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Issue 14

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

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Hillhead recognises ten years of safer quarries

The Hillhead exhibition made its return after an extended break. The sun shone down on the Buxton quarry as the industry displayed its latest innovations and talked shop. The fact that the event is held in a quarry, hosting busy live demonstration areas, makes it an ideal location to also be talking about safety. So it was highly appropriate that Hillhead welcomed the chair of the Health and Safety Executive (HSE), Judith Hackitt, who was there to make a special address to mark 10 years of success in reducing death and injury in Great Britain's quarries.

Reportable injuries in the sector are down 76% since the 'Hard Target' initiative was launched in 2000 and Ms Hackitt commended companies, trade bodies and trade unions for their efforts.

Ms Hackitt also used her speech on the opening morning of the show to rally the industry in making a renewed commitment to 'Target Zero', with the aim of bringing down reportable injuries by a further 15% year on year by 2015.

"The quarrying industry has demonstrated what can be achieved when an industry sector commits to improvement in health and safety. However, there is no room for complacency," she said.

"As the number of incidents decrease, it will get ever more challenging for the industry to make further gains. Reaching the new goals will require even more hard work, determination and the development of new approaches.

"The improvements made so far are down to strong leadership, with employers promoting a safety culture right across their organizations, bolstered by the efforts of the unions and trade associations. It is also about creating an environment that encourages sharing and learning."

Martin Isles, the MPA's director of health and safety, and deputy president of the Institute of Quarrying, commented: *"The industry has made massive strides in health and safety over the last 10 years in particular. But to achieve its ultimate goal of zero harm, a stronger focus is needed on the more challenging issues and to convince all stakeholders that the supply chain has a vital role to play."*

Representing those at the sharp end, a spokesperson for the GMB trade union added: *"GMB strongly supports the work of everyone involved in the Target Zero campaign. The superb results achieved to date are testimony to the value of involving workers to develop joint solutions to the key issues that the quarrying industry faces. We look forward to embedding this good practice across the sector and driving further improvements in the future."*

Steve Cole of the British Aggregates Association talked about the BAA's Site Assessment Scheme and the significant contribution it can make to Target Zero for its members. The scheme is designed to ensure that an entire site meets all of the requirements laid down in the legislation affecting quarry operations. After examination of the operation by an independent health and safety assessor, a specialist panel considers the findings of the assessor before a final certificate is awarded. The certificate lasts for three years and the rigorous scheme is designed to be a 'moving' document that is constantly updated in line with new legislation and standards.

Many BAA members have now completed the scheme, while others had signed up to the commitment and were in various stages of assessment.

With many of its members having limited resources, this BAA scheme shows how simple innovations can enhance safety.

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Summer 2010

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Linatex products and industry expertise

New Linatex G4 Hard Metal Pump improves efficiency and final product

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



Within their 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, alongside the difficulty in sourcing replacement items had a continual adverse effect on production. 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 G4 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 Linatex G4 Hard Metal HSN100 Pump feeds 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.

A clear winner:

From past results with the Linatex G4 Hard Metal Pump HSN100 the service results will indicate a clear winner in favour of the Linatex pump 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 G4 Hard Metal Pump will provide the customer with substantial annual 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 G4 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, commented, "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 and 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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play a major part in many projects

Linatex install 300mm valve at Tarmac Stanway

A recent valve installation has proven an unqualified success for a major aggregate producer, once more underlining the lowest cost of ownership for a Linatex Valve.



Tarmac Limited who own and operate extensive sand and gravel operations at Stanway, near Colchester is the leading supplier of heavy building materials in the UK providing solutions in all areas of everyday life.

Tarmac Stanway is a key site for the company who have previously made a significant investment in state-of-the-art processing technology at the East Anglian sand and gravel operation in 2007, Linatex as part of this investment, were one of the main suppliers, successfully installing a sand processing classification system for the operation.

Keeping the plant in tip top condition and continually optimising its efficiency is a daily requirement at the site. Management at the plant had been unhappy with the service life and unsatisfactory performance of an existing non return valve which was installed on a (remove waste disposal) silt discharge line with a feed comprising process waste of (remove mixed) fines and sandy clays. Proving difficult to seal, this caused the valve to leak, resulting in the quarry processing area becoming flooded on a regular basis.

Consequently, after consultation Linatex recommended and subsequently installed a 300mm diameter Linatex CV SNR single non return check valve. The Linatex CV SNR valve has provided a comprehensive solution for the required performance requirements which entailed being able to withstand a 20 metre system head, 1,400 metres if 300mm NB pipe and a flow rate of 600m³/hr.

Since the installation in January 2010 the Linatex CV SNR valve has continually proven its design and performance, ensuring a drip tight sealing against pipeline back flow, with its unique design ensuring no part of the valve mechanism is in contact with the water. As the design is 'full flow' with minimum pressure drop, Tarmac has stated a second benefit they are enjoying is considerable power savings when compared with the previous valve.

The Linatex Check Valve - series CV SNR is a single port rubber lined swing check valve for prevention of reverse flow in abrasive and corrosive flowing media. The valve has no internal metal parts exposed to the process flow and features a metal and fabric reinforced moulded rubber disc that seals drip tight over a full bore port. All the internal parts of the valve are lined with replaceable Linatex Rubber Liners, ensuring minimum maintenance.

Mark Murray - Quarry Manager, commented, *"Prior to the installation of the new Linatex check valve we experienced significant issues when we switched the main silt pump off. The full silt line which is 1.4km in length and at a 20 metre head would rush back down the pipe and previous valves proved ineffective in the long term. Since we installed the new check valve it has removed the issues with the pump seals and has significantly reduced the power requirements whilst improving safety and housekeeping."*



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Recent projects.....

Hanson Aggregates – Frindsbury Wharf

Sand Processing & Screen
Dewatering System

Hills Quarry Products – Woodsford Farm

Compact Sand Classification &
Screen Dewatering System

Bournemouth & West Hampshire Water – Knapp Mill

Sand Processing System

Hanson Aggregates – Barton Quarry

Computer Controlled Sand
Classification & Lignite Removal
Plant

Hanson Aggregates – Whitley Quarry

Sand Processing & Screen
Dewatering System



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Finning sells Hewden, its UK equipment rental business

Finning International has sold Hewden, its UK equipment rental business, for gross proceeds of £110.2 million to an affiliate of Sun European Partners, LLP, the European adviser to Sun Capital Partners. The consideration comprises cash of £90.2 million, an interest bearing 5-year loan note receivable of £20 million and a 5% equity warrant subject to certain conditions being met. Finning will use the proceeds primarily to reduce debt.

"After a comprehensive review, we have determined that for strategic and financial reasons, it is in our shareholders' best interest to divest Hewden," said Mike Waites, president and chief executive officer of Finning International. "While we believe that Hewden's broad product offering combined with our recent restructuring and national accounts focus will serve it well in the future, owning a large, short-term rental business operating separately from our UK dealership does not align with our strategic objectives. Finning remains fully committed to the UK Caterpillar dealership and its employees who are strongly positioned to serve the construction, mining and power systems markets."

"Going forward, Finning's UK dealership will continue to work closely with our plant hire customers to place Caterpillar equipment into the UK equipment rental market," added Andy Fraser, managing director of Finning UK Group. "Our market approach is to provide total solutions with extraordinary service and Caterpillar world class products. We are confident we can demonstrate the value of Finning to Hewden's new owners and maintain a productive commercial relationship with Hewden."

"This is a continuation of our journey towards a new Finning and the final step in rationalizing our UK operations. Combined sale proceeds from this transaction, Hewden Tools, and the dealership's Materials Handling divisions total almost \$600 million," noted Mike Waites. "We have a great business model going forward and are completely focused on driving the operating performance and value potential of Finning."

Hewden covers 63 locations in the UK and has 1300 employees. The existing Hewden commercial centre in Manchester is proposed to be the new head office for Hewden. Finning has agreed to provide transitional services to Hewden.

Finning UK will continue to operate 20 branches in the UK with 1470 employees serving Caterpillar dealership customers throughout the UK based from its head office in Cannock, Staffordshire.

Finning meanwhile has announced a 3 year service/support-led deal for nine items of Caterpillar equipment worth in excess of £1m, with Raymond Brown Group for use in its construction, minerals and recycling divisions.

The deal includes five Cat 320DL excavators, two Cat 962H wheel loaders, one Cat 966H wheel loader and a Cat M318DL Material handler, with a guaranteed 3 year uptime promise for every machine.

The machines are fully backed up with a 3 year warranty and service package, guaranteeing Raymond Brown the most cost effective, efficient owning and operating costs. Also included in the deal was an industry first 3 year guaranteed uptime Lastability promise for all the machines, meaning Raymond gets Finning support for the full life of the machine.

Commenting on the deal with Finning, Raymond Brown Group plant director, Mark Isaac said: *"Even though the country is officially out of the recession, the current climate is still very challenging. However as a forward thinking and well-run business, we recognised that there would be significant financial benefits in placing an order of this nature at this time. Not only would we have the most up to date fleet in the market, that would give us the ability to ramp up our operations in a recovery, we would also be able to benefit from competitive pricing and equipment availability."*

"Learning from our recent experience, we have now moved to more service delivery approach to our fleet purchasing decision making process, where the overall cost of ownership, servicing and performance per litre of fuel, is more important than unit purchase price for example."

"What we also needed to be confident with in terms of this purchase decision was that we selected a supplier business in Finning and Caterpillar that is here to stay, not only from a production point of view but from a service delivery perspective, as we are not prepared to compromise on this."



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Hanson scoops British Precast project award

An office development on Hanson's former brick works site at Stewartby in Bedfordshire, has won the 2010 British Precast Concrete Federation's 'best project' award.



John Duffy, commercial director of Hanson Building Products' floors and precast division (right) receiving the BPCF award 2010 from Graham Moorfield, regional business manager of sponsors Grace Construction Projects.

The 63,500 ft² building, which has a BREEAM excellent rating and showcases Hanson's product range, has two wings of office space linked by a central hub. It was planned, designed and built by a Hanson project team led by project manager Duncan Edwards.

The building is naturally ventilated, demonstrating the effectiveness of masonry construction in reducing energy consumption, through thermal mass, and incorporates rainwater harvesting, increased insulation, night-time cooling and solar shading.



Precast concrete was used to create the striking central staircase and exposed ceilings, which both use the Hanson Cobiax flooring system. This saved over 200 tonnes of CO₂ compared to a conventional concrete flooring system. The precast elements also help to make the building thermally efficient.



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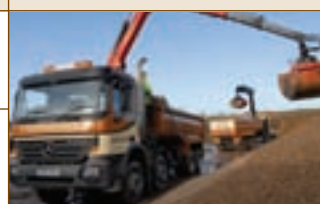
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MPA members win top European Sustainable Development Awards

Two MPA member companies, Lafarge Aggregates and Hanson UK, won top prizes at the European Aggregates Association (UEPG) Sustainable Development Awards in Munich on 27 May. Hanson won the overall 'Social Pillar' category and was presented with the Health and Safety Best Practice Award for Criggion Quarry in Shropshire, whilst Lafarge won the Restoration Best Practice Special Award for the National Memorial Arboretum in Alrewas, Staffordshire.

Nigel Jackson, chief executive MPA, said: "Two of our members winning top prizes at European level is an excellent achievement and an accolade we can all be proud of. Health and Safety is an absolute priority for MPA members. Our aim is to drive down the number of reportable injuries and achieve Zero Harm: we succeeded in beating our own 'Hard Target 2009' and have now set an even more ambitious health and safety targets for the next 5 years.

"The 'Safer by Design' voluntary initiative which Hanson UK played a key role in pioneering with the MPA has received great international recognition and support and is now an official UEPG project. This initiative further demonstrates MPA's commitment to improving health and safety across the whole supply chain."

Nigel added, "The National Memorial Arboretum is an outstanding example of restoration which also won MPA's top national prize for restoration. We are pleased the importance of high quality restoration in the UK as part of our contribution to sustainable development is recognised in these European Awards."

