadiums, Wimbledon Centre Court and Shakespeare's Globe Theatre.

In granting consent the planning committee recognised the quality of the material and the importance of the business to the area."

Cemco names supplier of the year



The Hanson Cement team celebrate their success at the annual Cemco awards (from left): Gary Dyson, national sales manager packed products, Keith Ellis, commercial director, Nick Emsall, business manager packed products, and Graham Boyd, sales director packed products.

Hanson UK has won its second supplier of the year award after claiming top honours at the annual Cemco Merchant Network conference.

In addition to picking up Cemco's top award, Hanson Cement's packed products division also won the best heavy side supplier (over £1.5 million turnover) category at the buying group's annual supplier conference.

These awards follow closely behind the announcement that Hanson was named supplier of the year by Stent Foundations - now part of Balfour Beatty Ground Engineering - and all three recognise the company's commitment to customer service.

Cemco building products trading director Chris Hopkins said: "The

competition for the heavy side supplier of the year award is always strong and this year was no exception. Hanson won for its high levels of customer service and its wide range of high quality products."

Hanson supplies Cemco with over 60,000 tonnes of packed cement as well as aggregates and cementitious products throughout the UK.

Hanson Cement commercial director Keith Ellis said: "We have an excellent working relationship with Cemco and are delighted to receive this award. It recognises the part that everyone in the company plays in the success of our business."

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Investment in serving the waste recycling sector

Hutchinson Engineering has made a £800,000 investment in a state of the art Tube laser machine - An Adige LT8 Tube and Section Laser. This is only the second of its kind to be installed in the UK, and will process box, pipe, angle and channel with a 3-D head. This machine brings with it a new dimension in laser-cutting -with endless possibilities in terms of fabrication techniques and processes. Mark Hutchinson, managing director commented: *"This machine has the potential to transform fabrication techniques, bringing a new dimension to issues such as putting holes and profiles in sections."*

Hutchinson Engineering, which operates a 25,000 ft2 plant on a two acre site outside Kilrea, Northern Ireland, was established in 1971. It currently employs over 40 members of staff.

Many of their customers are involved in the waste recycling sector, and it is hoped that by utilising the new tube laser, there will be substantial savings in terms of labour as new methods of fabrication can be utilised.

The LT8 can process box section up to 200 x 200 and pipe up to 220 mm diameter with a loading length of 8500 mm.

Initially there will be two new jobs created, with the prospect of an additional two within the next 24 months.

Along side this new investment, Hutchinson has two flat bed lasers, capable of processing up to 4000 x 2000 x 20 mm material as well as folding capacity of 4000 x 10 mm.

Hutchinson Engineering is hoping that the move will strengthen its position as one of Northern Ireland's leading subcontract manufacturing companies. Tube Laser cutting is a new addition to 3D design service (H360), Sheet metal laser cutting, Folding, fabrication, and Finishing.

 www.hub-4.com/directory/12530

Pathway To Zero Waste wins £1m boost



Dr Chindarat Taylor, PTZW director

Pathway To Zero Waste (PTZW) has been successful in a bid for matched funding worth £1m from the South East European Regional Development Fund (ERDF) Competitiveness Programme 2007-13.

Building on the initial investment from the Aggregates Levy Sustainability Fund, the contribution from ERDF takes

PTZW's total operating budget for the first three years of the programme to £3m.

PTZW will use the additional ERDF support to accelerate and expand delivery of many key projects concentrating on construction and demolition waste, and to promote the outputs to a much wider audience than originally anticipated.

Dr Chindarat Taylor, PTZW director said: "I'm delighted that ERDF has recognised PTZW's ability to make a massive difference to the economic, environmental and social well-being of the South East, by making sure that materials currently thought of as 'waste' are managed as a valuable resource instead.

"ERDF's support is a real endorsement of the work we've done so far, and will help us get more organisations on the Pathway To Zero Waste much more quickly, giving the overall impact of our programme a significant lift.

"We now aim to reduce the amount of construction and demolition waste going to landfill in the South East by almost two million tonnes by the end of March 2011."

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Mentor gains Proskills Academy Accreditation



Richard Bloxham - Network Development Manager - Proskills (L) presents to Steve Parfitt - Extractives Manager - Mentor.

Mentor is one of the first training providers to become accredited to Proskills National Skills Academy for Materials, Production and Supply. The NSA accreditation has been developed to supply employers with a directory of quality assured and relevant training providers giving them piece of mind that the training received is of high quality and to an industry recognised standard.

Richard Bloxham, network development manager for the Academy said: "The aim of the scheme is to mark out the best performing training providers to employers in the sector. Use of an accredited provider will ensure you receive the very best training available. We look for two key attributes when accrediting, evidence of occupational competence in the training of staff and evidence of the impact their training makes to business."

Extractives manager for Mentor, Steve Parfitt accepted the award at the recent Proskills UK Annual Conference. He said: "Mentor is proud to be among the inaugural members of the accredited training providers to the National Skills Academy. We look forward to working with all industries associated with the academy."

Training available under the Proskills NSA accreditation includes courses for all types of fork lift trucks, telescopic handlers and mobile plant equipment.

 www.hub-4.com/directory/6755



Cool asphalt to cut carbon emissions

Cool asphalt could cut carbon emissions and speed-up road works. UK industry leaders start trials to wipe over a third off asphalt carbon footprint by 2020

The UK is set to slash the carbon emissions of road works and cut traffic delays following the announcement today by the Carbon Trust of pilot projects to develop the market for low temperature asphalt.

Companies including Tarmac, United Asphalt and Aggregate Industries have partnered with the Carbon Trust to invest in projects that could cut energy bills and wipe a combined 339,000 tonnes of carbon off the asphalt industry's annual footprint by 2020, equivalent to 39% of current emissions.

The majority of UK asphalt is currently produced at around 170 degrees Centigrade but lower temperature 'cold mix' and 'warm mix' asphalt uses less energy to produce and can be ready to drive on much sooner. With cold mix this can reduce road works by anything up to 12 hours, cutting congestion and disruption. Using cooler asphalt also reduces many health and safety risks associated with higher temperature materials.

The trials will also test heat recovery technology to reduce the carbon emissions from the burner that heats and dries the aggregates: the main energy consumer in the hot asphalt manufacturing process.

Dr Mark Williamson, director of innovations at the Carbon Trust, said:

"There are huge carbon savings to be gained from using cooler asphalt. We are partnering with the leaders in the UK industry to prove the benefits so that more cooler asphalt will hit our roads soon."

The Carbon Trust has already launched a carbon-reduction strategy to help the aggregates industry reduce its carbon footprint by 20% and shave some £45million a year off its energy bills. We are now targeting the next level of carbon savings by demonstrating innovative technologies and solutions that could cut carbon across the industry and help cut the UK's carbon footprint."

The Carbon Trust is providing funding for the projects through its £15m Industrial Energy Efficiency Accelerator. Following a call for proposals in September last year the Carbon Trust has so far selected three consortia to take forward projects, each of which will take around two years to complete:

- Tarmac, Nynas, Atkins and MIRO will demonstrate semi warm and cold mix asphalt with the aim of securing approval from highways operators at a local and national level for colder types of road surface. This approval is needed for wider industry uptake. The Carbon Trust is contributing £275,000 of funding for the project with the consortium providing £410,000. The technology could save 118,000 tonnes of carbon per year across the industry by 2020.
- United Asphalt, Shell Bitumen and Berkshire Engineering will seek to maximise the amount of reclaimed asphalt which can be used in road resurfacing by combining warm mix asphalt and an innovative new aggregate dryer. West Berkshire Council will seek to utilise this innovative material within the district of West Berkshire as soon it becomes available. The technologies could reduce an asphalt plant's carbon emissions by up to 22% and by 2020 could be saving over 188,000 tonnes of carbon across the industry each year. The Carbon Trust is contributing £237,000 of funding. The project team is providing £358,000.
- Aggregate Industries will install an innovative heat recovery system at its Houghmond Hill site in Shrewsbury. Developed by Econotherm, it will cut energy use by using waste heat to pre-heat the air combusted in the asphalt burner. Trials will tackle issues including moisture and dust in the recovered hot air. By 2020 the technology could be saving 33,000 tonnes of carbon a year. The Carbon Trust is contributing £195,000 of funding. The project team is providing £219,000.

The Carbon Trust has been working closely with the aggregates sector over the past two years to identify opportunities to improve energy efficiency and has now published a report of its findings called 'Industrial Energy Efficiency Accelerator - Guide to the asphalt sector'.

The Carbon Trust has a dedicated manager, David Pratt, to ensure that opportunities for energy saving and emissions reduction are maximised within the sector.

Dr Nizar Ghazireh, the project director from Tarmac, said: *"Working to continuously improve the sustainability and carbon efficiency of road materials is of key importance to Tarmac, Nynas and Atkins, and we are delighted to be working with the Carbon Trust on this*

project. The team will be running trials using semi-warm and cold temperature asphalts, designing mixes that can help to speed up road works and creating industry-standard design specifications that can easily be adopted by highways operators. The ultimate aim is to create wider market acceptance of these lower temperature, lower carbon materials and evaluate their whole-life carbon impact. By making the critical step from technical development to commercial uptake, the team hopes to unlock the significant environmental and practical benefits that these materials can deliver, and create more carbon efficient roads."

Ross Snape, managing director of United Asphalt said: *"This pioneering project has the potential to fundamentally change the asphalt industry in the UK, producing sustainable low carbon products. We are delighted to be working with the Carbon Trust, our innovative technology partners and a forward thinking supply chain and client, who are committed to making a step change in the performance of the industry. In these times it is unacceptable to continue to ignore the sustainable resource and new technologies we have available to re-use recycled asphalt pavement and produce low energy products that have the same performance as hot mix asphalt. With this innovative project we will be able to manufacture products that could halve the carbon footprint of traditional asphalt products"*

Paul Taylor, UK carbon manager of Aggregate Industries, said: *"As a key part of the supply chain for construction materials, Aggregate Industries has long recognised the part it can play in the UK's transition to a low carbon economy. Innovations like this are needed and we are pleased to have been selected to participate in the IEEA programme."*

Technical manager at MPA (Mineral Products Association) Asphalt, Malcolm Simms, welcomed the announcement by the Carbon Trust, noting: *"As responsible operators, MPA Asphalt members support the Government policy of reducing emissions of greenhouse gases. For those companies involved, the assistance provided by Carbon Trust with investment for innovative products and processes will clearly be a significant boost, particularly in the current challenging economic climate."*

"I hope that the projects will identify and enable the adoption of practical, value-driven and transferable means by which the whole of the sector can make a contribution to UK emissions reduction targets."

The Carbon Trust's Industrial Energy Efficiency Accelerator aims to transform the traditional sector-specific processes that underpin British manufacturing. In partnership with industry leaders, the organisation is identifying and demonstrating new, lower-carbon solutions that can be replicated widely across each sector, saving an average of 28% on energy costs and carbon emissions. The Carbon Trust is currently working with the asphalt, animal feed, plastic blow-moulding, dairy, bakery, confectionery, paper and brick-making industries and plans to engage a total of around 25 sectors.



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New view for Skako website

Skako Comessa has just launched its new company website. The new, easy to navigate website demonstrates the depth of the company's current product ranges with equipment allocated within a new 'Industry Solutions' section.

Categorised within 12 industry sectors it illustrates how Skako Comessa equipment can be utilised to perform specific duties within a specific industry. There are detailed photos of each individual application with comprehensive information from how to handle two metre lumps of blasted rock, accurately proportioning rivets, washing phosphorous minerals or even grading carrots.

New navigation within the site also includes a new download section where the company's product brochures can be accessed. Revolving photo galleries are featured on the home page with further navigation offering access to an insight into the company including its global contact details. The new website can be found at www.skakocomessa.com.



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news

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Recycling fightback

New home for Recycled UK brings five new jobs and the promise of a £1m breakthrough



(l-r) Paul Green of Recycled UK, Tim Baldwin of AdvantageWest Midlands and Paul Cotton of Recycled UK

A Black Country recycling specialist has fought back from the downturn in the plastics industry to double its turnover and complete its move into a new 30,000 ft² processing facility in Coseley.

Recycled UK, which specialises in recycling post industrial waste, has managed to offset declining material prices by increasing its client base and introducing new services and is now predicting to turnover £1m by the end of 2010.

This marks a major period of growth for the firm and also comes as welcome news to the local manufacturing scene, with five new jobs created as a result of the expansion.

Paul Green, founder and managing director, picked up the story:

"At the beginning of 2009 we were faced with major reductions in the value of plastic which left us with two options; the first was to stand still and probably go out of business and the second was to become more proactive, look at ways of doing things differently and actually attack the marketplace."

He continued: "As anyone who knows us will tell you it was always going to be the latter and we sat down and looked at where new opportunities existed and what we needed to do to make the most of them.

We couldn't just sit back and wait for work to come to us so we went out and targeted new customers and the results were emphatic. From working

predominantly with automotive, body repair and domestic products we quickly picked up contracts with local authorities, lighting manufacturers, high street retailers and even the people behind the big PVC David Beckham posters you see on motorway billboards.

These new business wins have seen our turnover grow to nearly £600,000 and the only way we could continue to provide the level of service our customers expected was to move to a new site."

Backed by this new approach, the company recently moved into the facility on Cannon Business Park, immediately doubling floorspace and giving them adjoining modern offices to base the administrative function in.

Recycled UK has also invested more than £110,000 into new shredding and granulating machines and a state-of-the-art picking line, which will see it diversify even further into recycling unsold CDs produced by recording artists.

"The investment in capital equipment has been made possible thanks to a £55,000 WRAP/AWM grant, which has helped us speed up growth by more than a year," explained Paul, who intends to create a further five new green jobs over the next twelve months.

With the new machines up and running we will be processing more than 80 tonnes of plastic every week and the good news is we will be selling it back into UK manufacturing and UK products."

Recycled UK provides a complete service from full site surveys and production audits through to collection and safe removal of all plastic waste.

It pays higher than normal industry rates for sorted at source plastic before shredding then granulating it to be sold back into industry.

Blended plastic is 75% cheaper for manufacturers to buy and, whilst not suitable for high-end aesthetic products, there are hundreds of applications it can be used in, making it a valuable commodity for companies looking to reduce costs.

"The last twelve months have been a rollercoaster of emotion, but the downturn has certainly revolutionised the way we do business. We now provide stillages and waste boxes on customer sites and even have a team out following a local council picking up damaged wheelie bins ready for recycling," said Paul.

Advantage West Midlands' Tim Baldwin concluded: "This is excellent news all round with new green jobs being created locally and a specialist in recycling expanding to ensure more businesses have the option to divert plastic waste from landfill.

The WRAP grant has turned an exciting concept into reality and the economic benefits are there for all to see."



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New baler for waste management company

Privately owned family business Willshee Waste Management has recently installed a PAAL KONTI 275 baling press along with a PAAL KES 1750 conveyor.

Dean Willshee said: "This is the second baling press purchased from PAAL, the first machine was a PGS 6540 and although it coped manfully with everything we threw at it we out grew the machine and needed something that would cope with the increased volume that we put through our yard." Willshee continued: "The new machine needed to be able to bale, plastic film, PET, cardboard, paper plus aluminium and ferrous cans. We decided that the new KONTI series with the special electronics and new hydraulic system plus cross wiring would handle all of the materials we need to process. This has proved to be the case."