Hanson's winning submission for Criggion Quarry demonstrated how the company responded to repeated injury incidents involving falls from mobile plant, by commissioning an in-company survey of all UK mobile plant to identify and install remedial measures. Machines were inspected for evidence of defective design and 550 individual machine reports were generated, covering 260 items of mobile plant. Managers and staff co-operated positively and installed a wide range of practical health and safety improvements, reducing accident potential at all company sites.

Hanson had previously won the 'TUC Trophy' under MPA's national Health and Safety Awards Scheme 2008 and knowledge from this survey provided the nucleus to formulating the 'Safer by Design' initiative via <http://www.Safequarry.com>.

The award-winning submission from Lafarge Aggregates outlined the development and importance of the National Memorial Arboretum. Lafarge Aggregates completed Restoration of the site where the National Memorial Arboretum now stands in the 1990s. As well as providing the land, Lafarge has been instrumental in the creation and rapid growth of the Arboretum. Now the Arboretum represents over 150 groups - military and other; it employs over 20 people; has over 100 regular volunteers; and nearly 300,000 people passed through the gates during 2008. The continued expansion of this special wildlife haven is being managed in conjunction with Staffordshire Wildlife Trust. The Trust has helped encourage a rich diversity of wildlife throughout a wide variety of habitats.



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Lafarge celebrates health & safety trio of achievements

Lafarge A&C UK, part of the Lafarge Group, is celebrating a trio of major achievements in health and safety. First up is Lafarge being the first major to meet the MPA target for all Appointed Persons (such as quarry foremen or managers) at UK quarries to have a recognised qualification that demonstrates their competence in safety management. This important target, established by the MPA to help substantially reduce accidents, has been achieved through Lafarge A&C UK's ongoing commitment and investment in training and development, such as its Continuous Professional Development (CPD) programme with the Institute of Quarrying, its Leeds University MSC programme and its continuous innovation of safety processes. Lafarge's Appointed Persons have attained SHE (Safety Health & Environment) NVQ qualifications.

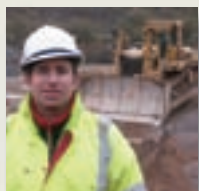
The second achievement is being recognised, by 2009 Mineral Products Association (MPA) figures, as the safest UK quarry operator by a factor of 5 compared to its nearest major competitor.

Finally, comes entry into the worldwide Lafarge Health and Safety Excellence Club. The club features the safest Businesses from across the 79 countries in which the Lafarge Group operates measures a range of challenging Health & Safety performance indicators including achieving a frequency rate for Lost Time Incidents (incidents causing any employee to be off work for more than 1 day) of less than 1 incident per million man hours worked

Jeremy Greenwood, managing director - Readymix, who holds executive responsibility for safety across Lafarge A&C UK's three UK Businesses (Aggregates, Readymix Concrete and Asphalt, Contracting & Paving), said: "Safety is our number one priority. Ensuring our employees, the visitors to our sites and contractors with whom we partner us are safe, in everything they do, is central to our philosophy and our way of life. We are therefore very proud of these achievements. We will continue to take health and safety in our industry, and in UK PLC, to the next level."



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Economic training: saving money by being green

Mentor product manager, Steve Parfitt

Green jobs and skills are an essential element of the low carbon agenda and are continually at the heart of discussions about the country's economic recovery. Inevitably companies will be under increased pressure to ensure that training for new skills has a low carbon element to it.

Mentor Training, provider of nationwide training courses to the Quarrying, Recycling and Bulk Handling Materials industries has been looking at what this means for mobile plant operator training.

When it comes to how the machine is operated there are two hot topics in the carbon footprint league table, fuel efficiency and fuel consumption. On average a machines major operating cost is fuel, which is likely to be more than

its initial purchase cost, if operated inefficiently this will without doubt have an impact on any company's bottom line.

While skilled operators know how to get the job done with the equipment they work with in the required time, little or no thought in the past was given to the machine operating efficiency and how the operation impacted on total fuel consumption and cost.

Training operators to be safe, efficient and effective in their job is the main objective of any Mentor Training course. Product manager, Steve Parfitt explained: "Operator training is and should be a valuable investment for any company regardless of size and operation. We have worked hard to ensure that our courses cover key aspects that will help educate operators to use equipment in the safest, most productive and cost effective way. From correct start up procedures and operating techniques through to correct loading, dumping, bucket position and brake wear and tear, all of which can impact on the levels of CO2 produced by the machine."



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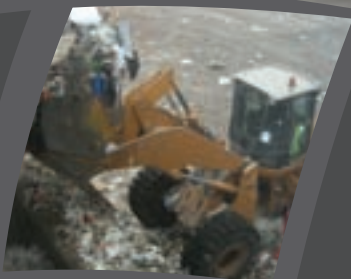
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Water saving washing

A new washing unit removes contamination with up To 75% less water than standard washing equipment

The Hydro-Clean washing unit from WS Tyler effectively cleans deleterious material from aggregate, industrial minerals and metals while reducing water consumption by up to 75% over traditional log washers. Taking a maximum feed material size of up to 150 mm into its vertical drum, the Hydro-Clean employs high-pressure nozzles, rotating at 90 rpm, to spray up to 90% recycled water on the material with pressures up to 200 bars. The washing unit removes silt and clay particles as small as 63 microns from mineral mixtures and, with its short retention times, can process up to 400 tonnes, depending on model size and application.



Before



After

Due to its compact size and weight, overall operating and structural costs are considerably lower than with traditional washing systems, which also require more equipment and a greater footprint. A traditional washing system can require up to three screens along with a log washer or screw. With a Hydro-Clean unit, the producer only needs an additional wash screen for the Hydro-Clean's discharged material.

The Hydro-Clean is suitable for use in clay-heavy material deposits. The dirty material is fed via hopper to a vertical washing drum, where high-pressure nozzles mounted at the top rotate and spray the material with water. The water streams spread and wash the material at pressures of up to 200 bars, effectively interacting with the material to break up agglomerates and clean the particles of stubborn material. The turbulence in the drum creates additional scrubbing and abrasive forces that enhance the cleaning process as the material travels down the drum cylinder. And because high-pressure streams of water are injected into areas of the rock, such as holes and cracks, that are difficult to reach with traditional cleaning methods like log washers or screws, the end result is a cleaner product that generates higher selling value. In addition, many producers use this unit to turn material that was once dirty waste into revenue.

During the cleaning process, the washed material works its way down the drum and exits onto a discharge conveyor that leads to a standard wash screen, which removes any remaining dirt or clay still on the stone as it fractionates the material. The resulting dirty water flows through polyurethane screen mesh installed in the sides of the washing drum and is collected by a waste water pipe, which sends the water to a treatment system for additional fine screening.

The Hydro-Clean consumes little water and power. Water consumption ranges from 27 to 211 gpm, depending on application and model size-compared to log washers that can require up to 800 gpm of water. Power requirements for the Hydro-Clean are no higher than 225 kW on its largest model. When compared to conventional systems, the Hydro-Clean experiences little wear with a maintenance-



friendly design that allows for easy exchange of the few standard components that are subject to wear. The Hydro-Clean is available in four model sizes that produce 20 to 400 TPH, depending on the application.

The distance between the washing rotor and the material bed in the Hydro-Clean is variable and allows the system to adapt to various material types. Level sensors located at the material feed inlet provide exact data to the PLC control unit, ensuring a consistent material flow into the system.



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Metal + Waste Recycling invests in dust suppression units

Following extensive comparisons and appraisals of mobile dust suppression equipment in the UK - and after a site demonstration of a DustBoss DB-60 - Metal + Waste Recycling has taken delivery of 10 of these versatile dust suppressors from UK importer INMALO. Five units are wheeled and the others are skid versions, with the machines being deployed in a number of Metal + Waste's locations throughout the UK.

Metal + Waste Recycling is one of the country's largest metals recycling specialists, with a series of sites strategically located around the UK, processing, reclaiming and recycling a wide range of ferrous and non-ferrous metals, C&D, industrial and commercial waste for re-use in manufacturing new products worldwide. The company specialises in factory collections and total waste management, including WEEE and ELV processing, fragmentising, shearing and baling, with export markets predominantly served by containerised reclaimed materials and foundry-ready secondary metals.

The very nature of the business means that dust creation is unavoidable. Metal + Waste has always paid particular attention to the environmental impact dust can cause, with tailor-made static dust suppression systems installed at all their operations to ensure maximum control of the problem. However, the company has found that static dust suppression is not always sufficient and has taken steps to seek an efficient and cost-effective solution by investing in DustBoss units. *"We had tested the market and looked at a number of mobile dust suppressors" said Metal + Waste director John Rice "and were impressed with the build quality and efficacy of the DustBoss DB-60. INMALO loaned us a unit on demonstration," he continued, "and we were impressed with its performance, which convinced us that these were the dust suppressors we should invest in. The mobility of the DustBoss DB-60 means that we can take it to any area on our sites - be it stockpiling or processing - set it up and have it*



running in no time at all. We are finding that the dust-suppressed areas covered are far greater than we can achieve with just a static system and, in effect, we can take our dust suppression to where it is needed most and move it on to another area quickly and easily".

The DB-60 uses a series of 30 specially-designed brass nozzles to atomize water droplets to the optimum size for maximum particle attraction and coverage, launching them with a powerful 25 hp fan. The unit's suppression efficiency derives from its ability to balance a number of critical properties that tend to work against one another, such as droplet size, spray pattern, air flow, range and velocity. The ducted fan delivers 850 m³ of air flow per minute through the barrel, giving it a throw of more than 60 m. The DB-60 has an adjustable elevation from 0-50° and a 40° oscillating head which can cover nearly half an acre and the wheeled mobile unit can be easily located to wherever it's specifically needed.



www.hub-4.com/directory/12849

Technology to help operators track and measure waste

A range of hardware and software solutions that provide waste management operators with the ability to meet the challenges around tracking, weighing and monitoring of domestic refuse and trade/commercial waste has been launched by OTTO UK.

The solutions deal with many of the day-to-day problems experienced by operators in the private and public sectors, including: Identification and weighing of domestic, trade and front loader containers; monitoring and tracking of containers; container administration; route management and optimisation; online monitoring and systems for pay-as-you-throw or reward for recycling

The OTTO 'c-modules' waste management systems deliver tailor-made solutions to deal with a wide range of operational and management problems including European standards compliance issues.



The basis for all the modules is OTTO 'c-ware', which has been designed to handle all data from several modules.

A number of functions can then be achieved, including charging and billing, map visualisation, container distribution, chip retro-fitting, inventory management and fleet management.

Two key modules are 'c-ident', which utilises radio frequency identification to enable users to quickly and accurately identify containers, and 'c-scale', which provides dynamic weighing technology on vehicles.

The OTTO 'c-ident' module is a chip reader mounted on the comb of the lifter, which automatically identifies the container (and customer) and time/date of emptying as well as the GPS position of each lift.

And the OTTO 'c-scale' weighing system is a dynamic system based on state of the art vibrating



wire technology and unlike many other weighing systems, does not require the lifter to stop, slow down or in any other way interrupt the emptying process.

Other modules are: OTTO 'c-watch', which enables waste containers to be managed and tracked; OTTO 'c-route', which records the performance data of waste collection vehicles; OTTO 'c-fleet', which allows for constant updating of route and work patterns; and OTTO 'c-service', a comprehensive package of support for successful project management.

Max Ryan, who is responsible for the new product launch at OTTO UK, commented: "Anticipating trends in waste management and recycling has always been a strong point for OTTO. We're one of the best-known names in waste management and our experience has helped us to lead the way for a number of decades.

"It's our understanding of the waste management industry, which is now facing increasing costs and complicated operational challenges, that's enabled us to provide this solution. The OTTO 'c-system' deals with the day-to-day problems experienced by operators."



www.hub-4.com/directory/6563



Ground level solutions for Portway Plant

A new ALLU processing bucket - supplied by Finlay Central to Portway Remediation - is helping to transform derelict, contaminated land for a social housing development, without the need to remove materials to landfill.

Using a proven methodology involving an ALLU bucket to fragment the contaminated soil, Portway Remediation - a division of Portway Plant - is carrying out the treatment by adding bacteria into the soil as it passes through the ALLU bucket.

The new ALLU bucket joins the plant fleet, which already includes another ALLU bucket fitted with cutting teeth, forming part of a new process using green waste and sub soils to produce topsoil.

This method further reduces the cost of importing topsoil for the redevelopment and recycles a waste stream.

Currently Portway Remediation is using both ALLU buckets on site in Leicester to treat 17,000 m³ of hydrocarbon impacted material, to allow the redevelopment of the site by Westleigh Developments.

When the first phase of development is completed, 196 new dwellings will be created.

Ian Chambers, a director of Portway Remediation, which is based in Redditch, said: "ALLU buckets are key to the remediation process for our application. The process involves using attachments to each bucket to spray the bacteria onto the soil as it is fragmented. Different levels of contamination and soil types require specific attention, and the ALLU buckets allow us to target and deliver the necessary treatments.

"We have been using ALLU buckets for eight years. We have tried different sizes and configurations and found the best for us is the SM3 -17 model. This is 1.7 m wide and has three rotating shafts and we find our Volvo EC210CL excavator copes with very well with this type of machinery."

Neil Bailey, sales engineer of Finlay Central - part of the Finlay Group of companies - said: "Before this bio-remediation process was developed, making good the land would have necessitated the removal of all the contaminated soil to landfill and refilling it with uncontaminated earth.

"The use of ALLU buckets on the site provides a sustainable way of converting brownfield sites, which have been subjected to contamination over the years into land ready for development. This process also reduces road usage by heavy lorries transporting materials in and out of the site, an important consideration in built-up residential areas."



www.hub-4.com/directory/6105

Free visit to RWM promises to make your waste work harder

Whether you are looking for a waste-to energy solution or want to find out what grants and funding might be available to help you to grow your recycling business, the Recycling and Waste Management Exhibition (RWM 10) taking place at the NEC, Birmingham from 14 to 16 September can help you to turn waste problems into resource opportunities.

Bigger than ever before, the three-day show features an indoor and outdoor exhibition of more than 500 companies and organisations exhibiting and demonstrating the latest technologies and recycling solutions. Entry is free and also gives visitors access to over 40 seminar sessions offering invaluable legislative and financial advice and first-hand case studies of successful public and private sector projects.

The programme in the Local Authority Seminar Theatre (sponsored by SCA Recycling and Bywaters) will cover food waste collection, recycling solutions for flats and reveal how councils are tackling commercial and industrial waste. In the Business Seminar Theatre a full day will be dedicated to carbon and cost reduction through minimising construction waste, and retailers can find out how packaging design and procurement can help them to achieve zero waste without sacrificing profits. Meanwhile energy from waste, wastewater reuse and carbon efficiency will be tackled in the Energy & Water Theatre (sponsored by Motherwell Bridge). Expert speakers have already been confirmed from

the London Waste & Recycling Board, WRAP, Glenigan, Arup and the BREW Centre for Local Authorities among others.

New features for 2010 include the Envirolink Pavilion which will showcase a range of companies from the region's recycling and waste sector. Worth £1,064 million, this sub sector includes facility operators, service providers, technology designers, builders and engineers; as well as a growing range of companies developing products containing recycled content.

Visitors can register online now for free fast track entry to RWM 10 and take advantage of the MyRWM Show Planner, a simple online tool, which creates a personalised floorplan of relevant exhibitors.

Gerry Sherwood, event director, RWM, said: "Green industries are thriving while economic and legislative pressures have made waste, energy and resource management more relevant than ever before. As a result our audience broadens every year. Last year's event attracted almost 10,000 visitors from across the public and private sector and hundreds have already registered for this year including representatives from county and city councils, Royal Mail, Morrisons, PriceWaterhouse Coopers, United Utilities and other blue chip companies. With an expanded exhibition floor, a number of new features and a great choice of free seminar programmes, we have made sure that a visit to RWM will offer you contacts, solutions, ideas and advice, whatever industry you work in."

For more information and to register for free entry visit www.rwmexhibition.com/epress2



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Tough Drives for demanding applications

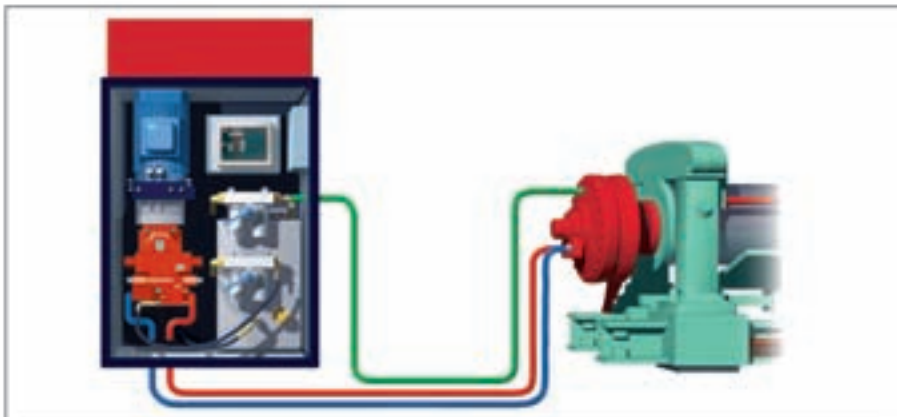
Hydraulic drives for recycling plant

Heavy plant requires reliable low maintenance drives and there is something very attractive about Hågglunds Compact drives that do away with the need of gearboxes and offer extremely effective performance on all types of heavy recycling plant.

Hågglunds now manufacture a very wide range of hydraulic motors, brakes, customized power units and controls which can be matched exactly to your needs. They are highly efficient, insensitive to shock loads and produce full torque throughout the variable speed range so starting up with heavy loads is no problem. They provide smooth controlled and responsive start, stop and reversing without having to oversize



Heavy drums can be driven by one or more drives sharing the load. This Bedminster composting Drum is driven by four motors. The pressure in the system inherently balances between the drives and a smooth efficient operation is assured. Hågglunds drives are also used on Digesters, Cement kilns, Sugar Diffusers and Trommels.



A typical Hågglunds 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.

the standard AC electric motor.

Hågglunds drives are simple shaft mounted and easy to install without foundations or alignment problems. They provide real benefits for applications like shredders, conveyors, roll

feeders and composting drums; with versatile mounting arrangements. The power unit can be positioned well away from the drive in a convenient place leaving a compact drive with minimal maintenance to do.



This Charles Lawrence shredder benefits from the compact drive from Hågglunds with up to 3 times nominal torque in forward and reverse which enables automatic reversing to un-jam rotors and keep production flowing optimising the functionality of all type of shredders. The low inertia also keeps forces within design limits and reduces wear, maintenance and downtime.



Car shredding plants are the ultimate heavy duty environment. Hågglunds compact motors are well suited for the vibrations and shock loads experienced on the roll feeders and the conveyors on this type of plant. Variable speed and full torque from start up brings high efficiency to these impressive machines.

Is the tide turning for marine aggregates?

Ross Matthews talks to Ian Selby, Marine Minerals and Dredging Manager at The Crown Estate, about developments in marine aggregates and the role of The Crown Estate.

The UK leads the world in marine aggregates and is about to enter a new cycle of business that through developing legislation, more efficient dredging and market opportunities, sets the scene for an increase in the sector's importance, with The Crown Estate playing an increasingly active partnership role with the industry.

Image reproduced courtesy of BMAPA

Today, approximately 21% of the sand and gravel used in England and Wales is supplied by the marine aggregate industry. In the south east of England, the hotbed of the UK construction industry, a third of its sand and gravel comes from the UK seabed. As the land owner of that seabed, The Crown Estate holds sole mineral rights. Having previously taken a rather passive role in the sector, it now seeks to partner industry as Ian Selby, Marine Minerals Manager, at The Crown Estate, explains: "We have a balancing act as we have a duty to enhance both the revenue and value of the estate but must also deliver value to customers. So we want to work closely with the industry as a partner working for its development together with government, regulators and agencies."

Coming from the industry, Ian's appointment itself is a sign of The Crown Estate becoming more involved. Trained as a marine geologist, Ian joined Tarmac over 20 years ago and subsequently worked abroad in various locations on dredging and reclamation projects. Most recently Ian has been operations director with Hanson Aggregates Marine. Ian believes this wealth of experience will be a great

help in developing partnerships with the sector.

There's a lot happening in the Marine environment at the moment, perhaps the most significant being the Marine Bill, which has received Royal Assent. Under the new Marine and Coastal Access Act, the government will have a duty to establish a network of Marine Conservation Zones to help protect threatened marine species and habitats. There's the Marine Policy Statement (MPS) that will bring together marine activities and clarify priorities, under the umbrella of sustainable development. Marine Spatial Planning is being introduced offshore over the next few years, which hasn't previously been in place. The Marine Bill also creates the independent Marine Management Organisation that will oversee marine planning and licensing with advice from its key advisors.

"With the added focus of the Marine Bill, we think the value of marine aggregates will become more consistently recognised. In the past it's has fallen between government departments. This is an opportunity to let everybody understand the role of marine aggregates in the future."

A lot of this value is derived from their source. Geologically, marine and land aggregates are exactly the same but, as Ian points out, "marine aggregates are very clean so there is very little waste in the process - no fines, no scrubbing or intensive washing. They are also well sorted and minimal crushing is required. In particular the quality of sand is very good, which often you don't find on land."

Tonnages of marine aggregates landed in the UK have remained pretty consistent over the last decade at around 25 million tonnes a year. Each year approximately 14m tonnes goes into England and Wales (1 m tonnes goes Wales) there are no landings in Scotland or Northern Ireland. The south east of England claims the most, with some 7 million tonnes landing in the London and Thames region alone. What does not go to the UK is exported to the near continent. Marine Aggregates are not only used in concrete. There's beach restoration, coastal defence and reclamation for port development, activities that typically claim between 1-4 million tonnes a year.

Often its production rather than market constraints that keeps



Image reproduced courtesy of BMAPA

tonnages flat; the current fleet of dredging ships is operating at capacity. However the marine aggregate industry is approaching a new business cycle. With current licences coming to an end and the ships built to correspond to those licenses getting older, both licenses and ships need replacing. "So the industry is gearing itself up to the next business cycle where it will be more efficient," says Ian.

Sustainability

There are extensive reserves of sand and gravel offshore arguably lying in less sensitive locations than on land. A question we could ask ourselves is "which is the most environmentally sensitive area - the English Channel or the lower Thames Valley?" asks Ian. "Of course there will be environmental impacts that have to be managed, but the marine option is particularly attractive as a result of the delivery of large volumes right into the centre of our coastal conurbations without any disruption of our daily lives. A ship carries 5000 tonnes while a truck carries 20 tonnes - this significantly minimises road use."

The new business cycle will be an important part of the sector's

sustainability plan. The current licensed area for dredging marine aggregates is approximately 1300 km², though 90% of dredging actually takes place within 48 km². Relicensing will see this area reduced and the new ships will mean that dredging will be more efficient.

Part of managing sustainability is ensuring that dredging stays within designated areas. "Many years ago the industry was accused of dredging in sensitive locations. However, since 1993 all the ships have been monitored so everybody knows where they are. Activity is, therefore, very tightly managed and each cargo is tracked."

The Crown Estate issues a production Licence area only if the operator is in possession of a Dredging Permission (DP) issued by the government through the MMO, a procedure which includes the submission of an Environmental Impact Assessment (EIA).

"The Crown Estate works with industry to report and improve sustainability performance whether as safe operating practices with munitions or a heritage protocol. In addition to this work with the industry, we are developing our own

sustainability plans that we hope will be formalised in the next year.

"In terms of carbon emissions, studies have shown that commonly carbon levels are not dissimilar to supply from land-based aggregates sources. Even so, there are significant opportunities for reduction of marine emissions in the future, mainly based around efficiency and use of plant."