Another factor that influenced Willshee's decision was the fact that PAAL'S sister company 'DICOM' is based 30 miles away in Alfreton in Derbyshire. DICOM has a team of PAAL factory trained engineers to install, repair and maintain baling presses, Willshee had been impressed with the level of service provided by DICOM-PAAL, whenever they had been required to service or repair the first PAAL machine.



www.hub-4.com/directory/12651



Sovereign goes back to school with a crusher

A Northamptonshire-based plant hirer has used a cross-hired Dig A Crusher 700 bucket to tackle some vital construction and demolition waste recycling duties at Rutland's Uppingham School. The 2.25 tonne attachment played a key role in the ongoing extension of the school's multi-million pound sporting facilities.

Northamptonshire-based Sovereign Plant has used a Dig A Crusher 700 excavator-mounted crusher bucket to spearhead the extension of one of the UK's most exclusive boarding schools. Mounted on a Caterpillar 320 hydraulic excavator, the attachment has been used to process construction and demolition waste, providing valuable recycled materials for the development of Rutland's Uppingham School.

Located in England's smallest country, Rutland, Uppingham School is home to some 750 boarders from across the UK and is renowned as the school that invented "all-round education".

Pupils have access to almost 50 hectares of space, large parts of which are dedicated to theatre, the arts and sports. Uppingham is also famous as the former school of TV celebrity chef and author Rick Stein.

The school is currently in the midst of a major upgrading as part of a multi-million pound programme to extend its already extensive sports facilities.

As part of that upgrading programme, Sovereign Plant has supplied a Caterpillar 320 hydraulic excavator equipped with a Dig A Crusher 700 screening bucket attachment to process concrete and brick hardcore.

Hired from Dig A Crusher, the unit was used to turn the "waste" rubble and demolition debris into a 40 mm fill product that will be used in the foundations of the extended sports facility.

"We didn't want to take a dedicated track-mounted crusher or screen into the school grounds because of the noise and disruption it would cause," concludes Sovereign Plant managing director Terry Bright. "The Dig A Crusher 700 proved to be a good replacement and allowed us to process material without incurring the cost of removing it from site."



www.hub-4.com/directory/7272

Viridor Waste places large machine deal

Five of JCB's largest wheeled loading shovel models - the 456eZX Wastemaster - are now performing green and domestic waste handling duties across Greater Manchester after being purchased in one of the highest value waste equipment deals in Europe.

The order - which includes a long-term repair and maintenance contract with JCB dealer Gunn JCB - was placed by Viridor Waste (Greater Manchester) and the five machines are now in action at sites at Sharston, Salford, Rochdale, Stockport and Oldham.

Viridor operates the sites under contract from Viridor Laing (Greater Manchester) Ltd (VLGM) after the signing of a 25 year Private Finance Initiative earlier this year with the Greater Manchester Waste Disposal Authority (GMWDA).



The JCB models are used to load green waste into shredders and for stockpiling general household waste at the Transfer Stations across the region. The machines have been tailored to the exact requirements of Viridor with specialist waste and recycling specifications including: air-conditioning; belly, brake-pipe and cab-screen guards; a carbon air filter; a smart reverse alarm and a wide core radiator.

Viridor Waste's plant manager, John Turner said: "The JCB models were selected after a successful tender and are proving to be extremely productive and reliable in the arduous waste handling environment we operate in. This is no surprise to us, as a previous JCB model clocked up over 8,000 working hours for us in four years with very little downtime. The choice of tyres offered by JCB for the Wastemaster models is also crucial to our productivity and performance. Depending on the application we operate puncture resistant tyres or, when greater suspension is required, we use the super solid variants. We have also been impressed with the service from Gunn JCB which has always been responsive."

The deal between VLGM and the GMWDA will trigger a £640 million construction programme creating a network of state-of-the-art recycling facilities over the next five years. The waste management project will provide an integrated solution for the 1.3 million tonnes of municipal waste which the authority handles each year. Within the new contract Greater Manchester will be able to recycle and compost over 50% of all waste by 2015.

The latest JCB 456eZX Wastemaster wheeled loading shovel features the traditional qualities of high breakout forces and robust construction with the added benefits of sophisticated operation, a larger field of vision, increased comfort, improved performance and serviceability. The model is proving highly successful in waste transfer, MRFs, waste to energy and compost operations.

Waste weighing in Orkney overhauled

An upgraded weighbridge system brings operational advantages in the Orkney Islands.

Weightron Bilanciai has carried out a major overhaul and system upgrade on a Shering weighbridge at the council operated Bossack Waste Transfer and Landfill Facility, located at Tankerness near Kirkwall, in the Orkney Islands.

The project has involved the replacement of the existing load cells on the 12 m, 30 ton capacity weighbridge, together with the installation of Weightron's card-operated Self800 driver operated terminal and D520 high visibility remote display in place of the existing instrumentation. Time was of the essence when the upgrade was carried out to ensure there was minimum operational disruption at the site. The complete project, including weights and measures reverification of the new installation, was carried out by Weightron's engineers in just four days.

The Orkney Islands, which have a population of around 20,000 people, are located off the northern tip of Scotland where the North Sea and the Atlantic Ocean meet. Orkney is an archipelago of 70 or so islands and covers an area of 974 square kilometres, with more than half being taken up by the Mainland of Orkney.

The Bossack installation is one of the UK's most northerly weighbridges and is used for weighing incoming and outgoing council and private vehicles up to 30 tonne capacity. Waste entering the site includes domestic green

waste, commercial waste from private skip hire companies, hazardous waste and waste electrical goods from other islands within Orkney. Products leaving the site for resale include a range of waste recyclables and compost. Weighing is carried out automatically by the delivery-collection drivers, thereby freeing up site operatives to carry out their normal duties. Each vehicle has its own designated swipe card and operators can have multiple cards.

Orkney Council's Operational Waste Team leader Jonathan Walters is very pleased with the way the project has been handled and as he concludes: "Weightron engineers worked closely with our personnel and the installation was carried out within our tight time restraints. The new driver operated system is extremely versatile and offers us important advantages over the original system. Drivers leaving site, having deposited their loads at the relevant area within the site, are required to fill in additional information via pre-set selections on the Selfbox screen. This includes the type of waste delivered and the source destination. This provides council management with comprehensive waste data from which we can measure the effectiveness of the five civic amenity centres together with other waste collection streams. Data is downloaded daily to the site computer from the Selfbox and we have the future option for remote data access via Ethernet."



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WCL takes delivery of new reclaimer

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Simon Winner, managing director of WCL

West Midlands quarry company WCL is cutting down on waste and generating revenue from surplus material with the purchase of a new Terex Finlay 883 Reclaimer from Finlay Central.

The new plant is enabling WCL to reprocess rejected sand from the quarry and convert it into backfill for the utilities industry.

WCL's Cranebrook Quarry - located between Lichfield and Brownhills - carries out wood waste recycling, inert waste recycling, decorative aggregate sales and landfill - along with the traditional extraction of dry screened building sand.

The new Terex Finlay 883 Reclaimer replaces a five-year-old 883 also supplied by Finlay Central, which was used to screen inert material into soils, oversized hardcore and middle grade at the site.

The new 883 is continuing to be used as a multi-purpose machine, with WCL utilising it to process wood, as well as demolition rubble, which goes on to be used in building waste reclamation.

It is also reprocessing rejected sand - working with an existing Terex Finlay 390 Hydrascreen portable screening machine, used to process dry screened building sand.

Simon Winner, managing director of WCL, said: "The 390 is used to screen sand from the quarry face, with the fine sand then sold for building and the rejected sand stockpiled.

The new 883 Reclaimer reprocesses the rejected sand - making easy work of breaking down lumps of sandstone.

It produces three grades for us. The reprocessed sand, which is passed through a 20 mm slotted mesh, is being sold for use as utilities backfill rather than being wasted. The medium grade sand is passed back through the machine several times and the oversize is added to hard core".

As well as the new Terex Finlay 883 Reclaimer and 390 Hydrascreen, other machinery at the site supplied by Finlay Central includes two Terex Finlay 683 three-way split machines, used to produce MOT Type 1 crushed concrete, and to recycle wood waste, as well as a Terex Finlay J-1175 jaw crusher.



The 883 Reclaimer

The purchase of the 883 is the first time WCL has brought machinery new. Previously, all machines supplied by Finlay Central have been purchased second hand by WCL.

Simon added: "This new 883 replaces our 2005 version and offers increased ground clearance, allowing higher stockpiling capacities and easier access to the screenbox for cleaning and maintenance.

It was the right time to part exchange the older model, considering its resale value for our first new purchase from Finlay Central.

I had no hesitation in replacing the 883 Reclaimer like-for-like, as it is an extremely efficient and versatile machine."

Neil Bailey, sales engineer of Finlay Central, said: "The key to the Terex Finlay 883 Reclaimer is its adaptability, whatever the application or industry.

At WCL, the plant's capabilities are already driving new efficiencies and revenue streams."



www.hub-4.com/directory/1824



Crushing versatility

JOD Haulage enhances their full service offering to the construction industry with the latest in mobile crushing and screening

Due to recent growth in its business, JOD Haulage has recently invested in new crushing and screening equipment. The new equipment has been purchased to take advantage of Embassy Demolition Contractors joining the JOD group of companies, and the provision of an enhanced full service offering.

The acquired crushers and screens recently are two QJ340s (formerly Extec C12+) and two QE140s (formerly Extec Robotrac). Both machines are suitable for the demolition and recycling industry and, therefore, for JOD Haulage's business.

Jim O'Doherty formed JOD Haulage in 1987, initially as a single owner driver. He saw a niche in the market to provide a highly skilled service to the building and construction industry. Today Jim has developed his business based on a reputation of total reliability, and quality of service.

JOD Haulage has developed into a large organisation that provides recycling, demolition, haulage, skip hire and the provision of quality recycled aggregates. These services all require careful management skills, but the core ethos of the company remains the same: a total commitment to quality service for all clients.

Two decades on Jim's insight and vision, combined with his determination, is still paying off as the company continues to grow. It is through Jim's commitment to developing and maintaining the highest standards of customer and environmental care, wherever possible preventing site contamination, that has allowed JOD Haulage to provide a service second to none, but also be very proud to be committed to walking the green line.

In January 2007 the Embassy Demolition Contractors joined the J. O'Doherty Group of Companies. The combined group can now provide an enhanced service that is both competitive and efficient. As JOD Haulage has grown and developed so have the demands of the construction industry. These demands for very high standards on site have allowed the company to meet the need to deliver the best in bulk excavation, site clearance, waste management, demolition, recycling, haulage and providing construction materials on demand. Plant hire is another vital aspect of the company; often part of JOD Haulage's large fleet works in partnership with many of its clients, who now see them an integral part of their own business.

Communication has proved to be a vital aspect of JOD Haulage's business. All of its vehicles are now fitted with the latest radio controlled tracking system, ensuring contact with any of the vehicles at any given time on or off site. Health and safety have gone hand in hand with communication and the company now boasts an excellent health and safety record, employing industry experts to assist in the development of their integrative health and safety policy. This policy is constantly reviewed and revised as new legislation dictates, placing a priority on the welfare of their employees, as well as the sites on which they operate.

Given JOD Haulage's commitment to the environment, health and safety, and quality of service, it is no surprise that when they updated the mobile screeners and crushers they chose Sandvik.

The new equipment

The QJ340 track-mounted mobile jaw crusher has a reverse crushing action capability to relieve blockages, and by an automatic jaw lubrication system that is fitted as standard.

The QE140 track mounted scalping screen employs an efficient screening process that allows it to double as a grading screen for many applications. The unit's mobility allows the operator to manoeuvre the unit to any position from an excavator, or loader, enabling speedy screening and stockpiling on a planned route. Designed to scalp the heaviest of material, it also has the ability to screen finer sizes and offers the maneuverability to work on the ledge of a mountain quarry or on the demolition site of a skyscraper to provide a versatile screen in terms of production and mobility.

The four machines will allow JOD Haulage to produce quality aggregate products from recycled materials. Much of the material will come from the projects they work on, and will include: Type 1 crushed concrete, Type 2 crushed concrete, 6f1 concrete fines, 6f2 crusher run, Screened top soil, MOT type 1, Sharp sand, Reject sand, Reject stone, 10 mm recycled pipe bedding, 20 mm recycled pipe bedding, 10 mm shingle

20 mm shingle and Ballast.

All four machines were delivered on the 9 March replacing the existing Extec machines. Jim O'Doherty stated: "We got great service from the Extec C12+s and Robotrac's, and the new Sandvik machines are part of our continuing development to offer the very best service to our clients."



www.hub-4.com/directory/296



Barry O'Regan of Sandvik Mining and Construction (left) and Jim O'Doherty of JOD Haulage receiving delivery.

New pump improves efficiency and final product

Commercial Recycling Ltd (CRL) is Dorset's largest independent waste recycling organisation and currently operates four processing sites employing over 100 staff throughout the South West.

Within its recycled and secondary aggregate washing operations CRL currently operate a Tecnoidea plate press, which required a replacement feed pump, which would offer improved efficiency and performance.

Experiencing high wear with the rubber wet end parts with the existing rubber lined pump, CRL approached and tasked Linatex to supply a pump which would feed at a minimum of 7 bar end pressure, provide longer wear life at a reduced cost and be covered by local support and spares back up.

Linatex subsequently supplied a Linatex hard metal pump HSN100 (with packed gland and expeller seal) which delivers the fine, flocculated, thixotropic, abrasive slurry feed material from a sludge holding tank to the press.

Providing a superior performance than its predecessor the HSN100 pumps the material at a minimum of 8.5 bar end pressure enabling the press to work more efficiently and produce a dry filter cake.

The on-site installation in November 2009 by the Linatex Service Team took just one day to complete, which also included some pipework modifications with the customer back in production immediately.

Past service results with the Linatex hard metal pump HSN100 indicate the pump will be a clear winner, which will deliver a minimum of 12 months part life with a cost saving of 30% in contrast to the old rubber pump.

After delivering and installing the pump within one week of receiving the order, the customer was delighted with the performance of the pump. The Linatex hard metal pump will provide the customer with substantial savings on maintenance



costs, with the wet end wear life expected to be twice that of the original pump parts.

The increased pressure provided has not only led to a drier filter cake being produced but has also allowed more water to be recycled for use within the system. Alongside the additional saving in fuel costs for transporting the drier filter cake (lighter material) to stockpile the Linatex hard metal pump HSN100 will provide CRL with the "lowest cost of ownership" for its integral part in their ongoing recycling operation.

Ian Mariner, director at CRL, comments: "We always aim to use the highest quality equipment to aid the success and efficiency of our operation. We have been delighted with the Linatex pump we have received and the ongoing service & support the Linatex staff have provided us."

The CRL Recycled and Secondary Aggregate Washing Plant was originally part funded by WRAP to produce 265,000 tonnes over a 5 year period. Since the start of the project in October 2007 CRL have consistently provided high quality aggregate for use in concrete, drainage and construction. An estimated 500,000 tonne of natural gravel will be preserved from excavation during the lifetime of the plant.



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WHAT WE DRIVE . . . WE CONTROL

Recycling is the buzz word of the 21st Century, with everyone eager to improve their green credentials, help cut carbon emissions and reduce landfill costs. In this current climate companies' environmental credentials are under constant scrutiny and they are expected to meet challenging environmental targets and be seen to be setting an example.

The forthcoming Futuresource sustainability event, at London's ExCeL, 15-17 June 2010, has over 350 exhibitors from every sector of the recycling and waste industries, with innovative solutions to help your company achieve more resource efficient systems and a more sustainable future.

The show, now in its second year, is hosted by the Chartered Institution of Wastes Management (CIWM) and the Environmental Services Agency Association (ESA). Supporting organisations include the Energy Institute (EI), Local Government Association (LGA), and the British Institute of Facilities Management (BIFM).