When it comes to coastal defence or recharging a beach with 1 million tonnes of sand, such as in Bournemouth, there's no alternative to marine aggregates. It's also a resource for strategic renewable energy projects linked to climate change. Significant supplies of marine aggregates will be needed for any further development of the UK's nuclear power sector and the resource is also well placed for wave power barrages and offshore wind turbines. "So Marine aggregates can make a valuable contribution to renewable energy as well. On the evidence we see, the future for marine aggregates is a bright one."



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Hillhead returns

Hillhead, the biggest working quarry show anywhere in the world, came back from its sabbatical on 22-24 June and was welcomed with hot sunshine and ebullient activity on the stands.



Working demonstration areas in the Buxton quarry included a quarry face where large wheel loaders and excavators loaded dumptrucks from a 10,000-tonne rock pile and hydraulic breakers were used for secondary breaking. A rock processing area hosted a variety of screens and crushers are used to process material into single-size or graded products. There was also a recycling sector where over 1,000 tonnes of waste material was sorted, crushed, shredded, screened, and stockpiled into reusable aggregate or waste material.



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Hillhead



Volvo shows FMX, announces free telematics and a new partnership in the UK

Volvo Trucks showed three key, fuel efficient, Euro 5 certified, contrasting trucks from its range on the stand it shared with Volvo Construction Equipment (Volvo CE), the focus was the new FMX construction truck - seen in public in the UK for the first time. The range was represented by a 26 tonnes GVW, 6x6 all wheel drive, three-axle tipper. The FMX range has been purpose engineered for the construction industry. Also on the stand was a sleeper-cabbed Volvo FM 8x4 and a flagship FH16-700 6x2 push axle, 44 tonnes GCW tractor unit.

Volvo Trucks' managing director Göran Nyberg is confident that the company has a well structured total solution for UK and Ireland construction industry customers: "We can look after the needs of both machinery and truck operators in the construction, demolition, waste handling and recycling sectors. This fact puts Volvo Trucks in a strong position as the company aims to expand its well-established business within the construction segment....we can provide a total solution for on- and off-road construction work and have vast experience meeting our customers' needs." Göran concluded: "We already have a very strong position in the construction segment in the UK and Ireland with our present Volvo FM and FH16. With the new purpose-built Volvo FMX, and our optimised support for construction operations, we aim to grow our market share in this business significantly."

Volvo also announced that it will fit its remote monitoring (telematics) system on all larger machines as standard - along with a no charge



36 month CareTrack service subscription. Under the plan most newly produced larger machines (wheel loaders over 10 tonnes, articulated haulers, excavators over 12 tonnes, motor graders) ordered for CareTrack activated markets, will be standard equipped with telematics and delivered with a no charge, three-year CareTrack customer subscription. This will enable owners to enlist the full range of benefits available with remote monitoring.

Specifically for the UK market, Volvo Construction Equipment Division is also offering free fitment of CareTrack advanced with three years free subscription to all Volvo general purpose and production equipment manufactured in 2008 and 2009 when a Blue Customer Support agreement is entered into for a minimum of 12 months. Customers who already enjoy the benefits of a Volvo Blue Support agreement will qualify for free fitment of CareTrack advanced with a free three years subscription.

Volvo has also extended its partnership with Perlini Equipment to Volvo Group UK. "We are delighted to be able to announce this here at Hillhead 2010," said Nick Rose, responsible for business development in Volvo CE Europe, "as the Perlini products have been proven to plug the gap in the Volvo range to allow our distribution network to offer complete solutions to our quarrying and aggregate customers."

Maurizio Perlini, responsible for Perlini's commercial affairs, agreed: "From our point of view we now have a much wider access to the British market, and customers can now take advantage of an established and comprehensive after sales support network".

There are currently four models of rigid hauler manufactured by Perlini which will be available in the UK: the DP405, DP605, DP705 and DP905 ranging between 40 to 100 tonnes payload capacity. Under the agreement, these models do not become part of the Volvo range and retain their white livery and branding. A full after market support for the trucks will be provided by Volvo Construction Equipment's network of customer support centres, mobile and home based mobile engineers and the parts distribution network.



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Hillhead

15

Anaconda launch tracked screener

Anaconda Equipment International launched the company's first screener, the Anaconda DF410. The tracked screener offers three-way screening and stockpiling of a range of materials including demolition waste, crushed rock, sand and gravel, topsoil, compost, woodchip and coal. Features of the machine include a heavy-duty feeder complete with impact bed, heavy-duty belt, drop down end plate for direct feed from crushers, and variable speed belt control. The screenbox offers a range of screening media including woven mesh, punch plate, both for decks or finger screen option. The three integral conveyors come with hydraulic fold and variable speed control as standard.



The largest screenbox in the 'compact screening' class



The DF410 Tracked Screener

"Demand is once again the reason why we have diversified into the design and manufacture of the DF410," said sales director, Con Gallagher. "Our dealers are telling us that there is a limited supply of quality, well priced compact tracked screeners out there - we hope to have satisfied these needs with this product. The screener can be decommissioned and transported with ease on a low loader or shipped worldwide as it will track in and out of a 40 ft container without any breakdown. Orders are already in the book, which, in the current economic climate, is good news for us. We are excited and proud of what we have achieved with this product especially as it has the largest screenbox in the 'compact screening' class."

The UK and Ireland are still highly important markets for the range of equipment on offer despite the downturn, according to Con.

"The UK and, in particular, Ireland are still way off the pace they set a few years ago. Despite this, both markets offer Anaconda a great deal of opportunity now and in the future. We have already sold the first DF410 in Ireland and have been encouraged by the interest shown at Hillhead".



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Blue takes strategic position

As a main distributor for Powerscreen crushing and screening plants and Telestack conveying equipment, the Blue Group showcased these products in its display, alongside specialist recycling, shredding, soil remediation and washing plant and equipment. Working closely with its OEM colleagues, Blue strategically sited its stand to be adjacent to both Powerscreen and Telestack and a number of new

products are displayed and seen at work in the crushing, screening and recycling demonstration areas nearby. Such as Powerscreen's Warrior 2400.

Telestack International designs and manufactures conveying systems with both standard and bespoke ranges, the majority being mobile. The range includes: telescopic, tracked and three-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.

With the increasing emphasis on recycling and reclamation - from secondary aggregates to biomass fuels for power generation - Blue Group showed specialist plant and equipment for this burgeoning marketplace. Including a new Blue 620 trommel, a new generation Doppstadt 3060 Bio Power shredding plant, specifically designed for producing bio mass for power generation and the company unveiled a new CUB L Mix soil remediation and mixing plant, suitable for mixing of sticky, wet and contaminated soils.



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Sandvik launches its latest development in mobile scalping

Sandvik Mining and Construction made its first appearance at Hillhead as one company following the merger of Rammer into the Sandvik brand, and the acquisition of Fintec and Extec in 2007.

Sandvik's QE440 tracked scalper, received its global launch at Hillhead, to cater for the serious aggregate producer: it boasts 40% more screening area than its predecessor - the QE340. The stockpiling conveyors are both wider, and higher, to deal with both the increased production capacity and facilitate larger stockpiles.

Punched plate, heavy duty mesh, rock fingers or grizzly bars can be fitted to the top deck while heavy duty mesh or fingers can be fitted to the bottom to match specific application and material requirements. The QE440 comes complete with a more powerful, yet economical engine.

Applications include the screening of heavy overburden at a quarry face, pre-screening and scalping, recycling of construction and landfill waste and separation of cohesive aggregates.

Also new is the QI440 HS, a heavy duty, tracked, self propelled impact crusher with an on board re-circulating system, double and double deck screen to allow two screened products to be produced. Additionally, the oversize can be re-circulated back into the impactor, without re-handling, or the conveyor can be hydraulically rotated to produce a clean oversize product.

The independent pre-screen allows for maximised scalping prior to feed to the impactor, and can produce a screened product from the side conveyor. Customers can gain a greater return on their investment through the facility to produce accurately sized products for immediate use.

All conveyors are hydraulically foldable to speed transport and set up time.



www.hub-4.com/directory/296

DUO attracted a lot of attention on its stand with the introduction of the Powerscreen Aggwash. This new mobile wash plant brings together for the first time rinsing, screening, scrubbing and sand washing capabilities on a single transportable chassis. *"It's a single wash plant on one machine,"* said DUO director, Fintan McKeever. He added that it can be delivered as a single item on a low loader, simply dropping the legs on the floor on site, where it can be set up time is less than one day. Primarily designed for the processing of construction and demolition waste but equally suited to virgin material applications, the Aggwash can produce four grades of aggregate and up to two grades of sand at up to 60 tph. Electrically powered and delivered pre-wired, it lends itself to operations in built-up areas that are subject to noise or emission controls and is suited to any small to medium sized multi-site operator or contractors' fleet.

The unit gives operators to quickly and easily re-locate a complete wash plant operation,



DUO attracts attention with Aggwash

DUO's Aggwash received many visitors

avoiding duplication of machinery. Additionally the Aggwash allows operators to work in space and emission constrained sites because of its compact size and zero exhaust emissions.

Products that can be produced include ferrous metal, 0-5 mm sand, 5-10 mm aggregate, 10-20 mm aggregate and 20-40 mm aggregate. Polyurethane screen meshes can be easily changed to produce different grades of stone as required.

Fintan added: *"It was originally aimed at C&D markets but it can take virgin and hazardous matter also, giving it a wide range of applications, so we have interest from a variety of customers. The unit brings this ability into the price range of many companies."*



www.hub-4.com/directory/680

Finlay Hire signs-up for new Iona machine



Iona Airtrac 3200S at Hillhead 2010



Hubert Watson of Iona and Dave Statham of Finlay Hire

Iona Waste Systems joined forces with its new dealer Waste Processing Solutions (WPS) - the specialist recycling arm of the Finlay Group - to showcase the new Airtrac 3200 S

Dave Statham, a director of Finlay Hire

purchased the machinery, which was on display for the first time in the UK, at Iona Waste System's stand at the event.

The Airtrac 3200 S is manufactured in Northern Ireland and combines German technology from two companies - Hein Lehmann and Westeria - to deliver a mobile waste processing machine suitable for a range of waste sectors.

It is particularly suitable for managing small fraction fines clean-up, ranging from 0 to 50mm.

Dave Statham said: "We feel this machinery offers great opportunities for us in the hire sector. It can handle a range of applications, including construction and demolition, residual, commercial, glass, wood, compost and scrap metal.

"Ultimately, it will enable our customers to recycle up to 95 per cent of construction and demolition and/or construction and industrial waste material.

"The ability to convert a revenue stream from this type of waste will make this a sought after machine."

Hubert Watson of Iona Waste Systems, said: "We are delighted to seal this contract at Hillhead."

Dave told Hub that the unit was already attracting a good level of interest and was well suited to the hire sector that, with the banks still reticent in their lending, will be growth sector as the economy improves.



www.hub-4.com/directory/12463

Terex Finlay shows 694+ for the first time

On Terex Finlay's stand visitors to Hillhead saw for the first time the company's 694+ tracked inclined screen features a large 20' x 5' triple deck inclined screen giving a large screening area of 300 ft² 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.



www.hub-4.com/directory/305

Haulier ventures into quarrying industry



HD Ricketts Group is powering into new markets from its base at Weeford Quarry, with a new Terex Finlay 683 Supertrak three-way split mobile screen, recently supplied by Finlay Central.

The new screen is already proving a valuable and versatile addition at the West Midlands site - producing six sizes of valuable single-size material to complement the existing material processed from the quarry's static crushers.

A third generation Birmingham-based haulage business, which has supplied sand and gravel for decades, HD Ricketts moved into new markets after being licensed to operate Weeford Quarry - located on the A38 between Lichfield and Birmingham.

HD Ricketts, which has its headquarters in Erdington, is a major supplier of sand and gravel products in the West Midlands, employing 36 people, with a modern haulage fleet of 23 Volvo and DAF vehicles, comprising of 8, 6 and 4 wheelers and articulated trucks. The business also includes a dedicated bagging plant, located in Rugeley.

By being licensed to operate Weeford, the company now has complete control of its supply operations, from the quarrying of top quality primary aggregates, the washing and processing, through to bagging and delivery to clients.

Quarried materials from Weeford include building, concreting and plastering sand, washed and graded gravels and decorative gravels.

Adrian Ricketts, managing director of HD Ricketts, says: "As a haulage business selling sand and gravel, we decided that a natural progression for the business was to make our own sand and gravel product.

"It gives us the flexibility to deliver bespoke products, and supply exactly what the customer needs.

The Terex Finlay screen enables us to process a variety of single-sized material. The quarry was producing three sizes of product, but now offers 14 products.



"The screen delivers six of those, 6 mm, 10 mm, 20 mm, 40 mm, and 75 mm down to 20 mm. By producing more single size products the material is much more marketable and offers greater value. The screen is also fully mobile, with a remote control operation, to enable movement across the site.

As well as purchasing material processing equipment, we've also hired machinery as needed from Finlay Central and again found the service to be excellent."

This is the second Terex Finlay machine supplied to HD Ricketts by Finlay Central. Five years ago, the Group took delivery of a second hand Finlay 590 Hydra grid, which is used by Ricketts to make screened soil from excavation waste.

As well as the quarrying of materials and haulage business, HD Ricketts provides recycled products, including washed gravels, washed sands, blended sands, recycled MOT, graded top soil and crushed rock. It also provides JCB hire.

The sand excavated from the site is the deep-red, high quality material typical of the West Midlands quarries.

The move into quarrying is the latest diversification for the family business, now under the leadership of managing director Adrian Ricketts, the third generation of the Ricketts' family at the helm of the company.





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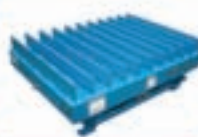
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FEEDING



Welsh Slate's new ground conveyor averages 300 tph

Canning Conveyor has supplied a new ground conveyor system for Penryn Quarry at Bethesda, near Bangor, North Wales. The quarry is the headquarters of Welsh Slate, which has been producing roofing slate since the 13th century and is one of four quarries in North Wales operated by the company, which has been supplying the world with high quality roofing slate and other materials for over 200 years. Turning over approximately £27 million per annum Welsh Slate is the world's leading manufacturer of durability and quality roofing products.

Canning was awarded the contract to design, manufacture and supply (under a rental agreement) a new ground conveyor and associated equipment including a steel tunnel.

The new 75 m long, troughed belt ground conveyor supplied is driven by a SuperDrive motorised pulley and can accept an average of 300 tph and a maximum of 400 tph of slate with an average size between 150 - 250mm.

The new ground conveyor runs over generally level ground (with an approximate rise of 2 m in total) part of which passes through a new 2.5 m diameter, 6 m long steel tunnel, which was designed to accept conveyor intermediate sections. As the tunnel is situated within a haul route Canning designed the tunnel to take up to 90 tonnes in weight (the equivalent of two articulated trucks, side by side).

Driven by a 630 mm diameter SuperDrive (partially ceramic) lagged in combi - red diamond the conveyor system included a high-tension bend pulley, jib discharge drum, loop bend drum and primary and secondary belt



scrapers. A discharge chute with integral crash box and hinged inspection hatch complete with all guarding completed the specification.

In addition to the conveyor installation Canning also re-sited an existing hopper/feeder all completed with the Christmas shutdown period.

Canning's SuperDrive motorised drum supplied for the new conveyor is supplied pre-filled with synthetic oil. No maintenance is required other than the recommended oil and oil seal change every 30,000 hours in comparison to the use of normal oil, which offers a service life of only 10,000 hours. Based on an 8 hour per day working week the motorised drum needs only one service approximately every 15 years.

The project was completed successfully and in the agreed time frame. Monty Williams, production manager, of Welsh Slate, comments that the order was *"delivered and completed to schedule, with excellent workmanship and high Health and safety standards."*



www.hub-4.com/directory/1715



More Nigerian success

Finedoor has supplied and commissioned a Cesan 200 tph asphalt plant for ULO Consultants in Nigeria. One of Finedoor's partners in the supply of equipment throughout the world, Cesan is a major manufacturer of asphalt plants and can offer mobile and stationary asphalt plants from 30 to 300 tph capacities. With low operating costs the 200 tph plant that was supplied for the project can be operated either semi-automatically or fully automatic by two personnel making it an ideal choice for the Nigerian project.

ULO is involved in major construction schemes, working on key government projects in Asaba, which is the capital of the Delta state. Recent contracts include the local airport, hospitals and government buildings. Having worked with Finedoor previously in 2005 the company had no hesitation in entrusting this latest contract with the Morley based company.



With extensive experience in quarry plant and equipment Finedoor's core business has been in the manufacture and supply of aggregate and asphalt screens. In recent years, however, Finedoor has widened its portfolio and the Nigerian project is the latest in a number of high profile contracts.

Working alongside local support, three Finedoor engineers built and commissioned a 200 tph Cesan asphalt plant for the Asaba project and supplied a complete range of relevant tools and containerised workshops.

Finedoor also sourced and supplied a 60t steel deck weighbridge complete with PC and printer from John McGuire & Son, one of the country's leading manufacturers of weighing platforms.

Following successful commissioning the plant was officially opened by the Delta State governor.



www.hub-4.com/directory/914

Lone worker solution for the quarrying sector



In Touch has now released the Lone Worker Alert System it was developing last year, as reported in Hub 11. The unit has been designed as an aid to health and safety for lone workers within the quarrying and construction sectors and to address the specific needs of the quarry manager,

There are a number of lone worker products on the market but In Touch says that few have been designed with the quarrying sector in mind. Many systems use the mobile phone network to communicate, however due to the very nature of the industry and remoteness of most quarries, mobile network coverage cannot be guaranteed and in many circumstances this type of lone worker system would not work reliably.

This solution is offered as a 'bolt-on' feature to an existing radio system. The lone worker carries a two-way radio, which has been programmed to emit a continuous tone every 20 minutes or so. If the worker is well then he/she simply presses a button to cancel out the signal, thus indicating that they are fit and well.

However, if the worker cannot respond due to accident or illness, then the radio will send a pre-recorded message to up to four pre-programmed numbers to identify that the lone worker alarm has been triggered.

The system isn't designed to give an absolute emergency response, however it can substantially reduce the health & safety risks associated with lone working. The system's reliability is enhanced by working in conjunction with two-way radios - a tried and tested method of communication that still the most effective solution for the challenging environment of a quarry.



www.hub-4.com/directory/435

Perfect planning prevents pathetic performance



“Budget, what ~~budget~~”, that is what most sales and marketing managers are now faced with when it comes to doing events and exhibitions. Gone are the days when you don't have to justify what your ROI might be when planning to exhibit at an event.

Calculating how you spend the last bit of your budget to make sure you get as much or even more for the following year is not even an option these days. But it is not all bad, because it has started to make people think about why they are even going to an event, and what the chances are of converting all the time effort and money into a return in sales revenue.

When I think of all the events and exhibitions we have helped are clients to deliver and how many times we have thought “ they haven't got a clue on how to make this work” are too numerous to mention. At last people are now starting to really think about every aspect of their event, not just the stand space, and design but the marketing, the staff training, and what are the key messages they want to get across to their potential clients.

Setting clear goals that are achievable is one of the most important ingredients when making a decision to attend an exhibition. This is something that we have always worked towards at Showplace. One of the first questions we ask our clients is “why are you going”, and secondly “what do you want to get out of the event” simple enough, but you would be amazed at the variety of answers that come back.

Showplace has always worked with its clients to ensure they are getting “best value” when planning their event or exhibition, making sure our clients get positive feedback from their event, reach their objectives, and exceed their ROI.

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Eagles undisturbed by noise at Oetelshofen quarry

Minimising environmental impact is a key concern of the management and staff of the Oetelshofen quarry company in Wuppertal, Germany. Formed in 1900, the company now employs 95 staff, produces 2 million tons of limestone products, and annually turns over 35 million Euros. But although they have experienced impressive growth over the last few years, they are keen to ensure that operations continue in an environmentally friendly manner as is possible.

To maximise its productivity but minimise environmental impact, Oetelshofen has invested in brand new firing technology, as well as recently switching to the latest in Sandvik wear protection. Moritz Iseke, joint managing director, explains: *"Our recent investments in equipment at the plant means that for the next 50 years the quarrying of high quality limestone at this site is safeguarded. When we have exhausted those resources the engineers will have to deal with quarrying below groundwater levels."*

Operational efficiency is not the only concern for the company as being proud Wuppertal natives the integrity and sustainability of the operation is of primary concern. In Moritz Iseke own words: *"Besides caring for our employees, we also feel committed to the natural environment, and consider it our duty to protect our neighbours from any emissions from the plant. This of course includes the reduction of any noise emissions."*

The company initially looked to Sandvik for assistance when lining the 6 m² feed hopper of a kiln. This was accomplished with Sandvik's WT7000 dual hardness rubber wear plates. The modular system was easy to install, and reduced the noise emissions by 50% as experienced by the human ear. Six months later the company management decided to equip the new 120 m² hopper, again with WT7000 rubber linings. The dual hardness structure of the linings made a great impression with the company management who were keen to enjoy the same benefits they had experienced with the kiln hopper.

A major challenge however was to choose the right material for the hopper, which has been designed to deal with an annual production capacity of 500,000 tons of limestone. The hopper requires a heavy duty lining as it will be loaded by a 60 ton capacity truck, with a product size of up to 140 mm.



Edgar Hörster, planning and construction
Oetelshofen Kalk; Selim Sahin, sales wear
protection Sandvik and Moritz Iseke, joint
managing director, Oetelshofen Kalk

After discussions between management and Sandvik technical staff, it was decided to use 1,500 pieces of 50 mm thick rubber liners mounted with welding studs. This has proved to be a particularly attractive solution as when the sharp edged stone has worn out the plates the individual 300x300 mm modules may be quickly, cost-effectively and safely replaced.

As the liners are made of dual hardness rubber, without any steel reinforcement, they are easily cut out and fully recyclable. Sandvik's project manager for the site installation, Selim Sahin, explains: *"Thanks to this patented modular system the base of the hopper is protected against cracks and deformation. It therefore retains its original shape, and the liner lip protects against fines infiltration between the gaps. In addition to those benefits, the service life is tripled. None of these features are achievable with conventional steel linings."*

Outlining some additional benefits to the neighbours of the quarry, Moritz Iseke proudly states: *"The quarry hosts the largest European Eagle Owl population in Europe. On average three owls per year are hatched at the Osterholz limestone quarry, and as the quarry operates only two shifts, these flying night hunters will be grateful to Sandvik for their peaceful rest during the day."*

Due to the success of the installation, the protection of the eagle owls and improvements in operational performance, Oetelshofen is now considering using Sandvik wear protection at the limestone quarry for all its future plans. Discussions are already ongoing at the site involving product and material testing, with new applications such as lining truck boxes or using ceramic / rubber wear protection liners - but not at the expense of the locals - human or eagle owl.



www.hub-4.com/directory/296

Refurbished drying drum proves efficiency for Tarmac



Tarmac has recently had a drying drum at its Bayston Hill site refurbished by BG Europa (UK) to enhance its operating efficiency.

Prior to commencement it was jointly decided by BGE and Tarmac that the safest method of works was to remove the drum for subsequent refurbishment within the workshop. This decision removed any potential hazards associated with extended working within the confined space of the drum in situ.

Over the Christmas period the drum was removed and transported to the BGE workshop in Ashbourne, Derbyshire for the replacement of the entire flight pattern.

BGE subsequently installed a modern flight design, which incorporated insulation flights in the dryer combustion zone. The efficient flights lift the material and hold it around the periphery of the drum, ensuring maximum exposure to the radiant heat from the flame. The remaining flights are

designed to provide an even veil across the drum in various densities depending on location. The veil exposes the aggregate to the combustion gases from the burner to initially dry and then heat the aggregate to the required temperature for asphalt production. It is important that the aggregate veil is even across the drum as if the veil is holed the combustion gases will take the path of least resistance down the drum, reducing drying efficiency.