Futuresource is divided into six zones, which comprise, Waste & Water Management, Professional Services, Air Energy & Climate Change, Street Scene & Facilities Management, Recycling & Compost and Vehicles & Plant. There's also an extensive conference programme covering key industry issues.

Visitors will find on the JCB stand, the company will show three of the 25 model Wastemaster models: the extremely popular and unique Teletruk 35D, a 416 HT wheeled loading shovel and a JS160W wheeled excavator complete with hydraulically raised cab.

The Teletruk 35D is a 3.5 tonne capacity forklift, the telescopic boom design offers many, many more advantages than conventional FLT's. Fitment of a Quickhitch ensures maximum versatility, enabling compatible attachments such as buckets, grabs and fork rotators to be utilised. The model on show will feature cascade rotator which adds 360° rotation in both directions.

Waste not want not at Futuresource




Caterpillar's D7E on a Veolia Landfill site in Rainham Essex the first time the unit has been operated in Europe since its US launch in 2009



The JS160W wheeled loading excavator will be shown with a hydraulically raised cab for greater operator visibility when loading into high-sided containers. To meet the arduous demands of the sector, the machine also features a wide core radiator, fire extinguisher, re-fuelling pump, front screen guard, P3 Cab air intake filter, a heated suspension seat and an air-conditioned cab and can be fitted with "street pads" to protect asphalt surfaces.





JCB's JS160W wheeled excavator

Also on show from the JCB wheeled loading shovel range is the JCB 416HT Wastemaster, which is ideal for working in restricted sites, particularly when loading sorted waste in picking station bays.

Finning Caterpillar is promising an exciting display of a number of specially adapted waste handling machines. The machine that will take centre stage on the company's stand will be the new D7E electric drive dozer.

Finning Caterpillar reported that the D7E uses 10 to 30 percent less fuel and, on average, moves 10 percent more material per hour than its industry-leading predecessor, the Cat D7R. The new D7E Waste Handler blends the efficiency of the D7E with features that allow it to take on harsh landfill applications with best-in-class performance, durability and economy. The noise levels have also been dramatically reduced by 50%.

Other 'blue chip' manufacturers who have confirmed their presence at the forthcoming Futuresource exhibition include, Liebherr, Blue Machinery, King Feeders, Bradshaw Electrical Vehicles and Farid. Full details are available on the website: www.futuresourceuk.com



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RWM announces headline sponsors for biggest show to date

With 85% of exhibition space already sold out and backing from a host of major industry names, RWM 10 taking place at the NEC, Birmingham from 14-16 September is set to be bigger than ever before.

Central to the show will be the new Viridor Visitor Lounge where visitors can network and access web resources. Dan Cooke, external affairs manager for Viridor said: "We are pleased to be supporting one of our industry's leading events which chimes with our continued focus on quality recycling and promoting resource efficiency. The new visitor lounge provides an excellent facility for RWM guests and, as its sponsor, Viridor will be right at the hub of the exhibition's networking activity. Delivering essential recycling, renewable energy and waste management services is what it's all about for us, now and in the future - and RWM provides the perfect opportunity for us to share ideas with customers and partners."

The dynamic outdoor exhibition area already boasts names such as Mercedes Benz, Ford, Isuzu Truck, BMI Municipal, JCB, Terex and Liebherr, while inside hundreds of exhibitors are returning to do business again, and many are investing in larger stands. "RWM is undoubtedly the key event in the industry calendar, and as such we're keen to be involved. Each year we've been so impressed with the quality and quantity of visitors, that we've increased our presence in the show," says Clare Noble, managing director, PHS Group.

Chris Oldfield, managing director, Riverside Waste Machinery says: "The RWM exhibition is without doubt one of the most prestigious trade events the UK is lucky enough to boast...For us at Riverside, there was no better place to unveil the revolutionary UNTHA TR shredder last year. Interest, as expected, was phenomenal and we found ourselves quoting for £17m worth of shredding technology as a result of 150 different enquiries. Some industry statistics suggest that the UK's approach to waste

management is trailing behind that of fellow European nations, but after attending an RWM event many would question if that is in fact the case."

SCA Recycling, due to open a £15 million Materials Recycling Facility in Southampton this summer, and Bywaters have been signed as sponsors of the Local Authority Seminar Theatre, with Motherwell Bridge sponsoring the Energy & Water Theatre.

As a long term supporter of the show, Straight will be exhibiting again this year and has also been named as RWM's onsite recycling sponsor. "Exhibitions often produce large amounts of unnecessary waste. We want to reduce the amount of waste that is created by the show and is sent to landfill," explains Jonathan Straight, chief executive, Straight plc. Full details are available on the website: www.rwmexhibition.com

 www.hub-4.com/whatson



Recycling show by the sea

The Plant & Waste Recycling Show takes place on Torquay's Eastern Esplanade on 8-10 June 2010. With a 25 years venue history PAWRS is a meeting point for many of the biggest names in the recycling industry from across Europe and the USA.

PAWRS attracts a broad range of exhibitors from product and technology manufacturers to niche specialists or comprehensive full service suppliers. They all offer solutions to reduce waste, manage its disposal or recycle it.

The show's seafront location with all the attractions of the Devon coastline, make this a special exhibition for the industry. Waste and recycling business leaders established this event following CIWM's relocation of its conference to London.

Names such as Liebherr, Hydres, Penny Hydraulics, Hinowa and APS, Zoeller/FAUN, Skip Association, Fluid Power, Baughans, Hammel and Vision Techniques will be there to talk to visitors. Full details are available on the website: www.PAWRS.com



Figure 1 It is the Trellex TFX system's extreme flexibility that helps eliminate blinding.

Rain doesn't stop play

Hanson's Forestwood quarry overcame its problem of excessive blinding during wet weather thanks to rubber screen media.



Richard Grey

Wales is renowned for many things - but dry weather is not one of them. A combination of being close to the Atlantic and having lots of mountains means that it rains. A lot. This is good for growing grass to feed the country's 10 million sheep but bad news when fine screening limestone using conventional steel wire mesh, which tends to clog and blind over in damp weather.

This was the problem facing Hanson's Forestwood quarry in Pontyclun, Mid-Glamorgan. The blinding led to potential size and cleanliness quality problems with finished products, with the 10 mm and smaller fractions in danger of being out of specification. It also meant that two or three times a day in bad weather the screen would have to be shut down and site engineers asked to climb into the screen and clear the blinding using rubber mallets. Taking up to an hour each time, this unpleasant job in a confined space also resulted in a significant loss of productivity, estimated to be between 20,000 and 30,000 tonnes a year.

"You'd be in there on your hands and knees, and it was a dirty stinking job," says quarry foreman Howell Bryant, who has been at Forestwood since the early 1970s. "It wasn't a hard job, but you'd rather not do it three times a day. But since we fitted the new system we've only been in twice this year - they are a million times better," he laughs. The 'new' system that Bryant mentions is the Trellex TFX rubber mats from Metso. Specified and supplied by Metso's area manager Gareth Brooks, Trellex TFX excels in conditions of up to 7% moisture, thanks to its extreme flexibility, which help prevent the material from blinding over.

Forestwood Quarry was opened in the 1950s and acquired by Hanson in 2001. The quarry's plant was installed in the late 1990s by Unifloc and consists of a BJD rotary impact crusher, a SBM rotary impactor and four Hewitt & Robins screening modules. A team of 10 men extract and process a quarter of a million tonnes of limestone (psv= 55) a year. One of eight Hanson quarries in the area, products include 40 mm, 28, 20, 14, 10, 6 mm and dust. They are used for base course material, drainage material, capping and aggregate for a premix concrete plant that shares the site with the quarry. Interestingly, over 400 tonnes a month of 6mm stone is supplied for use as cat litter.

Richard Grey is the production supervisor - and the driving force for the quarry's switch from wire media to Trellex TFX rubber mats. "We were having a terrible problem with the Module 4 fine screen that produces 10 mm, 6 mm and dust," he says. *"It was constantly blinding up in wet weather. The Trellex TFX system was more expensive but as it needs almost no unclogging - and therefore no production stoppages - the payback in terms of increased efficiency was very rapid. The lifespan of the rubber is also considerably more than the metal wire - by up to five times. Other than checking the tension and pinching up the bolts once a month, they will require almost no maintenance during their expected lifespan. This frees up our engineers for other duties, as they are not constantly being asked to clean the screens anymore."*

The flexible solution

The Trellex TFX system is available in several thicknesses with molded and punched apertures. Installed on screens with longitudinal supports, they can be fitted on cross and longitudinally tensioned screening machines. Their effectiveness lies in the extreme flexibility of the rubber screen 'cloth', where constant movement inhibits the material from blinding or pegging. The mats are reinforced with integral cords that maintain tension and provide accurate separations. No deck modifications are needed to the screen and panels are fitted with wear strips to protect the panel from wear from the camber bars. While particularly effective on Limestone, Trellex TFX works well on a range of material types where blinding and pegging is a problem, including clay, coal, gravel and sand.

"Metso supplied two of its own engineers to fit the new deck and ensure it was installed properly," says Grey. "They also showed our fitters how to install and maintain them correctly. Since then the Trellex TFX mats have been largely trouble free. No screen can cope in extremely wet conditions, and even the Trellex TFX mats can blind over. But with the rubber system blinding is a rare exception - only twice in eight months - rather than a twice daily occurrence. This guarantees that the aggregates are clean and of the right size whatever the weather, and as they are so durable I'm not expecting to replace them for some time," concludes Grey. "In fact I'm considering using Trellex TFX for the top deck of the screen also."



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Track mounted screen and feeder for polar border region



Haver & Boecker demonstrated its ability to meet customer requests when it embarked on the development and production of a heavy-duty Haver Niagara T-Class vibrating screen along with a weighty Haver Niagara vibrating feeder for track-mounted operation in the polar border region.

Both machine types have been specially adapted to the requirements of the Norwegian manufacturer of mobile plants Haahjem AS from Vigra who is renowned for its heavy-duty CTC mobile plants with a total weight of over 100 t.

The focus here was on the adaptability of the machine to achieve the desired performance as well as high levels of flexibility. In addition, paramount importance was attributed to the

machines' availability and functionality in a harsh environment with extreme weather conditions as part of a Haahjem CTC 136 S3M track-mobile secondary crushing and classifying plant with a feed rate of up to 500 t/h.

The unbalance parameters can be quickly adjusted over a broad range.

Accordingly, the Haver Niagara T-Class vibrating screen has been rounded off with a pre-heatable circulation oil lubrication, which particularly allows for a safe machine start and a long service life of the bearing for these low ambient temperatures.

The drive of the Haver Niagara UF vibrating feeder consists of robustly built unbalanced motors.

Meanwhile, the company has sold two track-mounted secondary crushing

and classifying plants type Haahjem CTC 136 S3M, which have been equipped with a Haver Niagara UF vibrating feeder 1200 x 4500 and a Haver Niagara T-Class vibrating screen S150 1800 x 6000 - 3D.

One mobile plant is presently being shipped to its place of deployment in Russian Karelia, whereas the second plant is ready for transport to the polar border region, to Jamal in Siberia.

Based on trial runs with material on the premises of Haahjem AS at Vigra in Norway the company's managing director, Kristian Haahjem, is enormously satisfied with the Haver & Boecker machines.



www.hub-4.com/directory/2312

Replacement sizer for lime product manufacturer

Singleton Birch, the UK's largest independent manufacturer of lime products, recently installed a Type S2056EL Mogensen Sizer to replace a machine, which had been in service for about 28 years. The Sizer, a 2 m, five deck machine fitted with Mogensen-designed electric heating to the two lowest decks, is handling 70 tph of crushed chalk in the size range 0 - 10 mm, and removing 63 tph of material finer than 3 mm.

Mogensen enjoys a long-standing relationship with Singleton Birch having supplied a total of 19 machines over the past almost 40 years. During this time it has been necessary to replace only two of these machines. The range of machines installed by the customer includes 0.5-, 1.0-, 1.5-, 2- and 3 m Sizers, a couple of small conventional Mogensen screens and two large vibratory spreader feeders. The processing duties

comprise the screening and feeding of a variety of relatively fine sizes of crushed chalk and burnt lime. Most feed sizes are less than 15 mm and the separations are principally in the range 4.5 to 1 mm: an exception involves the difficult duty of screening of 30 tph of burnt lime to remove 7 tph of fines <0.15 mm.

Singleton Birch is based in north Lincolnshire and manufactures products, which include graded chalk, quicklime, hydrated lime and aggregates. The company has been quarrying Lincolnshire chalk for almost

200 years and today produces 400,000 tonnes of lime and over 1 million tonnes of chalk annually, supplying materials mainly to the steel, chemical, building and environmental industries.



 www.hub-4.com/directory/583

35 tonne dump hopper/feeder for CEMEX at Bramshill Quarry

Following a successful project at neighbouring Eversley Quarry, Canning Conveyor is to supply equipment for the CEMEX sand and gravel operation at Bramshill Quarry in Hampshire. Canning has received an order to design, manufacture and supply a new 35 tonne dump hopper/feeder, which will accept up to 35 tonnes of sand and gravel from reversing dump trucks.

Fitted with flare plates to decrease the possibility of spillage the hopper will be fully fabricated from 6 mm thick mild steel plate suitably stiffened with RSA/PFC sections. All internal sloping surfaces will be fully lined with 10 mm low friction white perplas. Inlet dimensions of the hopper are 4 m wide x 3 m deep, with the hopper fitted with a hinged sloping product grid to accept the material whilst rejecting any oversize. The hopper outlet will feed onto a short 5 m troughed belt feeder which will be designed to discharge onto the loading point of a new field conveyor (also by Canning) at the rate of up to 200 tph. This feeder will be driven by a 15 kW drive unit and will feature close pitched rubber covered impact idlers, multiblade scraper at discharge, vee-type return belt plough and emergency stop pull wire system all around.

Both the hopper and feeder will be mounted onto a braced and stiffened supporting structure which will be fitted on one side with heavy duty reinforced plates to accept the load of the oversize coming off the product grid.

The new 160 m long troughed belt conveyor on installation will elevate as a standard field conveyor at surface level, up graded ground before elevating above the surface as an open 'dog house' type lattice gantry structure. The conveyor will then run horizontally inside a totally enclosed gantry bridge over the A30. At the north side of the road the conveyor will again be of open 'dog house' type lattice gantry structure approximately 60 m long, in 12 m long sections. This section of the conveyor will be elevated above ground on lattice trestles from the totally enclosed bridge to clear the existing quarry bund and will then slope down towards the quarry floor where the head end discharge section of this gantry will cantilever to discharge on to an existing radial stockpile.

The tail end impact area of this conveyor will be fitted with close pitched heavy duty rubber covered impact idlers, skirt plates and a return belt plough. A Westweigh belt weigher will be fitted to this section of the conveyor complete with recorder and continuous indicator.

The elevated gantry sections will be fitted with 750 mm wide walkways both sides of the galvanised open mesh on the 'dog house' sections and will consist of fully sealed durbar plate over the bridge. The bridge will be sealed at both ends and fitted with lockable accessible doors. A three-sided platform will be fitted at the discharge with all walkways being accessed from the ground at the south side and via a stair at the north side. A gravity take up system will also be fitted locally to one of the support trestles within the quarry.

The drive/discharge will be fitted with a 630 mm diameter, ceramic lagged, 37 kw Canning SuperDrive motorised drum, primary and secondary belt scrapers and a discharge chute including a crash box to direct all material including the scrapings onto the existing radial stockpile.

The installation of the conveyor bridge will entail closing the A30 overnight whilst the structure is lifted by crane into its final position. Local diversions will be in place for a maximum of 12 hours.

Installation is scheduled for April-May 2010 when the equipment will be tested and commissioned by Canning engineers.

 www.hub-4.com/directory/1715

Four from Terex

Terex Finlay launched four new models to dealers and customers at Terex MPE annual business conference, held recently in Ireland

Terex Mobile Processing Equipment (Terex MPE) recently hosted a four day conference and new product demonstration in Ireland for international dealers and customers. During the conference, held at the Slieve Russel Hotel in Co. Cavan, guests were introduced to the new Terex MPE business structure, business strategy and key focus areas for the coming year. Product development projects were outlined and the product implications relative to Tier 4 engine regulations were highlighted.

The product demonstration was located at Clarke's Quarry in Lisnaskea, Northern Ireland where Nigel Irvine, sales & marketing director, introduced several new equipment layouts:

- New Terex Finlay J-1480 tracked jaw crusher, feeding into a new Terex Finlay C-1550 tracked cone crusher, feeding into a new Terex Finlay 694+ inclined 4-way split screen feeding into a Terex Finlay 984 tracked triple deck horizontal screen.
- New Terex Finlay 694+ was also operating in a closed loop formation with a Terex Finlay C-1540 tracked cone crusher for the reduction and recirculation of oversize plus material.
- Terex Finlay J-1175 tracked jaw crusher feeding a Terex Finlay 883 tracked heavy duty screener in a typical quarrying application.
- Terex Finlay J-1160 tracked jaw crusher feeding directly into a Terex Finlay I-110RS tracked impact crusher with detachable sizing screen and recirculation system to demonstrate a typical recycling application.

"Despite the recent poor economic conditions, matched only by some equally poor local weather conditions, this event has allowed us to successfully introduce some key new models and recent product developments to our dealer network and end users", says Nigel Irvine.

"Having aggressively expanded our international dealer network, this was our largest dealer event to date. With many new dealers in attendance, it has been the perfect opportunity to

show-case our most popular products, in real world working conditions. The end user feedback seminars were very worthwhile and provided our R&D team with some food for thought and exceptional ideas for future product developments".

Terex Finlay's four new models

The Terex Finlay J-1480 tracked jaw crusher incorporates the Terex Jaques single toggle jaw crusher, which boasts a throughput capacity up to 600m³ tph depending on application and material. The machine is available with direct drive to offer improved fuel efficiency and greater power utilisation or hydrostatic drive which offers reversible operation for clearing blockages and demolition applications. The large 10 m³ hopper has hydraulically folding sides and hydraulic wedge clamp system providing a safer working environment and faster machine set up time. The machine features a vibrating pan feeder linked to an aggressive independently driven pre-screen which provides optimum separation of dirt, fines and difficult materials.

The Terex Finlay C-1550 incorporates the Terex 1300 cone crusher with direct drive. The machine features pre-screen system with a single deck 8' x 5' screen and 1200 mm belt to remove fines improving cone capacity, product flexibility and liner wear reduction. The pre-screen can produce a roadbase product from the side conveyor which can be fitted on either side. The cone features variable speed, tramp relief system and 'on the fly' closed side setting. The large hopper/feeder has an automatic metal detection and purge system to protect the cone and reduce downtime by removing metal contaminants from feed belt at the touch of a button.

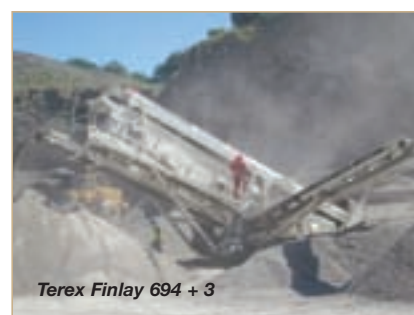
The Terex Finlay 694+ tracked screen features a large 20' x 5' triple deck screen box giving a large screening area of 27.9 m² to provide efficient screening and high capacity. The screenbox features quick wedge tensioning, access holes and bottom deck hydraulic tensioning system to reduce time required for mesh changes. All four discharge conveyors are adjustable and hydraulically fold for transport. The fourth product 'oversize plus' conveyor has variable tilt and side slew to accurately discharge material for recirculation and stockpiling.



Terex Finlay J-1480



Terex Finlay C-1550



Terex Finlay 694 + 3



Terex Finlay I-130RS

The Terex Finlay I-130RS tracked impact crusher incorporates a Terex Cedarapids 1313 impact chamber with hydrostatic drive and advanced electronic control system. The machine features an innovative quick detach 12' x 5' double deck screen for sizing and recirculating oversize material back to the crushing chamber. The screen can be quickly removed for applications that do not require resizing or recirculation. The large hopper features a variable speed pan feeder and independent pre-screen with constant RPM for optimum separation even if feeder speed is reduced.



www.hub-4.com/directory/305



Airtec resolve dust issues at Tarmac Congleton

St Helens based dust and fume extraction specialists Airtec Filtration Ltd came to the aid of a leading heavy building material manufacturer Tarmac, by offering a refurbished solution to their dust control problems.

Tarmac have over 130 quarries and over 70 concrete plants operating all around the world and on average use nearly 4 tonnes of aggregate per person every year. They are committed to recycling as much concrete and waste as possible, and have even planted over 111,500 trees in the past 5 years. At their Congleton site dust created during their crushing, conveying and the bagging process meant dust was becoming a real issue. Driven by the need to protect staff and personnel from the dust generated, Tarmac sought a solution that would be effective in controlling exposure, embrace their need to recycle recovered dust and also in a difficult economic climate come in within a tight budget.

Airtec provided Tarmac with a fully refurbished compressed air cleaning Donaldson filter, capable of extracting 8,000m³/hr of dust laden air from the bag packing process. The filter was fitted with a pneumatic conveyance system, which fed all collected dust back into a storage silo meaning all dust would be recycled back into the process.

Within hours of the refurbished reverse jet filter being installed Tarmac noticed a dramatic improvement in the air quality within the bag packing plant and the conveyance system meant that all the dust collected could be re-used. All in all Airtec had provided a solution that met with all Tarmac's initial requirements. Dust was reduced to a minimum - protecting personnel; dust was conveyed back into the process - fulfilling their recycling agenda; the use of refurbished equipment - kept costs to a minimum and within budget.



www.hub-4.com/directory/42

First mainland UK Sotres Sand Treatment Unit supplied to Potgate Quarry

Lightwater Quarries, a company wholly owned by the Staveley family operates two quarries, one of which is Potgate Quarry near Ripon. Well established, the quarry supplies a hard magnesian limestone for road construction and other applications throughout Yorkshire.

With a busy operation of this nature it is of prime importance that the processing plant operates efficiently; however it had become apparent that the existing screw/bucket dewatering unit was losing fine sand to the settling lagoons. It was therefore decided after consultation with Finedoor that it would be beneficial to replace the inefficient unit with a modern hydro cyclone sand treatment unit.



With a requirement that the new unit must recover 100% passing 150 micron Finedoor guaranteed the performance and offered a suitable unit which was available for immediate delivery from their sand processing and water treatment partner Sotres SA in France.

Installed during the Christmas/ New Year holiday period initial grading taken after a few days after commissioning reflected excellent results, with tests on the waste water indicating nothing passing 75 micron was entering the lagoons.

Capable of producing up to 80 tph the Sotres unit supplied is a compact sand plant featuring a galvanised dewatering screen unit, which is supplying a single grade of sand. Finedoor also supplied a Warman pump specifically supplied 'one size up' to minimise wear.

Finedoor engineers commissioned the sand plant and all the civils were provided by Lightwater engineers.

Kevin Parker, general manager, commented: *"It was clear to me that Sotres have plenty of experience in sand plant design and their confidence in their product made the purchasing decision easy. Finedoor gave good support and ensured the plant would slot into place in the short shutdown period and despite the bitter weather everything went to plan."*

Sotres SA is a partner of Finedoor and this is the first sand treatment unit to be installed in mainland UK.



www.hub-4.com/directory/914

Foam suppresses dust at Torr Works

Ross Matthews talks to Andy Shakeshaft, quarry operations manager at Aggregate Industries' Torr Works, about the installation of a foam-based dust suppression system.

When Andy Shakeshaft became quarry operations manager at Aggregate Industries' Torr Works last year he found there was a long-standing dust control problem in terms of emissions from the processing plant at the 'super quarry' located on east Mendip. The only system on the plant was a normal water spray, which in addition to requiring maintenance was not easily controllable or particularly effective.

"We looked at what we could do with a small capital investment and decided we could gain a significant improvement, although not a total solution, that would be an improvement on the water system," says Andy Shakeshaft, quarry operations manager at Aggregate Industries' Torr Works. "Having had some experience with Best Chem previously I engaged them to come in and carry out an analysis on Torr Works."

After extensive consultation, in September last year Best Chem installed a foam system that covers Torr Works' entire processing plant - from the primary stockpile through to the two tertiary crushers. Utilising what Best Chem describes as 'superior foam generating technology', the system features a central pump set serving several multiple remote locations.

The system saw the installation of seven application points for discharge to the surge pile; two for the secondary hammer mills and four for the tertiary cones and Torr Works has the ability to turn on and off each individual application point. The system is completely automated and is easily controlled and monitored via a computer in the Works' offices.

The foam system offered Torr Works an optimised investment by giving a system that maximised dust suppression with the minimum equipment, power and capital requirement, as well as low maintenance.



"It has made a significant improvement within the process buildings," says Andy. "Previously when you entered those buildings you could barely see from one end of the room to the other. Now you notice a very distinct difference. You still need to wear a dust mask within the building when the plant's running but it has improved significantly - both within the buildings and in terms of whatever gets airborne from the surge pile, particularly if the surge pile is low and material is dropping from a high conveyor point. Previously it would bellow out of the sides in terms of dust creation. With the foam on it emits a lot less."

A baghouse filtration system, as alternative solution, may have provided a more complete suppression of the dust but it would also have required considerably greater investment.

Andy explains: *"The baghouse filter system requires a lot more construction and maintenance and while being more effective for a total solution they are not always easy to put on single conveyors and transfer points, they tend to be built in above crushers and screening points. The foam system, however, has made a big difference for us."*



Terex unveils new articulated trucks



The TA400

The newly launched rock solid Terex TA300 and TA400 articulated trucks benefit from a host of carefully developed design-features that help increase productivity and enhance operator comfort, even in the toughest of working conditions.

Both haulers benefit from oil-cooled multiple-disc brakes on each axle, which provide extended brake component life, reduce service intervals and operating costs, and improve overall braking performance compared to traditional dry-disc brake systems that are standard on other leading manufacturers' trucks. Service brake life is further increased by the use of a Jacobs compression-release engine brake for retardation. A hydraulic transmission retarder is available as an option.

Terex has developed the cab of the TA300 and TA400 to make operators feel more comfortable and, as a result, help increase productivity levels. The new ergonomic cab has reduced interior noise levels, an improved steering wheel, more effective air conditioning, a high-quality sound system and new mirrors. Interior aesthetics have also been updated to anthracite grey with a matte finish to reduce glare and improve durability.

The TA300 (which replaces the TA30 model) is the only hauler in the 30-tonne market that comes with fully independent front suspension (IFS) as standard. The IFS system provides a smooth ride when travelling over severe terrain, which makes it easier to handle and helps increase productivity. In addition to achieving quicker haul cycles, shock loads and vibrations are also lessened - increasing component life and enhancing operator comfort to help reduce driver fatigue.

Owners of the TA300 also benefit from the highest power and torque (287 kW, 1775 Nm) in the 30-tonne articulated truck class. This performance, coupled with the 100 per cent differential locking action, enables the TA300 to tackle the most challenging grades and extreme site conditions with ease. The manoeuvrability and tractive effort means the truck is suited to such diverse applications as quarrying, mining, construction and road maintenance.

The 17.5 m³ capacity body - among the largest in the 30-tonne class - can be tailored to maximise production and durability through options such as liner plates, side extensions and a tailgate. With a maximum payload of 28 tonnes and a body dump cycle time of 20 seconds, customers will benefit from low cost-per-tonne per hour when moving material.

The larger TA400 articulated truck (which replaces the TA40) occupies the 40-tonne truck market. The combination of high torque, high horsepower, high capacity and the highest top speed in its class place the TA400 among the class leaders in productivity. A four-bar trailing arm suspension system allows operators to travel faster and more comfortably on difficult terrain.

At home on sites ranging from sand and gravel quarries to coal mines and road construction projects, the TA400 boasts a payload capacity of 38 tonnes and a heaped capacity of 23.3 m³. It has a maximum torque of 1,350 Nm at 2,100 rpm, and with six forward gears and one reverse in addition to a two-speed drop box, the TA400 can travel up to 60 km/h. The TA400 truck offers all of the standard features and benefits that customers have come to expect from the Terex brand. Standard features include its Tier 3-compliant, fuel-efficient 336 kW diesel engine, maximum rim-pull and gradeability for negotiating inclines, as well as a large body capacity with low body weight to maximise load size and retention.

George McNeil, product manager for Terex articulated trucks said: "Given the difficult year the construction industry has just had, the launch of our new trucks is a positive and encouraging development for both Terex and the industry as a whole.

"The TA300 is a force to be reckoned with in the 30-tonne articulated truck market as it's the only truck that is fitted with independent front suspension as standard, has great fuel economy and the highest torque and power in its class. In both the TA300 and the TA400, everything has been carefully considered to enhance operator comfort and help increase owners' productivity levels, from the new ergonomic cab to the oil-cooled disc brakes - it's all designed with our customers' needs in mind."

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The TA300

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

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- ▶ Maximum utilisation of three 20' x 5' (6.1m x 1.525m) decks provide ultra-efficient screening capacities even at small aggregate sizes.
- ▶ The fourth product (oversize plus) conveyor provides variable tilt and slide slew capability to accurately discharge materials for recirculation to crushers or for stockpiling.

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Magnetic therapy

Paul Fears, managing director, Eriez Magnetics Europe, examines how to overcome the difficulties of dry magnetic separation

The magnetic treatment of industrial minerals is conducted in both wet and dry processes. The decision to process wet or dry is determined by one of two factors: how the end customer wishes to receive the material or the process route needed to achieve the end customer specification. In many cases, non-metallic mineral processors prefer to process in a dry state but the present technology only enables purification when as a slurry. This especially applies when dealing with material with finer particle sizes such as kaolin or calcium carbonate. This article discusses three magnetic separation techniques presently used to treat dry non-metallic minerals, specifically looking at fine particle processing.

The Rare Earth Roll Separator is an industry standard for high intensity dry magnetic separation especially when processing feldspar and silica sand. There have been many developments in magnetic material and design that enable higher capacities and improved levels of separation.

A Rare Earth Magnetic Drum, model RRS, produces high surface fields similar to those of the Rare Earth Roll Separators and has many additional benefits including installation, maintenance and spares. Setting key operating parameters enables the treatment of fine materials with a limited loss of product to the magnetic fraction. The RRS has been used to process a wide range of industrial minerals

For specific fine powder applications, especially with high value materials, the Dry Vibratory Magnetic Filter (DVMF) is the only option. Based on the High Intensity Magnetic Filter, which is used extensively in the ceramic and mineral industries to process slurries, the DVMF is designed to capture magnetic particles on a batch process basis. Successful applications include talc and silica flour purification.

Processing in a wet slurry commonly enables higher intensity magnetic fields to be applied with better separation results, as achieved using High Intensity Magnetic Filters and Superconducting POWERFLUXs. Nevertheless, many non-metallic mineral processors want to separate magnetic minerals and free iron when their product is in a dry state. This could be for a number of reasons including:

- the local availability of water
- the cost of drying
- the demands of the end customer
- ever changing environmental issues.