The existing dryer was experiencing high levels of spillage from around the burner airplate causing operational difficulties. The drum manufacturer's design around this area was flawed; however a simple modification by BGE to the drum end plate has corrected the problem.

The dryer was replaced in the New Year in time for production requirements.



www.hub-4.com/directory/114

Haith agrees UK Distributorship with CBB

Haith Industrial has signed a UK and Ireland distributorship agreement with CBB, the Italian manufacturer of decanter centrifuges for the separation and treatment of the solid liquid process. Nineteen models in either two or three phase separation design are available with mechanical, fixed or hydraulic bowl/scroll variable speed transmission systems and with hydraulic capacity ranges from 5 to 120 m³/hr.

Available as fixed or mobile installations, CBB Centrifuges are suitable for quarry waste sludge de-watering as well as lagoon drainage and de-watering and recovery of solids. This latest addition to the Haith de-watering and processing plant portfolio is available for sale or hire.





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Massage therapy for bulk bag dischargers



Let's face it; there are some bulk bags of compacted or hardened material that really are beyond economic recovery? Yes, you can sometimes use stand-alone hydraulic breakers/bulk bag conditioners to split the contents into lumps but these devices are time-consuming, costly and hog space. In certain instances, they have been known to break bags open - spilling their contents. This is often because the contents of a bag have nowhere to flow during 'conditioning'. Spiroflow's experience is that around 95% of compacted or otherwise difficult to discharge bulk bags will succumb to the 'earth-quaking' treatment imparted by one, or more, of the integral, cost effective 'massagers' offered for their comprehensive range of Bulk Bag Dischargers/Unloaders. Of course, when installed on a Discharger, the massaged contents of the bag can commence discharge, improving the effectiveness of the massagers all the time.

Pneumatic powered 'Massage' Paddles are used to aid the flow of cohesive, sticky and otherwise difficult non-free flowing materials. Spiroflow offer three types of massagers: side massagers - these can be moved vertically to ascertain the optimum position but it is usually within the lower one third of the bag, base massagers break up material that has become compacted across the base of the bag and corner massagers ensure that maximum solid lump breaking forces are applied from opposite cross corners. It also ensures all four corners of the bag are truly emptied.

They work in two ways: one by 'earth-quaking' compacted or cohesive materials to break the bonds between particles - thus enabling them to flow more readily' and two: they push material from the extremities of the bag, where they may be supported by its flat bottom, to above the outlet spout where it has no option but to fall out of the bag.

All the time that this massaging and discharging is taking place, Spiroflow's patented spring support arms are stretching the bag and any liner vertically to ensure that no product is held up by folds in the bag or its liner.

Spiroflow can conduct trials in its test facility or at the customer's site to identify the right type of massager, or combination of massagers. The company can predict the correct set up for these trials that the customer can witness in person or via a live video link as preferred.

Because 'earth-quaked' lumps of product are not ideally suited for repackaging or further processing, Spiroflow also offers a variety of lump-breaker and sifting systems (which can also be an integral part of a Bulk Bag Discharger) to ensure that only material within the required specification is delivered to the packing or processing machine. Spiroflow also offers both mechanical and pneumatic conveying systems for the transfer of product to the next process.


Spiroflow has entered into a joint venture with Horizon Systems of Lawrence, Kansas, USA to create a company called Spiroflow-Horizon Systems to market Horizon's expertise in designing process systems for handling dry bulk materials throughout Europe.

Through a broad range of product offerings, Spiroflow-Horizon Systems will offer the full range of lean phase pneumatic conveying (pressure and vacuum). A Test Centre has been installed within the Spiroflow Technology Centre at Clitheroe, Lancashire to demonstrate the capabilities and benefits of their equipment to customers.

While there will be access to the full range of mechanical conveyors and bulk bag handling systems manufactured by Spiroflow, Spiroflow-Horizon Systems can design, project manage and install systems that not only include its own product lines, but also include processing equipment such as mills, mixers, sifters and micro/minor batching systems.

Steve Remmers, managing director of Spiroflow-Horizon Systems, commented: "We are excited to have this opportunity to work with Spiroflow. There is much synergy between the two companies with proven technologies that will bring benefits to customers in Europe. Spiroflow brings their well established European sales and marketing capabilities to the table, their expertise in the areas of ATEX and CE compliance and, also, an established base from which we can operate."

Spiroflow US based sister company, Spiroflow Systems has acquired Dynamet, a Michigan, USA based manufacturer of bulk materials handling equipment with more than three decades of experience in the industry.



With the acquisition of Dynamet, Spiroflow will shortly expand its range of equipment in the USA, Europe and beyond

Dynamet designs and manufactures a full range of powder handling equipment including tubular chain drag conveyors, flexible screw conveyors, bulk bag dischargers, manual sack tip stations, and pneumatic tilt tables for a variety of industries including food, chemical, pharmaceutical, packaging, and plastics.

With the acquisition of Dynamet, Spiroflow will shortly expand its range of equipment in the USA, Europe and beyond so that they will be able to offer one of the largest selections of conveyors and other powder handling equipment in the industry.

"We are excited about the Dynamet acquisition, the new equipment lines we'll be able to offer and the additional talent that their team will bring to Spiroflow," commented chairman, Michel Podevyn. He continued: "Bob Sutton, the founder of Dynamet, has over 40 years in the powder handling industry and is well known in the USA for his experience and knowledge."



www.hub-4.com/directory/786

Space pre-cleaner visual blade wear gauge



Flexco has added Rockline EZP-LS Limited Space Pre-cleaner to its line of conveyor belt cleaners. A compact version of Flexco's current offering of pre-cleaners, the low-profile design of the Rockline EZP-LS boasts the same quality craftsmanship, material path options, and visual tension check as the rest of the line. The EZP-LS also features an industry-exclusive visual blade wear gauge built into the tensioner, making it easy to check both tension and wear.

The Rockline EZP-LS is suitable for limited space applications, including brick and block plants, road/mobile equipment, sand and gravel, and any other applications with severe space limitations and pulleys as small as 6 in.

The 115 mm high EZP-LS blade has the same patented, faceted ConShear blade profile, allowing the blade to renew its cleaning edge as it wears. The blade can easily be serviced with the one-pin blade replacement feature. The unit also features the Material Path Option. Flexco pioneered the Material Path Option, which reduces the differential blade wear in the centre of the urethane blades. The option allows users to select the blade size that covers the belt's material path only, reducing the 'smile effect' wear pattern. Utilising a blade that covers only the material path boosts cleaning performance and extends the life of the blade.

Like the EZP1, the compact LST tensioner on the Rockline EZP-LS is self-contained and simple to adjust, making it easier to set the pre-cleaner to the desired tension and extending blade life. The EZP-LS, however, also contains a visual blade wear gauge.



Flexco's easy to read pointer shows when the blade is worn out.

"Flexco was the first to introduce a compression spring tensioner that could be visually checked, and we continue to innovate by enhancing the maintenance experience by including a visual blade wear gauge," said Ryan Grevenstuk, Flexco product manager. "The tensioner allows the user to not only check the blade tension, but also the blade wear with one quick review of the tensioner."

Belt maintenance and cleaning, along with the use of quality replacement parts, increases performance, extends the life of belt and conveyor components, and reduces downtime.



www.hub-4.com/directory/313

Pump delivers total life savings

Sand and gravel operations can achieve savings in total life cycle costs with new the Linatex G4 Rubber and Hard Metal Pumps, thanks to the design's combination of efficiency with abrasion resistance.

The Linatex G4 Rubber Pumps mark themselves out from conventional units by incorporating genuine Linatex Premium Rubber Liners, which maximise service life in abrasive slurry and chemical applications. The range features hydraulic designs, which reduce internal turbulence and minimise power draw, while offering ease of maintenance and serviceability.

The benefits of the range have been demonstrated in the field. In one example, a major sand and gravel operation challenged Linatex to cut overall operating costs within its coarse and fine sand slurry applications. After consulting with Linatex Engineers, the operation replaced a conventional 8 in., 75 HP pump with a new 8-in., 60 HP Linatex G4 Rubber Pump in its coarse sand application. In the fine sand application, a standard 6 in., 30 HP pump was replaced with a new 6 in., 25 HP Linatex G4 Rubber Pump. ►





Based upon 22,400 annual operating hours the new 8 in. pump delivered a 17.5% reduction in power draw over the conventional pump; while the 6 in. pump delivered a 43.75 % reduction in power draw over the standard model.

The second challenge was set by a large European waste recycling organisation, which required a replacement feed pump that could offer improved efficiency and performance. Linatex was asked to supply a pump that would feed at a minimum of 7 bar end pressure, ensure longer wear life at a reduced cost, backed up by reliable local support.

The Linatex G4 Hard Metal Pump HSN100 (with packed gland and expeller seal) was solution supplied in this instance. It delivers the fine, flocculated, thixotropic, abrasive slurry feed material from a sludge holding tank to the press.

Still in service, the Linatex G4 Hard Metal Pump has delivered over 12 months part life as opposed to the previous incumbent's pump, which only delivered a 6 month part life. In addition, the Linatex G4 Pump has delivered a saving of almost 70% on part costs.

The increased pressure that the G4 Pump has delivered, 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.

"With a long history of innovation supporting the development of the G4 Pump range, and demonstrable results in the field, we are delighted with the new range" says Bruce Cooke, General Manager Linatex Europe. "Our experience across the globe, coupled with the considerable knowledge that our team of experts here in Europe have accumulated throughout their time in the industry has resulted in a world class range of pumps, specifically suited to the market here."



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Reaching out to new sectors

Linatex is a major player in sand and gravel production industry and wanted to appeal to more sectors with new G4 range and significantly increase its share of the \$800m global market for Slurry pumps and spares. Europe and Russia account for 20% of this global market but hard metal pumps account for 75% of that market, so only manufacturing rubber limits potential as a single source supplier; Linatex wanted to get into more markets by having different pumps.

The Mk3 pump was essentially a facelifted Mk2. So in late 2007, Linatex partnered with a small UK manufacturer of hard metal pumps and saw the advantages of developing a new rubber pump to complement it using the same drive frame to improve efficiency. The Linatex design team in Asia and Europe devised a rubber pump that gives a power saving of 20% over the Mark 3 pump and other pumps in the sector.

The type of particle size determines the type of pump. For example, sand would use the G4 rubber while big particles such as smashed hard rock, would use hard metal pumps. With both options, Linatex now has a range that covers everything.

Applications include aggregate sand production and water treatment sand filtration.

While it has a premium price, Linatex rubber also has up to four times the life of normal rubber, which lacks the elasticity of Linatex rubber, which comes from its molecular structure gives Linatex rubber it's elasticity - it's soft and stretchy but also thick, which makes it great for pumps and gives savings over the lifecycle of the unit. Tests in slurry have demonstrated the difference.

G4-200 & G4-150 pumps were installed in late July 2009 on an existing Linatex sand classification and dewatering plant operated by Aggregate Industries, replacing Linatex LP111r pumps. The G4-200 handled 130 tph of -6 mm concrete sand while the G4-150 handled 37 tph of -1.2 mm Building Sand. Following a 9 month evaluation of the new G4 Rubber Pump, Duncan McIntosh the quarry operations manager of Aggregate Industries commented: "The new pumps have certainly met our requirements to reduce power consumption. At the same time, these pumps are so much easier and safer to work on. The levels of wear to date have been impressive compared to the old style pump."

Automated loading and weighing system for RockTron's 800,000 tpa PFA process

At a cost of £30m RockTron's new eco-mineral processing plant at Fiddler's Ferry, near Widnes, Cheshire is now fully operational. Designed to process 800,000 tpa of both fresh and stockpiled fly ash (PFA), this has immediate implications for the UK's cement and concrete industry in that RockTron can now offer a consistent supply of superior main constituents for cement and blended cements, which can outperform GGBS on price.