For dry processing, there are essentially four designs of magnetic separator proposed by Eriez, which are a Rare Earth (RE) Roll Separator, a Magnetic Drum Separator, a Dynamic Drum Separator (DDS) or a Dry Vibrating Magnetic Filter (DVMF). Each has specific advantages and disadvantages and the most suitable solution is commonly determined following testing at an Eriez laboratory.

The design of magnetic separator very much depends upon the separation objective and the material characteristics. As shown on the chart (Figure 1), a material that is generally plus 80 micron and where paramagnetic and weakly magnetic minerals need to be separated will probably be well suited for processing over a Rare Earth Roll Separator. A much finer material, above 20 microns would be processed through a Dry Vibrating Magnetic Filter. This chart is only a guide and testing is always recommended to confirm what level of separation is possible.

Rare Earth Roll Separator

One of the most common high intensity magnetic separators used to process dry materials is the Rare Earth Roll Separator. This consists of a head roll constructed with strong Rare Earth permanent magnets and a belt to convey the material. This then operates as a simple conveyor.

Material is fed from a feed conveyor belt onto a Vibratory Feeder before being cascaded down a chute and into the magnetic field. Magnetically susceptible particles are attracted to the field, resulting in a change in their trajectory. This enables a separation. Non-magnetic particles are unaffected and cascade normally. This self-cleaning system is a simple and effective method of magnetic separation.

Magnetically, the aim with a Rare Earth Roll Separator is to produce high peaks of concentrated field to which magnetically susceptible particles are drawn. A typical Rare Earth Roll is made up of magnetic rings or arcs interspaced with steel pole pieces. The magnetic flux is concentrated into the pole piece by pushing magnets with different polarities together. This produces peak fields of up to 21,000 gauss.

The belt is approximately 0.15 mm thick and this reduces the field to around 12,500 gauss. Therefore, it is essential to present a thin layer of material. It is important to know that if lower grade, cheaper Rare Earth magnets are used, the magnetic field will deteriorate with time.



A Drum

Rare Earth Rolls can be built with magnetic widths of up to 1.5 m.

In Europe, there are three different designs of Rare Earth Roll Separator. The difference is simply the diameter of the head magnetic roll. The three models are the:

- RE300 (300mm dia)
- RE100 (100mm dia)
- RE75 (76mm dia)



The front end of a DDS



Non-metallic powder

As shown with these results on a silica sand, the RE300 Rare Earth Roll enables over 40% extra capacity per metre than the 75 mm diameter model. For a mineral processor, this means less units are required for a plant, resulting in less maintenance and less spares. Most of the Rare Earth Rolls presently sold by Eriez in Europe are 300 mm in diameter.

Magnetic Drums

The Magnetic Drum works on a very simple principle compared to the Rare Earth Roll Separator, using high intensity magnetic fields to defect magnetically susceptible particles and enable a separation. The main difference is that the Magnetic Drum does not have a belt and so requires less maintenance. In fact, once installed, the Magnetic Drum requires very little attention at all.

A Magnetic Drum has a magnetic arc fixed inside a rotating shell. Material is fed, usually via a Vibratory Feeder, onto the drum shell. Magnetically susceptible particles are attracted and separated.

There are several models of Magnetic Drum to suit many different applications. Each model has a specific magnetic circuit design. For mineral processing, the best performing Magnetic Drums have been found to be the RR, RAS and RRS. The focus here is on the RRS as this generates the highest magnetic field and, in certain circumstances, gives results comparable to the Rare Earth Roll Separator. The RRS has a unique design of drum shell that enhances the magnetic field on the surface. The peak surface field is around 11,500 gauss, which is very similar to that of a Rare Earth Roll Separator.

Looking at a case history where the objective was achieving maximum Fe₂O₃ removal at 330 kg/hr with a maximum product loss of 1%, milled zirconium powder processed on the Rare Earth Roll Separator resulted in a high product loss, mainly due to electrostatic attraction on the belt. Eriez laboratory technicians then ran the material over the RRS Drum. After extensive test work, two key issues arose:

- the electromagnetic Vibratory Feeder, critical to the separation, was having difficulty feeding an even layer of the fine material onto the drum surface
- there was still too much product loss with the normal rotation speed of the Drum.

The initial results, with the standard Vibratory Feeder and Drum speed, showed a 47% reduction in magnetics. However, once the Vibratory Feeder was redesigned with an 'Airflow' tray and the RRS Drum was rotated at around 100 m/sec, the reduction in magnetics increased to 75% with only 0.6% of the feed ending up in the separated fraction. The 'Airflow' tray aerates the material, improving the flow characteristics and ensuring an even feed of material onto the drum.

One test result that proved surprising was on a silica sand from North Africa.

Silica Sand would typically be purified using a multi-stage Rare Earth Roll Separator and the 84ppm feed had been reduced to 54 ppm with the 300 mm diameter model.

However, tests on a three-pass RRS Drum system reduced the iron content to 44 ppm.

The triple-pass RRS Drum system is operating well at site.

Dynamic Drum Separator (DDS)

An intriguing development for finer powder processing came in the form of the Dynamic Drum Separator or DDS. Even though only suitable for the removal of free iron, the DDS has proven very successful. The most common applications have come from hard mineral processing, such as refractory minerals including alumina, corundum and silicon carbide.

With a DDS, there is a conveyor with a hollow head pulley. Inside the head pulley is a strong magnetic rotor that rotates at high speeds. Material is conveyed into the magnetic field with free iron attracted to the rotating magnetic field and deposited away from the clean product under the belt. The magic of the separation occurs immediately when the material enters the zone. Examining a close-up of the separation zone illustrates why the DDS is so well suited to fine particle separation. As the magnetic particles enter the rotating field, the free iron particle spins, colliding with neighbouring particles. This collision helps liberates them from the non-magnetic powder, enabling a clean separation of iron.

The following case history looks at a silicon carbide sample with a free iron contents of 2.7% where the objective was to reduce to <0.1% free iron at 500kg/hr with a minimum product loss. Previous tests conducted with Rare Earth Roll Separators and Magnetic Drums had separated the magnetics, but with an unacceptable high product loss. Minimising this loss was crucial to the economics of the project. Tests in the laboratory and, ultimately, production results at site showed that by passing a material with a feed of 20,000 ppm magnetics over the DDS it was possible to reduce the magnetics content to below 190 ppm. This equates to a 99% magnetics removal. Additionally, the amount of feed discharged into the magnetics was only 5%, constituting an acceptable loss of good product. This was achieved with a feedrate of just under 3 tph per metre.

Dry Vibrating Magnetic Filter (DVMF)

For the finest powder processing of industrial minerals such as talc, the Dry Vibrating Magnetic Filter is employed. This is an electromagnet with a background field of up to 5000 gauss.

The electromagnetic coil of the DVMF generates a magnetic field, focused in on its centre. A magnetic matrix is positioned in this central core. The DVMF operates on a batch processing basis. Product is fed in from the top and magnetics captured on the matrix. The magnet is then turned off and the matrix vibrated, releasing the captured magnetics.

One successful installation is processing talc in South America. The separation objectives were similar to most other projects, requiring maximum iron removal with a minimum loss of product. Handling talc on traditional magnetic separators such as the RE Roll or Magnetic Drum has previously proven difficult. The results exactly met the customer's objectives. The Fe₂O₃ content of a product up to 3.5% iron could be reduced to less than 0.5%. Also, and equally important, the talc recovery was between 96 and 98%.

On a project in the UK, the objective was to reduce the iron content of a magnesite alumina spinel. Once again, the material was very fine and unsuitable for other types of magnetic separator. Tests had shown that the product loss and separation performance were simply not good enough. In this particular test, a 50 kg feed with 14 ppm magnetics was processed, removing over 100 g of magnetics with some entrapped product. However, when fired, only two iron spots were found in the end product. This met all the separation objectives and the customer ordered a production unit.

In conclusion, selecting the best magnetic separator for specific separation objectives is best achieved by conducting controlled tests in an Eriez laboratory. Advice can then be given on what process would enable the best separation and, ultimately, give process guarantees.



Figure 1. This chart is only a guide and testing is always recommended to confirm what level of separation is possible.

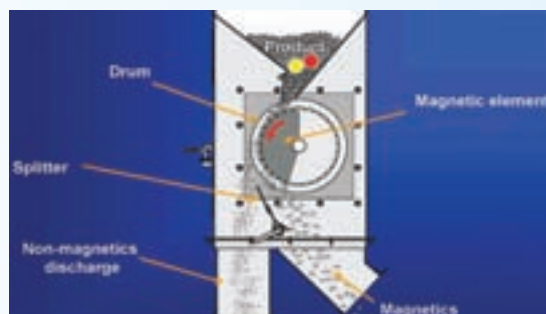
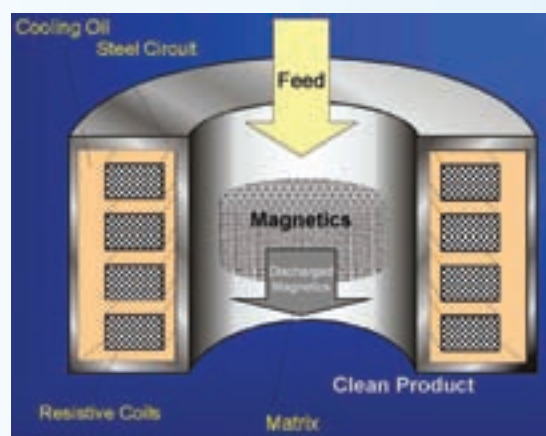


Diagram of a Magnetic Drum



A Dry Vibrating Magnetic Filter (DVMF)

Mastermag takes on competitor Eddy Current repairs



Damaged Rotor



Rotor Damages And Repairs 014

With Eddy Current Separators becoming a 'must have' in the recycling industry, many companies are purchasing new units for their plants to maximise their profits. However, at the moment it is understandably very difficult for companies to invest in new units and many are now choosing to refurbish and repair their existing Eddy Currents to ensure that the highest levels of separation are achieved, for the lowest possible cost.

Refurbishing Eddy Current Separators can be a cost effective alternative to purchasing new units. This is because Eddy Currents usually only become inoperable from damage to the magnetic rotor. Depending on the type and the extent of a rotors' damage however, repairs can cost as little as 4% of a brand new unit but will ensure that the same level of performance is still achieved.

Master Magnets repairs and refurbishes rotors that originate from many different manufacturers. In fact, the majority of the rotors that Master Magnets receives for repairs, were designed and manufactured by other magnetic separation equipment suppliers from around the world.

The Master Magnets range of Eddy Current Separators is manufactured using a concentric rotor design, however this design represents only one of two designs that are currently used to manufacture the Eddy Current Separator units of today. The other type of rotor design that companies utilise in the manufacture of their ECS units is known as the eccentric rotor design.

From many years of research into the concentric and eccentric rotor designs and many practical experiments, the Mastermag engineers have obtained a vast amount of experience and the high level of expertise, which is required to carry out effective repairs on all types of ECS rotors.

Recently Master Magnets was contacted by one of the UK's major recycling companies that wanted to refurbish one of its ECS rotors. Again, the rotor was not originally manufactured by Master Magnets and was not of the concentric design. The company however, chose not to send their unit to the OEM but instead wanted Master Magnets to carry out the rotor repair.

The rotor has now been returned to the customer after the successful completion of the repairs and the unit has been in full operation for around two months.

The recycling company's plant manager commented:

"The Eddy Current rotor that we sent in to Master Magnets wasn't in great shape. The quality of Mastermags' workmanship though is second to none and when we received the rotor back, it was as good as new."



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FEEDING

New stabilisation plant for O'Keefe Utilities

BG Europa (UK) recently supplied a bespoke version of its relocatable model KS55 Stabilisation Plant to O'Keefe Utilities, providing a compact high production unit to operate within the London area. The brief was to design a unit that could treat utility arisings that had previously been sent to land fill sites. The unit also needed to be suitable for relocation to various other job sites without the expenditure of creating expensive mass concrete foundations. Other important considerations for location of the KS55 within city job sites demanded that the operating process had to be quiet and clean in operation.

Environmental awareness has always been at the forefront of the philosophy driven by the O'Keefe group of companies, this philosophy subsequently leading to the development of a process to recycle utility arisings.

The process O'Keefe Utilities has developed is called SMARTR (Stabilising Materials from Arisings - Re-grading & Treating for Re-use).

This process provides a material to replace a traditional MOT Type 1, which is designed to achieve the performance of a Structural Material for Reinstatement (SMR), as defined under the new Roads and Street Works Act 1991 in the second edition of the Street Works Code of Practice: Specification for the Reinstatement of Openings in Highway. This alternative reinstatement material is known by its trade name; PAVIMENTUM (PV1).

Two trailer transported units

The solution provided by BG Europa comprises two trailer transported units both suitable for installation by crane on compacted level ground. The first single chassis contains the processing unit, which makes no compromise on versatility and capacity, offering choices of operating mode and a processing capacity of up to 250 tph.

Gradation is achieved through an integral Finedoor Twin Deck Finger Screen. This screen operates at a shallow angle and has a design capacity of up to 150 tph. The 10 mm thick rigid side plates with heavy duty bolted in decks ensure durability with the coil spring mountings isolating vibration from the KS55 chassis. The Finedoor screen is designed for vehicle mounting; featuring a narrow frame, which fits comfortably within the normal transport criteria.

Graded material is then fed to the BG Europa KS55 mixer by a small charging conveyor plus the screen unit can be slid away from the belt feeder

discharge and replaced by a feed chute directly to the mixer charging point. This allows the production capacity of the mixing unit to be increased to around 250 tph whilst reducing power requirements

The ubiquitous BG Europa KS55 processor produces a high quality homogenous mix in many varied applications. In this guise the unit is perfectly at home incorporating one or two fine materials within the marginal aggregate and soil mix.

To enhance operation on generator power a powder coupling on the 55 kW electric motor reduces starting requirements to approximately three times full load current which allows a smaller capacity generator set to be utilised. The coupling and belt drive also provide a degree of shock protection to the drive components when operating under arduous conditions.

The second unit is a trailer transported relocatable 60 m³ total capacity split fines silo with two integral 809 loss-in-weight, fines dosing systems.

The silo support structure features outrigger legs and ties the silo to the mixing unit. This allows the large capacity silo to be installed on compact level ground with a 200 kN/m² bearing capacity, without the need for a concrete foundation.

Two BG Europa model 809 fines feeder systems are each mounted from three load cells within the silo support structure to provide accuracy and surety of fines dosing control. Two fines screws then convey the fine materials from the 809 weigh pods to the KS55 mixer hood.

Production

Since operation commenced in November last year, the plant has generated over 15,000 tonnes of PV1, which is manufactured in accordance with a British Standard for the production of a Hydraulically Bound Material.

The relocatable model KS55 Stabilisation Plant has been a great success; Lee Horsley, director, of O'Keefe Utilities comments: "The ability to recycle excavated arisings at a hub facility has met our client's sustainability criteria, however surety of product was the essential ingredient in the success of our Pavimentum PV1 product. The bespoke plant provided by BG Europa has allowed for a consistent, well graded product with the ability to subtly amend the mix proportions to achieve the desired criteria for the introduction of PV1 into highways reinstatements."



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Metal separators for free-falling bulk

Thirty years ago the product portfolio of S+S Separation and Sorting Technology, among others, included inductive ring sensors that were used for the eject monitoring of stamped metal parts. At the very same time the plastics-processing industry had great need for metal separation systems to protect the machines in the process of in-house plastics waste recycling. The ring sensors were adapted to the respective requirements, and the result was the first metal separator: the Rapid 1000. The Rapid product name was chosen because a fast-acting reject slide was needed for separating metal-contaminated material. The first Rapids were designed as

compact systems for relatively simple applications. However, the requirements that metal separators have to meet have constantly become more stringent, and the Rapid series thus has been subject to continuous further development. Today's state-of-the-art metal separators feature automatic or preset product parameters, parts in contact with the product are made of stainless steel, and rotatable reject units allow easy installation.

The new, compact Rapid 8000 metal separator is designed for high throughput capacities. It can be universally used for inspecting a wide range of products from powder and fibrous, through to granular, and features a dust-proof reject outlet.

S+S also provides the Rapid Dual metal separator. This metal separator is used for the inspection of badly pourable bulk materials such as foil chips, wood pellets and of large mass flows in free-fall conveyor pipes with a fall height of 700 mm. Metal contaminations are separated by means of a double flap.



Rapid 8000 metal separator with dust-proof reject outlet



Rapid Dual metal separator for the inspection of badly pourable bulk materials and large mass flows in free-fall conveyor pipes. (Photo S+S)



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Integrated weighing at CEMEX Tilbury

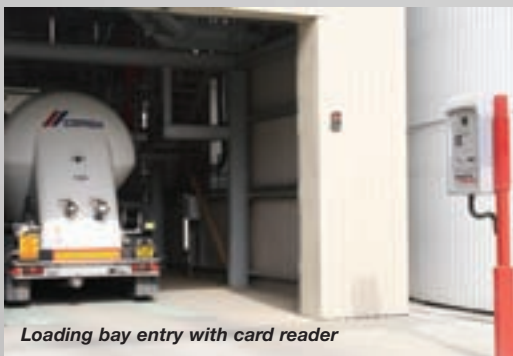
Opened in September 2009, the new cement grinding and blending plant at the Port of Tilbury in Essex illustrates a strong commitment to the UK and sustainable construction by CEMEX. The £49 million investment in the new 1.2 million tonne plant by Global building materials company CEMEX is the culmination of two years construction and is the largest plant to be built in the UK cement industry for five years, increasing CEMEX UK's cement capacity by 20%.

The new low carbon, sustainable plant, which is the only cement plant in the South East of England, is situated at Tilbury in the Thames Gateway.

The new plant will deliver products based on cement clinker, which is ground to a powder and blended with by-products to produce cements for use in buildings and infrastructure projects. Furthermore, the plant capabilities enable a reduction in the amount of clinker utilized in the process reducing the overall manufacturing impact whilst increasing its sustainability.

Boasting the first vertical mill in the country, 20-40% less energy is used compared to traditional mills which combined with the blended cement capabilities, shipping, barging and rail loading facilities ensure that the carbon footprint per tonne of finished product is further reduced.

As part of the new plant infrastructure Precia-Molen was chosen to design and build a system based around the GeneSYS and GSM software. With more numerous vehicle and multiple train movements every day carrying materials into and out of the site, CEMEX needed an integrated weighing, automated cement loading and traffic management system to meet the diverse needs of the new Tilbury facility.



Loading bay entry with card reader



Loading at no 4 bay



A customised solution

CEMEX required a flexible and on-site weighing and load management system. The system also needed to provide fast and accurate management reporting to monitor site performance and efficiency. Precia-Molen designed and built a bespoke solution driven by the power of GeneSYS.

Utilising a weighbridge management system developed in-house by Precia-Molen, the system has integrated the operation of six weighbridges and 13 driver consoles including two large electronic information boards, which enable fully automated dispatch operations across the site.

A special fast track weighbridge facility enables even faster processing of CEMEX's regular fleet of vehicles, which can arrive 24 hours a day and pass simply through the entry and exit weighbridge station.

A seamless operation

To accomplish seamless operation from ordering through to invoicing, the GeneSYS system is fully integrated with CEMEX's own sales

order management system. When an order is placed, it is entered into the sales system and matched against quotes set up in SAP; GeneSYS then imports the order ready for collection or dispatch.

Preferred road vehicles visiting the site are all issued with RFID cards for identification. On arrival the vehicle drives onto the weighbridge and the driver presents the RFID card to the dispatch office, GeneSYS then weighs the vehicle and, if the tare weight is within expected tolerance, directs the vehicle to the correct silo. Data for preferred vehicles is kept permanently by the system enabling faster verification and entry to the site.

If the vehicle is new to the site, the driver reports to the dispatch office, where the registration details and order number are entered into GeneSYS. The vehicle is then weighed, the driver is issued a single use RFID card and directed to the correct loading area.

Passing under two large electronic information boards the driver is directed to one of the numerous driver-operated loading points, which feature automated loading. If directed to the CEM 2 Silo (Blended Cement) the driver stops at the first console, inserts his card and is directed either to bay four or five.



2 exit weighbridges with card readers

Inbound materials are delivered to the site by road. Again as with the sales process, a vehicle is issued with an RFID card. The GeneSYS system compares the load details with the purchase order on SAP to confirm acceptance and then directs the driver to one of either two unloading points for clinker and gypsum. Both of these locations feature a ramped approach and console reader and incorporate a barrier to stop incorrect loading.



Driving onto the 18 metre long pit-mounted Precia-Molen weighbridge the vehicle is then validated by photo sensors to ensure it is in the correct position on the weighbridge.

The driver then leaves his vehicle and proceeds up the stairs to the loading bay platform and presents his card into the driver console, GenSYS validates that he is in the correct bay and signals via the integrated PLC that the loading operation can start which allows him to couple the loading bellows to the truck. On command the nominated load of material is delivered into the truck, with the driver receiving a ticket on completion.

If directed to the CEM 1 Silo (ordinary cement) the driver then proceeds to bay two and goes through an identical procedure. If directed to bay three (fly ash) again an identical procedure is completed.

After loading, all vehicles return to the exit weighbridge or fast track exit lane to receive their dispatch documentation. The RFID card is inserted into the driver console, allowing the driver to confirm the final weight and receive the relevant documentation with the RFID card being retained.



Loading bay platform with card reader and loading bellows to the right

A Single System

Precia-Molen has provided a powerful and flexible system, which has met or surpassed the needs of this new low carbon sustainable operation.

The new Tilbury plant now has a single system that encompasses the cement operations, enabling fast and efficient throughput for high volumes of road traffic.

The GeneSYS based solution has created a stable and expandable platform offering efficient management of the entire site and providing important performance and management information.

Gavin Cowen, plant director, comments: *"The automated system allows the plant to function smoothly and hassle free, now the drivers have been trained the system allows my staff to concentrate on producing and not loading trucks. The installation, commissioning was first class and the user friendly package supplied by Precia-Molen is extremely efficient."*



Jack of All Trades

Independent ready mixed concrete and aggregates supplier Tor Multimix of Glastonbury has taken delivery of a Liebherr L 514 PK Stereo wheeled loading shovel, which is already proving to be a welcome addition to the company's busy operations. According to Tor the machine provides a solution to its varied materials handling needs. From stockpiling to tipper truck loading, batching plant bin feeding to load-and-carry of bagged aggregates, road sweeping and pallet handling, the L 514 is a multi-tasking machine. With its four-wheel hydrostatic drive, articulated rear axle steer, tight turning circle and considerable agility, this productive little loader is perfectly suited to the busy and compact site.

Tor Multimix is based in Thomas Way, Glastonbury, from where it provides an impressive range of quality assured ready mixed concrete, sand and aggregates throughout Somerset for a broad spectrum of customers. Tor Multimix also produces specialist concretes such as waterproof, spraying and heavyweight, fibre and pan-mixed floor screeds, bagged aggregates and Portland cement.

The company owns and operates a fleet of tipper trucks, concrete truckmixers and pumping equipment.

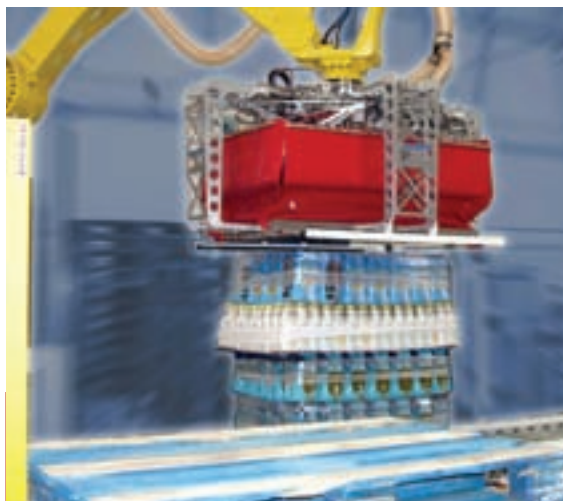
The L 514 PK Stereo is at the smaller end of the 16 model range of Liebherr wheeled loading shovels, weighing in at 8.35 tonnes, with a tipping load of 5,680 kg and a bucket capacity of 1.50 m³. Power is provided by a turbo-charged and water-cooled diesel engine which develops 72 kW with reduced emissions well below the Stage IIIA / Tier 3 standards. The stepless hydrostatic travel drive provides optimum precision and response. The air-conditioned operator's cab is comfortable and functional, with an adjustable steering wheel, attachment joystick integrated into the seat armrest, full instrumentation and a radio.

Tor Multimix has taken its new loader with top specifications and a number of additional features. For the best possible all-round visibility, the machine is fitted with a rear-view camera and in-cab colour monitor. A weigh-load system, additional lights front and rear, acoustic back-up alarm and an amber beacon contribute further to operational safety. The machine is also equipped with a central lubrication system.

The attachments taken with this machine include a 1.50 m³ bucket, a complete Bema 35 road sweeping machine with a water spray system, a fork carrier and pallet forks. The 'P-Kinematic' lift arms are 2400 mm in length including quick-hitch, there are quick-release couplings for attachment hoses and a lever operated safety lock for front-end equipment.



www.hub-4.com/directory/504



Quick palletising/depalletises of all shapes and sizes

The Layer Gripper, available in the UK exclusively from TIA Robotic Tooling Solutions, uses a combination of Unigripper's patented vacuum lift technology, mechanical clamping bars and side skirts to adaptively handle and lift individual customer consignments, irrespective of their constituents' mix of size, shape, weight and fragility, while maintaining a high throughput. Objects such as sealed boxes can readily be lifted by vacuum alone. For more difficult or irregular shapes the side skirts act as baffles, allowing the vacuum grippers to create the vacuum necessary for lift. Where vacuum lifting is impossible, the mechanical clamping bars can handle the load. Alternatively, a combination of vacuum and clamp lifting can be optimised for individual applications.

Both palletising and depalletising operations are possible, as are multi layer loads. Each layer can be different, with, say, cardboard boxes on one level and bottles on another. The layers can be completely or partly full, with gaps between products being permissible. The side skirts can be adjusted to baffle for loads of different heights.

The Layer Gripper provides fast throughput with up to 350 cycles an hour. This performance is aided by servo operated clamping bar height adjustment. The programmable clamping force can be minimised for fragile products or set to any level up to 200 kg per side if more lift is needed. A maximum layer weight of 300 kg is possible. Two pallet sizes are supported: Euro pallet, with a maximum gripping size of 1320 x 1040 mm and US/CHEP pallet handling up to 1420 x 1220 mm.

The Layer Gripper functions as a rigid End of Arm Tool (EOAT) with a mechanical interface and robot adapter provided. It is typically used within robot or gantry mounted palletizing systems. A DeviceNet network communications interface is provided for remote configuration, control and data collection.

Cardboard boxes or trays containing any product with or without plastic shrink wrap can be lifted. This includes bottles, either loose or shrink wrapped. Recycled plastic bottle crates are another load example, and product temperatures from -40°C to +60°C can be handled.



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BELL

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The big shop window

Hillhead 2010 takes place at Tarmac's Hillhead Quarry, in Buxton, 50 km south-east of Manchester, England. The event, which is the big shop window for the quarrying, recycling and heavy construction industries, takes place from 22-24 June 2010 when 430 leading international exhibitors will be presenting all types of plant, equipment, materials and services.

There are three categories of working demonstration area. Quarry face: large wheel loaders and excavators load dumptrucks from a 10,000-tonne rock pile and hydraulic breakers are used for secondary breaking. Rock Processing: a wide variety of screens and crushers are used to process material into single-size or graded products. Recycling: well over 1,000 tonnes of waste material is sorted, crushed, shredded, screened, and stockpiled into reusable aggregate or waste material.



Continuing demand for exhibit space has resulted in a complete sell out of stands in the main Pavilion and plans are now in hand to extend the exhibition area within the Registration Pavilion.

Liebherr-Great Britain continues its allegiance to the Hillhead Show and is exhibiting at its usual location - Stand Number Z6 by the North Face of the quarry.

A complete Mobilmix concrete mixing plant will be erected on the stand. Concrete truckmixers will also be on show, with three of the company's top-selling 7 m³ and 8 m³ capacity hydraulic drum assemblies - all mounted onto the latest Mercedes Axor and Actros chassis.

Liebherr's display at this year's

Hillhead Show also includes a separate area dedicated to the ever-popular Liebherr Shop where scale models, clothing and other promotional items can be viewed, purchased or ordered.

Volvo CE is taking a larger stand at Hillhead 2010 to showcase its construction equipment and road machinery, some of which will be on display for the first time in the UK.

Taking centre stage on the stand will be the AGB6870 paver, the new MW500 milling machine and the latest SD130 soil compaction roller. Also featured will be the DD24 asphalt roller and Volvo Truck products.

Visitors to the stand will also be able to see equipment designed specifically for use in demolition, waste handling, extraction and general construction. Among the products on show will be the EC460C Ultra High Reach excavator, the L120F waste handler, Volvo's flagship EC700C excavator and the A40E articulated hauler.

The benefits of the company's recently launched Eco Operator initiative - a training programme that teaches fuel-efficient and environmentally friendly methods of operating machinery - will feature heavily at this year's exhibition.

Supported by an articulated hauler simulator, visitors will be invited to take up the 'Eco Challenge', with an ultimate prize for the overall winner. Various soft offerings will also be on display including: Volvo Finance; customer support featuring customer-service agreements; and CareTrack telematics. A variety of official Volvo merchandise will also be on sale.

ConveyorTek is showing its new ArmourTek. This single-ply product has been specifically developed for the toughest loading applications.

The robust single straight-warp ply is said to deliver greater resistance to impacts than traditional multi-ply belting and is protected by extra-thick and highly wear-resistant Grade X covers to DIN 22102.

The product can be fitted to traditional conveyors without any modifications, to provide superior impact, wear, tear and rip protection for the most demanding conveyor impact zones.

In particular, ArmourTek belting is proving extremely beneficial in arduous

mobile crushing applications where a high throughput of abrasive material is required using only a short belt with minimal pulley diameters.

Mogensen has announced it will display separating and vibratory feeding machines at Hillhead 2010. The company will show a Type SRS1 1700/1000 1m-wide, open single-deck vibratory screen, which offers a cost-effective option for lighter screening duties such as waste



processing, low tonnage applications and fine separations; and a Type C1544 1.5m-wide enclosed, four-deck screener for high-accuracy, multiple separations. Both of these machines are fitted with Invicta rotary electric vibrators.

The third machine displayed by Mogensen will be a Type TRH 1360 2570 vibratory feeder powered by an Invicta hydraulic vibrator. This machine is designed for use in both mobile and static plant without electrical power supplies.

Davis Derby will be exhibiting its Stedfast range of conveyor protection products are well established within the materials handling industry and for Hillhead 2010, will be launching our new Category 4 compliant signalling systems.