The environmental benefits are highly significant, as over 100 million tonnes of waste fly ash is currently dumped in long-term storage in UK landfills. The technology developed by RockTron is designed to process 100% of both fresh and stockpiled fly ash.

The company's proprietary process offers five valuable new eco-minerals; two of the most significant are aluminosilicate solid glass spheres classified as Alpha & Delta. It is claimed that these two cementitious products will provide the single biggest environmental opportunity for the cement and concrete industries to reduce CO2 emissions over the next 25 plus years.

The company has calculated that, in the UK alone, by using 500,000 tonnes of its eco-minerals on a one-to-one basis with CEM1 cement, some 400,000 tonnes of CO2 could be saved. RockTron Alpha fully conforms to BS EN 450-1:2005 + A1:2007, and in fact exceeds the highest standards on particle size fineness and very low levels of LOI (Loss On Ignition) - the carbon content.

The company's main aim is to demonstrate that its recycled materials can outperform on quality, durability and price, especially when applied in the cement and concrete industry.

RockTron commissioned Precia-Molen to design and install a fully automated loading and weighing system at the Fiddler's Ferry site, allowing vehicles to collect the eco minerals from the plant without the need for intervention of by operators. Precia-Molen integrated its GeneSYS system to RockTron business management system.

RockTron had four key criteria for the weighing and driver self-loading systems:

- Minimal staffing levels for vehicle control, weighing and loading operations.
- Fully integration with the existing RockTron sales order system.
- A robust and resilient system design to ensure 24/7 operation.
- To replace the normal out-loading procedures using a weighbridge.

To meet all RockTron's operation requirements Precia-Molen designed a bespoke GeneSYS3_based, weighing and site management system.

The three VS400, 18 m long surface-mounted weighbridges installed at the site allow vehicle arrivals 24 hours a day, receive despatch instructions, load, weigh and exit in an entirely automated operation. Precia-Molen also supplied a BT lorry loading weigher, which is believed to be the first of its type installed in the UK, with full Board of Trade approval; so avoiding the need to install a very long weighbridge and still maintain full driver operated control.

Precia-Molen provided a complete turn-key package incorporating all seven driver consoles, traffic barriers and traffic light control as well as the electronic arrivals message board. Additionally, Precia-Molen configured and installed all of the hardware and software for the system.

Operation:

All incoming drivers arrive at the cab height BI300 Driver Console, where via a dialogue display are asked to input a unique identification number, whereupon the GeneSYS3 system validates that the vehicle is an authorised user of the site and dispenses an RFID card to the driver.

This vehicle is then held in the lorry reception park and is updated via the electronic message board display. Once a loading point is available the vehicle is invited to proceed to the entry barrier and console where the driver presents his badge, the barrier opens and he is directed to the loading point. ►



Once the vehicle is positioned on the weighbridge, under the loading point, the driver leaves the vehicle and proceeds to the self-loading driver console where the driver is prompted to present the RFID card with GeneSYS3 confirming that the vehicle is at the designated loading point correctly positioned on the weighbridge.

After recording the tare weight of the vehicle, GeneSYS3 interrogates the vehicle file to verify the actual tare weight comparing it with the tare weight of the vehicle kept on the file, ensuring there is no existing product in the vehicle. On the commencement of loading there is a real-time interaction between GeneSYS3 and the plant PLC control. This interface ensures safety interlocks are observed and provides clear instructions to the driver. The system also uses two-stage loading to ensure vehicles are not overloaded.

If the vehicle has been directed to the BT loading station a similar process is initiated; once loading starts there is again real-time interaction between GeneSYS3 and the plant PLC control that ensures safety interlocks are observed. However at this station the driver is asked to slowly drive forward as his target weight increases, as displayed on by the remote display.

The driver console prompts the driver to re-present the RFID badge and once the gross vehicle weight is recorded the driver proceeds to the exit driver console and presents the RFID card where it is retained and the despatch documentation is produced. The traffic barriers then open and the vehicle leaves the site.

As part of the installation Precia-Molen also supplied 4 FX belt weighers, which help RockTron monitor the effectiveness of the production process through communication with the plant PLC via a ProfiBus DP network.

The inclusion of the BT weighing infrastructure within the system has provided key benefits for RockTron as the BT loading station represents a substantial saving on civils costs, eliminating the preparation of a weighbridge foundation in excess of 24 metres in length.

The BT weighing infrastructure comprises a fully weighed conveyor and is connected to the chassis by two articulations placed along the feed centre line, supported at the opposite end by one or two strain gauge cells.

These instruments are for trade use Class 1 and perform the same functions as a weighbridge or a hopper scale and are ideal for installing in confined spaces as the total length is only 4500 mm in length with a height of 400 mm.

Precia-Molen's system operates 24 hours a day, assisting RockTron's long term goal of increasing capacity by encouraging the movement of product at night. The GeneSYS3 system can handle increased production levels whilst maintaining low staffing levels and the system will expand to match RockTron's requirements as it looks to grow over the coming years.

John Bance, director of operations, comments: *"The Precia-Molen loading and weighing system has proved itself in operation at our Fiddler's Ferry plant. Close collaboration between Precia-Molen and RockTron has enabled us to deploy a fully automated loading system which meets the needs of our customers and hauliers while providing the detailed load management information we require to run our business efficiently."*



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Sandvik Equipment Powers AR Diversification

A Leicestershire-based demolition contractor has diversified into the recycled aggregates business following a large investment in crushing and screening equipment from Sandvik Mining and Construction. With its sights set on material quality over quantity, AR Aggregates (a newly-formed division of AR Demolition) has also become the UK's first non-quarry operator of a four-way split Sandvik QA450.

AR Aggregates, the specialist recycling arm of respected demolition contractor AR Demolition, has taken delivery of a new Sandvik track-mounted mobile crusher and a pair of Sandvik track-mounted mobile screens. The QJ340 crusher and QE340 and QA450 screens form the backbone of a new aggregates recycling operation that marks a significant diversification for AR Demolition and that breathes new life into a previously run-down materials recycling operation lurking behind a thriving scrap processing yard close to Leicester city centre.

Best Equipment for Best Results

AR Demolition has a well-earned reputation for doing things that little bit differently; of taking things a little bit further; of punching above its weight. Despite being a relatively young company, AR Demolition's track record on personnel training, for example, is second to none. Each of its impressive and well-maintained fleet of Volvo hydraulic excavators and wheel loaders bears the familiar pink ribbon emblem as a constant and

public reminder of the battle with breast cancer fought by the wife of co-director Richard Dolman. And the purchase of the new Sandvik crushing and screening equipment in general and the QA450 in particular, underlines the company's determination to be different.

"We could have just bought a second-hand crusher and screen and been content with producing a 6F2 product, but there are plenty of other companies doing that. We wanted to be unique in this area," explains co-director Andrew Thompson. *"We have, therefore, invested in the best possible equipment to ensure that we can provide our customers with the best possible materials."*

Well Equipped

The home of AR Aggregates is a 0.6-hectare area that sits above and behind the AE Burgess scrap and waste processing facility and where AR Demolition has been a customer for many years. *"When the previous incumbent announced that he was leaving, AE Burgess approached us and asked if we would be willing to take it on,"* recalls Richard Dolman. *"We had been considering a move into the recycling field for some time but the thought that we could work alongside an established contact like AE Burgess just polarised things for us and we leapt at the opportunity."*

The company took up residence in December 2009 and, under the direction of newly appointed manager Darren Thompsom (Andrew's brother) immediately set about rejuvenating the facility. A 2,000 m² area of the site



was concreted to help minimise winter mud and summer dust; a set of new Portakabins complete with a viewing platform was installed along with a new on-site fuel tank; and a new Volvo L110 wheel loader with on-board weighing and a Volvo 210B excavator from the company's demolition fleet arrived on site and set about cleaning up the various stockpiles of material.

Competing with Quarries

While the site was being laid out to Thompson and Dolman's specifications and in accordance with WRAP protocols, the two set about identifying the most appropriate crushing and screening equipment for their needs. *"The QJ340 (formerly the Extec C-12+) largely chose itself. The hydrostatic drive means that it can operate in reverse, ideal for applications like ours where asphalt may be present. It is the industry standard and we have hired them dozens of times over the years,"* Dolman insists. *"But we really had to do our homework on the screening equipment as this would ultimately determine the consistency and quality of the recycled products we'd be able to produce."* ►

Following extensive trials, demonstrations and factory visits, and with the guidance of Sandvik representative Adrian Fletcher, Dolman and Thompson ultimately chose the Sandvik QE340 and QA450. *"The decision to work with Sandvik was based partly on the expertise and help given to us by Adrian Fletcher and also on the fact that their factory and European parts stock at Swadlincote is just 40 minutes up the road, extremely useful if we ever need spares in a hurry,"* Thompson says. *"Our decision to purchase the Sandvik QA450 was driven by our determination to compete with local quarries with a range of recycled products that are of as consistently high quality as virgin aggregates."*

The Sandvik QE340 incorporates a large 4.7 x 1.5 metre screen box for optimum productivity in a wide variety of materials. The QA450, meanwhile, has a pair of 3.05 x 1.52 metre screen boxes that are individually driven and actuated to allow greater control over the output material.

Comprehensive Range

That range of products includes a 6F2 <75 mm grade; a <40 mm Type 1 equivalent; a 75 to 40 mm clean product that is ideal for applications including piling mats; 20 and 10 clean fractions; and a 0 to 5 mm dust that is already proving popular with local authorities seeking pipe bedding material. *"Very few recycling companies are able to offer this breadth of products and I think we're unique in offering a high quality dust product,"* explains Dolman. *"We have already been visited by the local authority, Highways Agency and the Environment Agency, all of whom have given us their seal of approval and all of which are now potential customers."*

In addition to these customers, AR Aggregates is already drawing skip and demolition waste material from a 40 kilometre radius and production is gradually ramping up. However, the company has little interest in pure tonnages, preferring to concentrate on supplying a consistent, high quality material. *"We probably have the capacity to produce 1,000 tonnes per day of a 6F2 product but there are plenty of other companies already doing that,"* Thompson asserts. *"We would prefer to concentrate on creating a product that is a genuine alternative to virgin aggregates in a variety of applications."*

Dolman and Thompson readily admit that the formation of AR Aggregates represents the group's largest single investment and that it has taken place during a time when the entire UK economy is in recession. But the pair remains optimistic about the prospects for their fledgling operation. *"We are based close to Leicester city centre so we can offer local demolition companies an ideal alternative to noisy and dusty on-site crushing and screening. We are working closely with AE Burgess, a company with an excellent reputation. And we have built our entire operation in accordance with WRAP protocols,"* Richard Dolman concludes. *"In addition, we are using high quality Sandvik equipment to produce a high quality product for high-end customers. We are setting a new local standard."*

Complete ALLU Product family

ALLU launches in Bauma a complete D -series that includes models for 4 - 45 tonnes base machines. The new D -series also includes models with changeable blades in addition to the fine screening models launched last year. With ALLU D -series you can screen, crush, mix, and stabilize different materials. ALLU presents its products at inside stand Hall B3, stand 323 as well as outside stand N914/1, where live demonstrations are also organised.



ALLU Pioneer before others

During its over 20-year-history ALLU has brought new ideas and technologies to the market by listening to its customers very carefully. As a pioneer of the screener crusher technology ALLU has spread the awareness of this new working method. The technical characteristics of the product and new innovations have convinced customers worldwide.

The new ALLU D -series includes all together 37 different models for 10 - 45 tonnes excavators and 4 - 30 tonnes wheel loaders. There are three (3) different frame options: Basic, Strong and Heavy Duty. The correct model will surely be found for each application. Strong frame and patented fender plate against dust are just few of the innovations ALLU has developed for the new series. Also worth paying attention to would be the easy usage of the ALLU products and strong power transmission.

Modifiable from one jobsite to another

With the changeable blades, the characteristics of the machine can be easily modified according to the task at hand. Machine equipped with drums with changeable blades can be modified to work from one job to another, no matter whether the job is screening top soil, screening and crushing demolition waste or aerating compost.