Among other exhibitors at the show are Bell Equipment UK, Benninghoven, Best Chem, Case UK, Crusher Manganese Steels, Doosan Engineering, Haith, JCB, Keestack, McCloskey Engineering, Metso, Miller UK, the MPA, Odour & Dust Solutions, Powerscreen, Rapid International, Rulmea, Sandvik, Skako Comessa, Terex Finlay, Weightron Bilanciai and Wright Rain. Full details are available on the website: www.hillhead.com.

The following is a selection of some of the exhibitors at Hillhead 2010. More companies will be featured on the HUB-4 website during the month of May.



Liebherr at Hillhead 2010

Liebherr-Great Britain Limited continues its allegiance to the Hillhead Show and is exhibiting at its usual location - Stand Number Z6 by the North Face of the quarry.

A complete Mobilmix concrete mixing plant will be erected on the stand, which is indicative of the continued success that Liebherr enjoys worldwide with these innovative and versatile modular plants. Concrete truckmixers will also be on show, with three of the company's top-selling 7m³ and 8m³ capacity hydraulic drum assemblies - all mounted onto the latest Mercedes Axor and Actros chassis.

As always, Liebherr's display at this year's Hillhead Show also includes a separate area dedicated to the ever-popular Liebherr Shop where scale models, clothing and other promotional items can be viewed, purchased or ordered.

The Mobilmix 2.25 Mobile Concrete Mixing Plant

The Mobilmix 2.25 is a mobile horizontal plant which, through Liebherr's unique design, has high outputs, features and capabilities which are equal to the production performance normally found on static plants. Of robust modular construction and capable of being transported on only a few vehicles, the Mobilmix 2.25 has easily assembled components for fast, safe erecting and dismantling. With all modules fully integrated - and the entire plant with aggregate hoppers and cement silos on their own steel foundations - the Mobilmix 2.25 can be installed quickly with minimum ground preparation and can be ready to batch within a few days of delivery to site.

The heart of the plant is the Liebherr twin-shaft mixer with production capacities of up to 100m³ "set" concrete per hour. Liebherr's own well-proven Litronic MPS II microprocessor control, installed in its own integrated module, regulates and monitors the plant's operation - moisture and temperature measuring devices are included, together with an admixture weigher.

The whole plant, with mixer and weigher platforms, is designed and built to provide ample space for routine cleaning and maintenance procedures.

The configuration chosen for the Hillhead show features four aggregate/sand hoppers, two 100 tonnes capacity cement silos and a standard 2.25m³ twin shaft mixing section with admixture dosing and pumping facility.

HTM Concrete Truckmixers

As usual, Liebherr is displaying its popular and successful hydraulic truckmixers. This year, three models are on show - two 8 cubic metres capacity HTM 804P and one 7 cubic metres capacity HTM 704P mixer drum assemblies. The chosen host vehicles for the Liebherr mixers this year are all from Mercedes, with the two HTM 804P drums mounted on to an Axor 32.36K 8x4 and an Actros 32.36K 8x4; the smaller capacity HTM 704P is mounted on to an Axor 26.33B 6x4 chassis. All three mixer drums have been factory finished to the highest automotive quality at the Liebherr-Mischtechnik line-dedicated factory in

Bad Schussenried, southern Germany.

The Liebherr HTM series features a drum constructed from special steel with wear protection on the mixer spiral blades. For the HTM 804P, the geometric drum volume is 14.29m³ and the capacity in set concrete is 8m³; water volume is 9.10m³. For the smaller HTM 704P, the geometric drum volume is 12.34m³, the capacity in set concrete is 7m³ and water volume is 7.70m³.

An important factor in extending the working life of the mixer drum and the host chassis is the Liebherr developed high-quality steel frame and U-clamp fixing method. Drum support pedestals are secured to the subframe by stirrup bolts that accommodate flexing. These are fitted close to the frame to avoid stress transference and to distribute loads uniformly. The design, coupled with the fixing arrangement, enables the mixer sub-frame to be rigidly attached at regular intervals over the entire length of the frame. This forms a composite strength while still allowing the body to flex as necessary to avoid stress damage or misalignment occurring within the mixer superstructure. This, in effect, produces such a rigid and stress-free fit that problems of cracking or distortion on either the mixer frame or truck chassis are avoided. The result is a considerably extended operating life for both the superstructure installation and the host vehicle.



www.hub-4.com/directory/504



New Iseturn™ belt turning station on show at Hillhead 2010

Part of the Tema Group, Tema Isenmann is widely recognised as a forerunner in the design and manufacture of industrial screening systems. At Hillhead the company will exhibit their full range of systems including woven wire, harp sieves, fan sprays, rubber and polyurethane in tensioned and modular formats.

Also on display will be the Iseflex™ range of polyurethane coated wire meshes, modular concept finger screens and polyurethane spray bar and cross member protection. Tema Isenmann will also exhibit for the first time at Hillhead, the new Iseturn™ belt turning station which is a significant advance in conveyor belt technology.

Visitors to the stand will be more than welcome to discuss the Tema Isenmann range and the comprehensive sales and service backup the company offers.

See us on stand number F10



www.hub-4.com/directory/816

Eirich launch new R16 intensive mixer at Hillhead 2010

World renowned for their mixing technology, Eirich will exhibit their brand new R16 intensive pan mixer for the first time in the UK on the Orthos stand at Hillhead 2010.



The new mixer is a testament to the high degree of sophistication that is found in the concrete and building materials industry of today. Its versatility and high specific energy input make it particularly suitable for facing and speciality concretes.

Whilst incorporating the well proven principle of the rotating pan, the 'R' series is a simpler design to the older 'D' series mixer that is still widely used throughout the concrete industry. Fitted with a single multi-level mixing tool, and fixed pan and wall scrapers, the complete batch of material is swept into the mixing zone on every pan revolution. As a consequence, the applied energy is efficiently transferred into the mix, in direct proportion to the speed of the mixing tool. This tool may run in the opposite or same direction as the pan - particularly useful when light weight aggregates or fibres are to be mixed.

The R16 has a 500-750 litre capacity (800-1200kgs) and matches precisely the demands of today's industry, short mixing times, low energy consumption, high mix quality, batch repeatability and low maintenance.

See us on stand M20



www.hub-4.com/directory/11804

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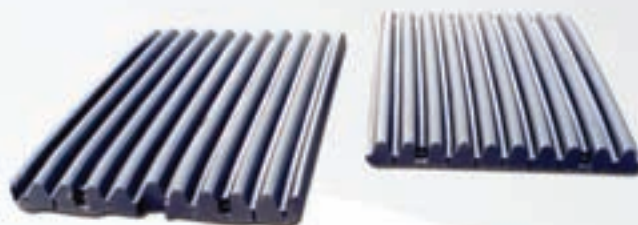
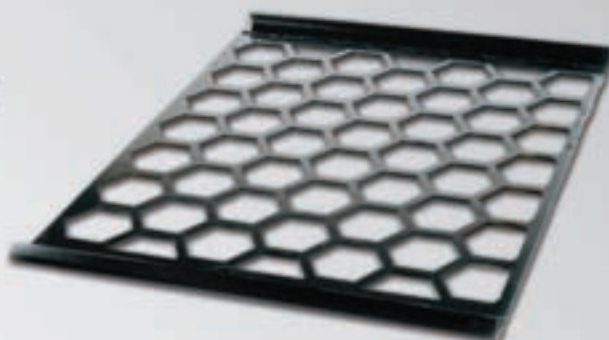


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Aggregate Processing and Recycling Ltd (APR) at Hillhead 2010



At Hillhead 2010 APR and GIPO will be exhibiting the GipoCOMBI RC130FDR which is a mobile heavy duty, highly efficient GIPO crushing and screening plant of compact design, with a production range or 200 - 550tph.

With a fully tracked mobile combination machine, there are crucial cost benefits for the purchaser, effective transportation, fuel consumption and the overall impact on the environment; this compact machine requires less space on site, and allows many classified end products to be produced simultaneously.

GipoCOMBI machines are available in Jaw, Impactor or VSI models with production ranges of 200 to 1100tph. This extremely powerful machine is combined with an integral 2-deck screen allowing the plant to produce a high quality end product. Additionally, the machine allows operation with a wider crushing dimension with the utilisation of the integrated oversized particle feedback. This also offers further benefits in crushing capacity and general wear.

Powered by the latest Tier3 Caterpillar diesel motor and efficient Rexroth hydraulic drives, this machine can be used universally and is highly efficient incorporating tried and tested technology and ease of operation.

See us on stand no: M12

 www.hub-4.com/directory/33

Skako Comessa announce rebranding at Hillhead 2010



Skako Comessa introduce Skako Vibration. Over the next few months, we will be re-branding our Skako Comessa name, to the company specific title of 'Skako Vibration'.

You will still be able to access our website and contact us during the changeover, as diverts will be in place from existing details.

The stand will feature examples of the complete range of vibratory drives, modular feeders, an open vibratory conveyor and a screen.

Three classic modular feeders will include both totally enclosed and open designs, with either electro-magnetic or unbalanced motor drives.

There will also be a heavy-duty vibratory conveyor with mechanical exciter to suit a hydraulic drive motor, and a screen with centre shaft elliptical drive. This screen demonstrates the 'Huck' bolted construction method for the company's heavy-duty machines.

Completing the exhibits will be a 'DS' type, geared mechanical vibrator, as used on the heaviest duty primary feeder grizzlies and horizontal screens.

Hillhead Exhibition stand No. N24

 www.hub-4.com/directory/778

Tema Machinery will exhibit their new mobile Liwell screening machine at Hillhead 2010

Tema Machinery will be exhibiting a wide selection of equipment which will include their new mobile Liwell screening unit which will take centre stage on the stand.

Developed over 40 years ago in Germany, Hein Lehmann Liwell technology offers effective screening of sticky, moist and abrasive materials. The new mobile concept incorporates a hopper and single screen and includes a hinged stockpile conveyor which can be folded away allowing easy transport.

Other exhibits include a pulsating jig which will be displayed alongside information on a wide range of processing equipment including linear, circular, elliptical, high energy and Siebtechnik/HG banana screen systems from their extensive product range. Sampling and laboratory equipment will also be featured on the stand which will shared with their partner Tema Isenmann.

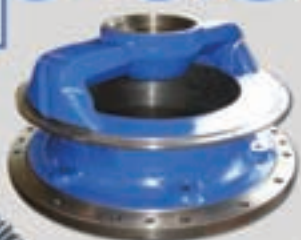
See us on stand F10.

 www.hub-4.com/directory/12622



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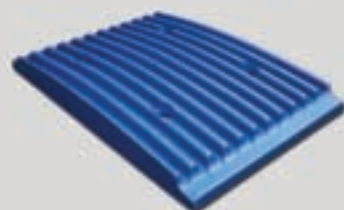
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State of the Art Waste Recycling Plant that Delivers Results



Rick Allen, MD, Brampton Skip Hire

Iona Waste Systems Ltd, recently manufactured and installed a waste management plant for Brampton Skip Hire in Cumbria.

Brampton, who provides a complete waste management and collection service to Commercial and Domestic producers, required a high throughput of varied waste streams which would produce quality products which fit WRAP protocols and high value recyclables.

Iona Waste Systems, based in Co. Tyrone, Northern Ireland, alongside WPS Ltd, based in Stafford, designed a bespoke state of the art waste recycling plant which delivered and met all of Brampton's requirements.

This involved installation of a primary screen box and secondary flex deck as opposed to Trommel separation which ensured that the recyclables retained their quality.

There was also a complex range of circumstances to facilitate within the project design. For example issues such as the existing building dimensions and traffic management. However, Iona and WPS worked closely with the customer to find the best possible solutions to their needs resulting in the final product.

Rick Allen, Managing Director of Brampton Skip Hire says:

"WPS and Iona continue to provide a wealth of technical support and an excellent backup service, giving us the confidence to begin negotiations for a large co-mingled plant using state of the art technology."

Iona Waste Systems Ltd specialises in the design and manufacture of a diversified range of products, aimed at the waste recycling sector.



www.hub-4.com/directory/12463



Hillhead 2010 - Volvo Construction Equipment

Volvo Construction Equipment is proud to be exhibiting once again at Hillhead 2010 with an even larger stand to showcase its hard and soft products - some of which are being exhibited for the first time in Great Britain.

Now fully integrated into the Volvo family, Volvo Road Machinery products take centre stage on the Hillhead stand in a road construction montage featuring the ABG6870 paver, the new MW500 milling machine and the new SD130 soil compaction roller. The road building display will be further complemented by a DD24 asphalt roller and Volvo Truck products.

Elsewhere on the Volvo stand, our display will feature products designed specifically for market sectors such as demolition, waste handling, extraction and general construction and will include an EC460C Ultra High Reach demolition excavator, and L120F waste handler, our flagship EC700C excavator and A40E articulated hauler products.

A whole range of soft offerings will also be on display including Volvo Finance and customer support featuring customer support agreements and CareTrack telematics. The benefits of our recently launched Eco Operator initiative will feature heavily at this year's Hillhead, supported by an articulated hauler simulator. Visitors to the stand will be invited to take the Eco challenge with an ultimate prize winner being announced daily!

Elsewhere, visitors will find our usual merchandise shop with a wide variety of official Volvo merchandise available for sale. And once again we will be supporting the Lighthouse Club by handing out a novelty gift in return for a modest charitable donation.



www.hub-4.com/directory/876

Precia-Molen UK Ltd - Hillhead stand N20

New for Hillhead 2010 from weighing specialists Precia-Molen will be the BI400 touch screen driver weighbridge terminal and ANPR system, which provides a comprehensive method of monitoring and controlling access with accurate vehicle identification 24/7.

The company will also be launching a new range of dynamic weighing equipment, including the BT lorry/train loading scale which encompasses many new features and the ability to connect to management systems. The system is Board of Trade approved for vehicle loading.

Also on display will be a Precia-Molen volumetric hatch suitable for use in a control system for the blending of aggregates.







www.hub-4.com/directory/683



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Dunlop introduce extended Quality Guarantee

For sales and technical enquiries please contact David Fowler on 01253 766420 or email david.fowler@dunlopconveyorbelting.com.

For the latest Dunlop Conveyor Belting news and information please visit: www.dunlopconveyorbelting.com

Netherlands-based Dunlop Conveyor Belting is planning to extend the standard guarantee on all conveyor belts from the industry norm of 12 months to 24 months. Dunlop has always maintained that their belts are the best quality and that they provide the lowest lifetime cost available in the market place. In what they believe is an 'industry first', they have decided to support those claims by providing their customers with a lengthy guarantee against premature failure due to faulty materials or workmanship.

Sales & Marketing Director Andries Smilda feels that this will be especially attractive to customers who are thinking of buying Dunlop belts for the first time. *"Our long-standing customers already understand the quality and cost-effectiveness of our belts, which is why they continue to buy from us. They know that it is a false economy to buy lower quality belts but those who have not experienced this for themselves are often cautious about trying a new supplier. I believe that providing a two-year guarantee will help reassure new customers in an enormous way".*

UK & Ireland Sales Manager David Fowler believes that this is good news for everyone. *"We have total confidence in the quality and durability of our belts and now we are going to prove that by offering a much longer quality guarantee". "We have been very encouraged by our sales in recent months and I am sure that this will strengthen our position".*



Haith Industrial exhibit latest CBB-CD65C decanter centrifuge

Part of the Haith Tickhill Group, Haith Industrial are widely recognised in the water treatment, robotic handling and waste handling fields as a company that can offer a full turnkey service. As a forerunner in design and technology the group has won many awards for quality innovation and is constantly launching new products.

As water and sludge treatment systems are an important element of the company product portfolio the company will exhibit at Hillhead the latest design of a lamella settling system, with automatic sludge monitoring and discharge system, alongside a CBB-CD65C decanter centrifuge designed for use with quarry waste.

Illustrating their prowess in designing efficient material handling systems, further exhibits include a bulk bag filling system for the rapid filling of bulk bags by weight and a sample section of a Haith picking station conveyor system.



www.hub-4.com/directory/373

Mogensen has announced it will display separating and vibratory feeding machines at Hillhead 2010.

It will show a Type SRSL 1700/1000 1m-wide, open single-deck vibratory screen, which offers a cost-effective option for lighter screening duties such as waste processing, low tonnage applications and fine separations; and a Type C1544 1.5m-wide enclosed, four-deck screener for high-accuracy, multiple separations.

Both of these machines are fitted with Invicta rotary electric vibrators.

The third machine on display will be a Type TRH 1360 2570 vibratory feeder powered by an Invicta hydraulic vibrator.

This machine is designed for use in both mobile and static plant without electrical power supplies.



www.hub-4.com/directory/583



Eriez Showcase the Latest Separators, Detectors and Samplers Hillhead 2010

Eriez are exhibiting the latest technology in metal removal, detection and sampling equipment on stand P136 at Hillhead 2010. On the stand will be a self cleaning version of the Model CP Suspended Permanent Magnet, a Cross Belt Sampler and a Metalarm 3000 Metal Detector.

Overband Permanent Suspended Magnets are used to protect valuable crushing and screening equipment against tramp metal damage or simply for removing iron from demolition rubble. The Eriez CP Magnet is robust, requires minimal maintenance, is very simple to install and operate and is very versatile. Along with the CP Magnet, Eriez also offer a TP Suspended

Permanent Magnet which are more specialised for the removal of long, thin, sharp metals such as nails.

In addition to Magnetic Separators, Eriez will also be showcasing their automated Sampling equipment. A Cross Belt Sampler will be found on the stand which is designed for operation on all types of granular material and obtains a representative sample direct from a moving trough belt conveyor. It requires minimal installation work and minimum maintenance.

With the pressure on many industries to supply a product which reaches the highest quality specification possible, numerous companies around the world will have a requirement to sample products. Automatic Online Sampling makes sure that the quality of the goods they sell or buy meets the stated specification. Some companies rely on manual sampling techniques, but this approach is open to abuse and to a high incidence of human error and bias.

Along with Magnetic Separators and Sampling equipment, Eriez Europe also design and manufacture Metal Detectors to detect ferrous and non-ferrous metals. Installing an Eriez Metal Detector on a conveyor belt system will protect downstream machinery from damage caused by tramp iron on the conveyor. They are easy to install and operate and typically consist of a control unit, search coil and connecting cable. Each coil is custom designed to optimise the sensitivity of the Metal Detector to meet the individual customer needs. At Hillhead, Eriez will have an operational Metalarm 3000 Metal Detector on their inside stand. It will be mounted on a conveyor belt and will demonstrate what the Eriez Metal Detectors are capable of.

To accompany the Metal Detector there will be various Metal Detector Accessories including the recently launched Inkjet Marker MK-II and SpyMet. The Inkjet Marker sprays ink onto a product stream to mark the location of pieces of detected metal contamination on a conveyor belt whilst the SpyMet can indicate the number of metal contaminants within a specific zone. Both of these accessories used either individually or part of a system provides a solution to track and locate tramp metal on a conveyor belt leading to minimal loss of production time and improved plant efficiency.

If you are interested in any of the products mentioned or would like to become a representative for Eriez **please visit the Eriez stand at Hillhead (P136).**



www.hub-4.com/directory/280

See the new concept car on the Fuchs Lubricants stand at Hillhead 2010

As a major specialist supplier of lubricants to the quarrying and recycling industries, Fuchs Lubricants recognize that environmental management has become a key issue for industry. Fuchs have therefore further developed their national specialist environmental waste management programme, which provides and industry specific tailored collection of all waste streams.

Fuchs has also recently introduced an environmentally friendly lubricant pack.

The new "Bag in Box" is an innovative design offering users tangible commercial advantages, including reduced waste disposal costs, minimal handling and reduction of carbon footprint.



Bag in Box comes in a 100% recyclable outer case and with 75% less plastic to dispose of (compared to rigid plastic packaging), significantly reducing disposal costs.

Bag in Box features a highly efficient container with a collapsing inner bag ensuring complete emptying without air ingress.

Comparing a 20 litre Bag in Box versus conventional 20 litre plastic containers is an absolute 'no brainer' as Bag in Box is 52% more efficient in the use of storage space!

With more efficient packaging and less storage space, reduction of vehicle movements is considerably reduced, improving your carbon footprint.

Fuchs Lubricants - stand no X3

 www.hub-4.com/directory/324

Hillhead 2010



Hillhead 2010

22-24 June 2010

Stand P136

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The changing face of Dunlop in the UK

Netherlands-based Dunlop Conveyor Belting has been undertaking something of a quiet revolution in recent years. Previously known as Fenner Dunlop, they have made sweeping changes to their logistical and supply chain processes, production (including major investment in new machinery) customer services right through to their branding. According to their long-serving sales and marketing director, Andries Smilda, the changes and improvements are all part of a much longer term strategy.

"In many ways it feels like the company has been re-born. We have brought in a lot of 'new' people with specialist knowledge in a wide variety of disciplines who have helped us to build on our traditional strengths of quality and technical support for our customers," says Mr. Smilda. "Dunlop has always prided itself on being the market leader for quality and we are determined never to lose that culture".

The changing face of Dunlop is becoming more and more evident in their approach to the UK market. Having previously been largely dependent on a single distributor to promote their mainland activities,

Dunlop have now adopted a much more direct approach. UK and Ireland sales manager David Fowler is convinced that this is the best way forward. *"In Ireland we have an excellent distributor in C & K Fitzpatrick's who have an intimate knowledge of the Irish market. However, on the mainland we mostly sell direct to the end-user" says David. "We're not really into the cheap and cheerful end of the market. The UK is flooded with cheap imports so we just tend to let them get on with it".*

Instead, explains David, Dunlop continues to play to its strengths by focussing on the 'quality end' of the market supplying the more specialised high-performance belting. *"We tend to sell longer-term solutions rather than just lengths of black rubber".* Dunlop belts are widely recognised as being the world standard for quality and reliability, including what they refer to as the *"ultimate solution"* in high performance belting. *"UsFlex is an amazing product, especially when it comes to rip resistance and high impact absorption"* says David.

introduction of a 2-year quality guarantee on all belting products compared to the industry norm of 12 months. This apparently bold move is not, maintains Managing Director Edwin Have, a marketing gimmick. *"Telling customers that your products are the best and that they last longer is one thing but it is important that you back it up. We have total confidence in the quality and durability of our belts and extending our guarantee proves just how confident we are".*

Despite the global economic situation, Dunlop remains positive about the future. Mr. Have concluded *"More and more customers are returning after bad experiences elsewhere, which makes us even more determined to continue following the quality path".*

For sales and technical enquiries please contact David Fowler on 01253 766420 or email david.fowler@dunlopconveyorbelting.com. For the latest Dunlop Conveyor Belting news and product information please visit: www.dunlopconveyorbelting.com.



www.hub-4.com/directory/12631

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One of the most recent improvements announced by Dunlop has been the

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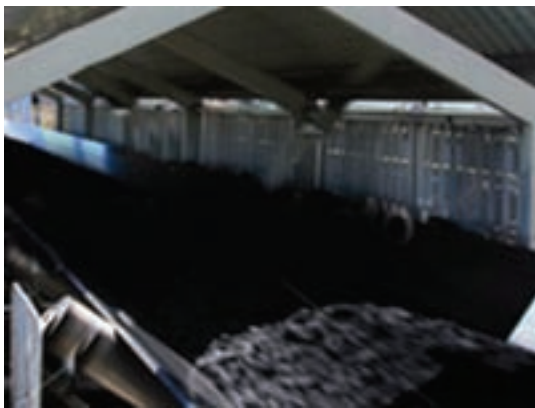
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See us at Hillhead, Stand C7





Davis Derby

Davis Derby will be exhibiting at Hillhead 2010 International Quarrying and Recycling show, which is being held at Hillhead Quarry, Buxton, Derbyshire on the 22nd - 24th June.

Davis Derby's Stedfast range of conveyor protection products are well established within the materials handling industry and for Hillhead 2010, we will be launching our new Category 4 compliant signalling systems.

Why not come along and visit our stand and discuss your requirements.

 www.hub-4.com/directory/9108



Metal Detection To Exhibit At Hillhead 2010

The Hillhead exhibition is the worlds' largest working exhibition of quarrying and recycling equipment. The show is famous for its wide range of working demonstrations, which include crushers, screens and hauling equipment. Of course, separation, sorting and detection equipment for protecting the very valuable pieces of machinery will also be on show.

This year, Hillhead is taking place between the 22nd and 24th of June at the Hillhead Quarry in Buxton and will again be hosting around 400 exhibitors. Amongst them will be Metal Detection Ltd, showcasing a range of Metal Detection equipment, commonly applied to Mining, Quarrying and Recycling applications. The Metal Detectors being shown on stand C7 will include the TN77 and MDB5/QTA units.

 www.hub-4.com/directory/9137

Master Magnets Return To Hillhead

Master Magnets Ltd will again be exhibiting at the Hillhead show this year, making it the company's 6th consecutive appearance at the world's largest exhibition of working quarrying and recycling equipment. The Mastermag stand (C7) will again be located on the ramp leading down to quarry, where the company plans to have a range of Magnetic Separators and Metal Detectors on the stand.

The Magnets that will be shown on stand C7 will include the self-cleaning Overband Separator as well as a Suspension Magnet. Overbands are commonly used for the continuous removal of ferrous contaminants from various product streams, whereas Suspension Magnets are used to remove much smaller amounts of ferrous contamination.

Alongside the Magnets, visitors will also be able to view some of the Metal Detectors that are most often supplied to the Quarrying Industry, such as the TN77 unit. The TN77 is of a very simplistic design and is the most cost effective solution for the detection of ferrous and manganese contaminants. There will also be a QTA detector on the stand, which is used in applications whereby the complete protection of all types of tramp metal may be required.

We very much look forward to meeting all of our new and existing customers at what promises to be another fantastic Hillhead show.

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Integration, integration, integration- Weightron demonstrate the future of weighbridge systems at Hillhead 2010

Weightron Bilanciai are using this year's Hillhead Exhibition (Stand M8) to reinforce their standing as the UK's leading supplier of weighbridges, software and vehicle management systems. Weightron lead the way in driver operated weighbridge systems and maintain that weighbridges are no longer simple devices for weighing vehicles; recognising that customers' expectations have changed considerably over the past three years.

Visitors to the Weightron stand will be able to see at first hand how the company's enhanced Winweigh IV software and peripheral control equipment bring significant improvements in data collection and management, site security and vehicle logistics. Winweigh is setting new standards in weighbridge management and can be integrated with a diverse range of peripheral equipment including automatic number plate recognition systems, control barriers, electronic signature pads, radiation detection systems and card readers. Further integration with management software packages, such as SAP and Sage, completes the integration capabilities.

Also on show will be Weightron's new industrial PC based Diade driver-operated terminal, which, in conjunction with its robust touch screen technology and Winweigh's modular design, brings optimum user flexibility and versatility. Weightron personnel will be on hand to demonstrate how data can now be collected from site wide, nationwide or international installations and then viewed via powerful web browsers from central locations.

Stand M8



www.hub-4.com/directory/2273

Dedicated VMI Systems at Hillhead 2010

Dedicated VMI Systems will be showcasing its eVMI products at Hillhead 2010. It is the first time that Dedicated VMI Systems has exhibited at Tarmac's Hillhead Quarry, near Buxton, Derbyshire. On display will be an array of our latest web based products, showcasing alongside Live Feed Updates to fully demonstrate our products potential. We will also be showing web animation tutorials to help you understand how eVMI is essential to your business.

We invite you to join us alongside Francis Flower and look forward to welcoming visitors from all over the world. Please come and visit our stand and learn how our range of eVMI products and quality customer service can help develop your business.



www.hub-4.com/directory/12623

The Greenbank Group at Hillhead 2010: Designing the Difference

One of the UK's leading providers of materials handling solutions, The Greenbank Group, will be at Hillhead 2010, 22-24 June 2010 in Buxton, promoting their portfolio of world class products and services for the extractive and heavy construction industries.

On show at stand H6 will be a model of Greenbank's Pipe Conveyor, an alternative to traditional trough conveyors which provides an extremely cost-effective and much more environmentally friendly solution for handling bulk materials.



Customers will also be able to see the next generation in belt weigher technology and learn how Greenbank can help improve the operational efficiency of materials handling systems using their latest CAD 3D solid modelling techniques.

A team of highly experienced engineers will be on hand to explain the difference an optimally designed materials handling system can make to operational performance and demonstrate the significant reductions in maintenance and repair time that can be achieved with a materials handling solution designed, constructed and implemented by the Greenbank Group.

To find out more about the Greenbank Group and see how they can help with your materials handling requirements, **visit the team at stand H6.**



www.hub-4.com/directory/361

New Sand Impactor from Hazemag

Visitors to the HAZEMAG stand at Hillhead can see the all-new HAZEMAG AP-KV sand impactor.

The completely re-designed impactor has four generously-sized doors providing full access to internals. Blow bars are now inserted laterally, to permit quick and easy turning or replacement, and impact aprons have a push-button hydraulic system. The AP-KV's housing is lined with easy-to-change wear plates and almost all wear liners are fully interchangeable. A feature of the new design is a reversible rotor, which allows rotation direction to be changed to ensure that blow bar striking edges are fully utilised, and rotors can be supplied with either two or four blow bars.



A vibrating feed system and vertical inlet arrangement provide optimum feed distribution over the whole length of the rotor to achieve optimum comminution of feed material whilst maintaining even wear rates of the blow bars.

The new AP-KV is designed to produce high quality, uniformly-sized sand and chippings at capacities up to 120tph.

HAZEMAG UK Ltd., Stand: Q12



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Bell B30D - a new MkVI version of Bell's classic ADT

First official UK public showcase for Bell wheeled loaders



Bell's L1706E - part of the new E-Series wheeled loader range



Bell B30D ADT and L2606E wheeled loader

Bell Equipment is publicly showcasing its new range of E-Series wheeled loaders at Hillhead, for the first time since their UK press launch in 2008.

Hillhead 2010 is also playing host to part of Bell's new range of MkVI D-Series Articulated Dump Trucks, which have been another recent addition to the company's catalogue.

The MkVI machines have been given a host of largely "under the bonnet" and cabin improvements, setting yet another benchmark for the industry in terms of safety, ease of operation, reliability and performance.

Bell's Hillhead exhibition line-up includes the B30D, B40D and flagship 50-tonne B50D ADT, alongside four of the

seven-strong range of Bell wheeled loaders; the L1506E, L1706E, L1806E and L2606E models.

In addition, the UK arm of the South African plant manufacturer is announcing the launch of Bell Assure.

Bell Assure is a package of combined products and services above and beyond machine sales, which have been designed to provide customers with the ultimate flexibility of choice to enable them to run their fleet more efficiently.

Bell has already earned a reputation for its customer service excellence, but Bell Assure helps to formalise the available financing, optional extras, used equipment and after-sales services as well as setting down, for the first time, measurable guaranteed levels of service.



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The package includes everything you might need as a plant operator to add value to your business, from flexible financing and service contracts to plant security and world-class fleet management systems.

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