Excellent fine screening results and high capacity can be achieved with Disk in Disk technology without the crushing effect. The efficient power transmission and advanced structure enable the handling of one scoopful of material with one start-up and without any back and forth rotation. For end product fragment size either 15 mm or 25 mm can be selected.

With stabilisation drums mixing and aeration of different materials that are extremely wet and sticky can be done easily and quickly.

New Pressure Feeder for Stabilisation

The new ALLU PFM (Pressure Feeder Mobile) is presented at ALLU outside stand F9/N914. The new PFM is designed for feeding dry binder and is built on a trailer to ensure easy transportation from one job site to another. The new ALLU PFM is excellent for feeding two different powders, so not only is it a feeder for stabilisation projects, both Mass and Column equipment, but it can also be used as a mobile powder blender, for many other industries.

In addition, the system has two 10m³ tanks, powerful engine and capacity to stabilise up to 150m³/h with a maximum feeding distance up to 200m from the feeder. The more powerful engine, compressor and flexible controlling technology also make the ALLU PFM suitable for feeding column stabilisation piling rigs.

The new GipoCOMBI RC 130FDR mobile crushing plant makes a further impression in Wales

Following the supply of a GipoCOMBI RC130FDR mobile crushing and screening plant to Lafarge - Ewenny Quarry in Bridgend, South Wales in late 2009,

Aggregate, Processing and Recycling Ltd of Tamworth the UK and Northern Ireland GIPO distributor has recently sold a further machine to the Cuddy Group for immediate delivery. The machine which will be commissioned in August will produce single size aggregates whilst being operated as a primary & secondary crusher. The system will process high tonnages of "as-blasted" limestone into 0-5 and 5-25mm aggregates.

The GipoCOMBI RC130FDR which was exhibited at the recent Hillhead show is a heavy duty, highly efficient machine of compact design which is driven by a Caterpillar C15 engine supplying 430kw in total, allowing 380kw + to be applied to the crusher. Featuring a dual-zone blockage release system, the variable speed P130 impact crusher allows maximum variance on output grading; all gap adjustments are hydraulic and crusher inlet + top apron have hydraulic lift for blockage reduction.

A variable speed feeder supplies material to a 2 deck pre-screen with scalping at 0-40mm and crusher bypass facility. Crusher discharge is catered for with the provision of a tray feeder as standard to absorb impact and protect the conveyor. Final screening of material is performed by a 4.5 x 2 metre - 2 deck screen incorporating a 25mm aperture top deck and a 5mm aperture bottom deck.

To ensure optimum dust suppression the machine is fitted with a system including an on-board water pump which supplies spray bars at the crusher inlet / outlet and also to all conveyor heads.



Additional features include aluminium covers on all conveyors, plus walkways and maintenance platforms around all relevant parts of the machine for easy maintenance.

The GipoCOMBI RC130FDR has significant advantages over other machines as it utilises a system of combined crushing and screening in closed circuit, achieving maximum efficiency. With fuel consumption significantly lower in comparison to a separate crusher and screen, the machine also has the advantage of a much quicker set-up and movement times than when aligning two separate units.

Other major advantages include the reduction of loading and stockpile clearing activity. Once material is fed into the GipoCOMBI it is contained within the machine until the process is complete, hence no extra work, or fuel usage on loading shovels handling oversize stone back to the hopper.

Maintenance is well catered for as the machine has only one engine and not two, and features less conveyor belts overall than the combination of a separate crusher and screen, resulting in less risk of downtime and lower service costs.

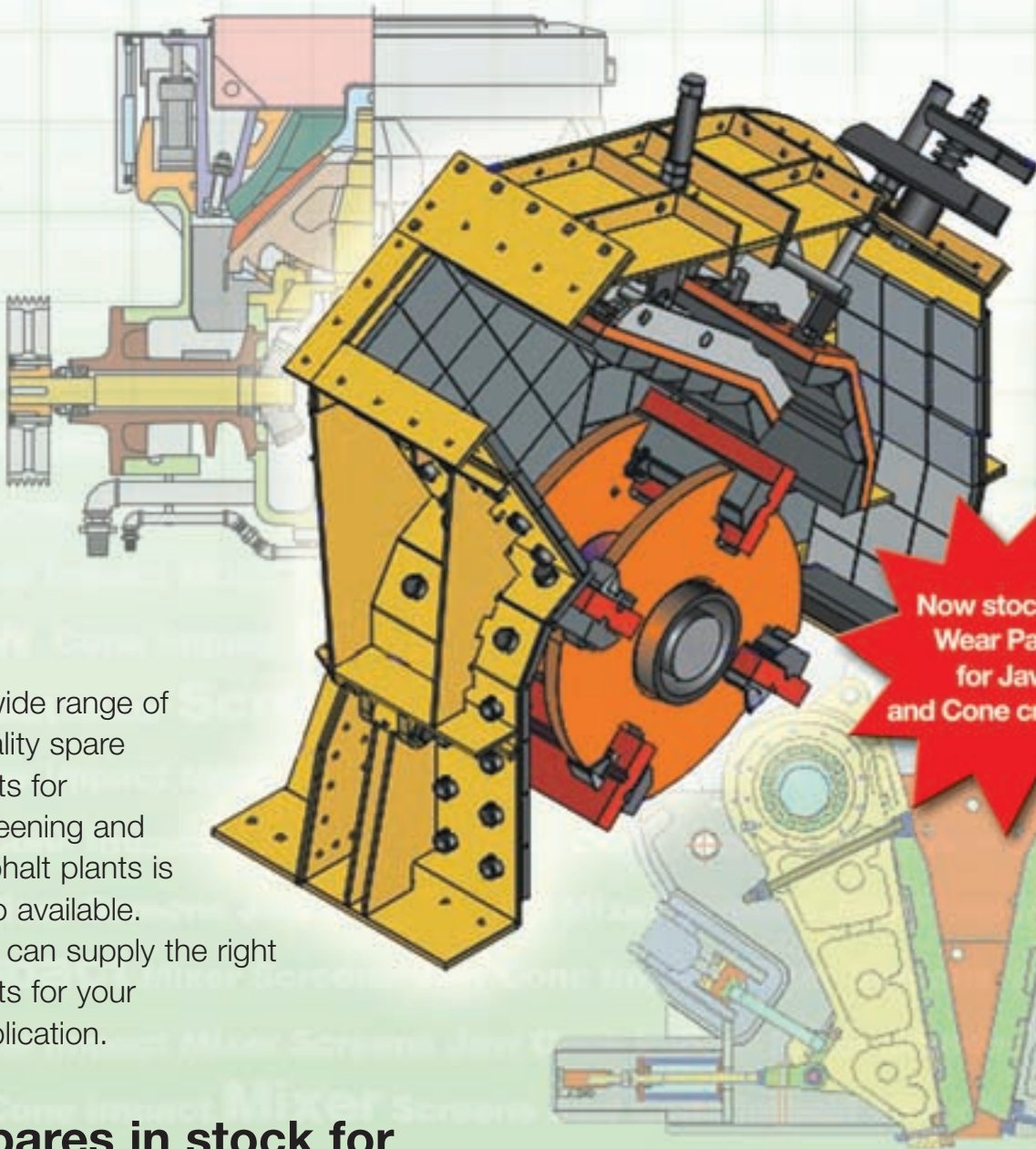


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BJD Crushers on a roll at Buxton Lime

BJD Crushers has recently supplied Tarmac Buxton Lime & Cement with two of their latest design of Double Roll Crushers. The crushers, installed at Buxton Lime & Cement's Hindlow and Tunstead sites, are employed in the production of high purity quicklime which is used in industrial applications such as steelmaking and the manufacture of concrete building blocks.

Tarmac Buxton Lime & Cement is the largest producer of lime and high quality lime products in the UK and installation of the two BJD crushers is part of a major investment by Tarmac which includes the recent commissioning of a new Maerz lime kiln at Tunstead.

The BJD Double Roll Crushers are 75x75 hydraulic drive models, one fitted with toothed rolls and the other with smooth rolls. The robust units are particularly suited to the reduction of friable materials such as limestone. The crushing action takes place at the nip-point between the two rolls, with the roll gap setting being fully adjustable for a variety of product sizes. At Buxton Lime & Cement, the units operate round-the-clock producing 330 tonnes per day of lime from a feed of lump 40mm limestone.

Burned lime is elevated from the kiln to the crusher house and then into a vertical in-feed arrangement, that spans the full width of the rolls, ensuring even distribution of feed to the high chrome rolls. An important feature of the BJD Double Roll is its unique automatic protection device which protects the crusher against un-crushable material by automatically opening rolls, allowing such material to pass - the rolls then automatically re-set to the original gap setting.

"The BJD Double Rolls are performing to expectations", says Ian Andrews, Tarmac's Project Manager. "In fact, everyone at BJD Crushers has performed well throughout the whole process. From the outset, they were willing to carry out a series of trials, which we at Tarmac witnessed, using a rolls test machine to determine a machine specification that satisfied our precise product requirements."



Korroflex crusher backing compound ideal for use in cold climates



The use of effective crusher backing compounds and release agents is critical to enhancing the life of crushing equipment used in the quarrying and mining industry. Impact and shock vibrations can cause significant damage when in service unless the right compound is used. One company has an impressive track record in this area and its products are recommended by many of the major crusher manufacturers.

In some parts of Europe changes in climate have seen winter temperatures plummeting to all time lows and protecting equipment has become more challenging for maintenance personnel. In response to this, ITW Korroflex developed a crusher backing compound that is enabling quarries to continue crushing problem-free. Many users in areas of Northern Europe and Russia have experienced benefits from using Korrobond 90 because it cures and performs well at very low ambient temperatures.

The product is a polyurethane-based crusher backing product and when cured produces a tough flexible backing. It requires no pre-heating and pours at temperatures as low as 32 deg F (0 deg C). It is a solvent-free product, gives good compressive and flexural strength, minimal shrinkage and will provide the same impact strength as white metal. It can be applied by personnel with the minimum of training and is designed to be used in both cone and gyratory crushers.

IS 14001 CERTIFICATION

ITW Korroflex is part of a major global chemicals company. It specialises in the design and manufacture of epoxy and polyurethane crusher backing compounds used in cone crushing machines within the quarrying and mining industries worldwide. The company's European manufacturing site in Shannon has recently been audited by the BSI and awarded the ISO 14001:2004 certification.

NEW BROCHURE

For more information about the range of Korroflex products or to obtain a copy of the company's new brochure contact ITW Korroflex on 0870 458 7388 and visit the website at www.korroflex.com





Anaconda Launch Tracked Screener

Anaconda Equipment International has just launched the company's first screener at Hillhead 2010, the Anaconda DF410. Anaconda has quickly established itself as a leading player in the design, manufacture and sale of a wide range of mobile conveying (wheeled and track mounted) solutions around the globe and now adds a new dimension for dealers and end users. The DF410 is a compact yet productive 'work horse!'

The DF410 is a robust and versatile tracked screener offering 3-way screening and stockpiling of a wide range of materials including demolition waste, crushed rock, sand & gravel, topsoil, compost, woodchip and coal. Features of the machine include a heavy duty feeder complete with impact bed, heavy duty belt, drop down end plate for direct feed from crushers, and variable speed belt control. The screenbox offers a range of screening media including woven mesh, punch plate, bofor decks or finger screen option. The 3 integral conveyors come with hydraulic fold and variable speed control as standard.

The DF410 has been designed by Anaconda with focus on quality, price and containerisation - the same focus that goes into all Anaconda products. Sales Director, Con Gallagher, gives some insight into the reasons behind the move into the mobile screening arena:

"Demand is once again the reason why we have diversified into the design and manufacture of the DF410. Our dealers are telling us that there is a limited supply of quality, well priced compact tracked screeners out there - we hope to have satisfied these needs with this product. The screener can be decommissioned and transported with ease on a low loader or shipped worldwide as it will track in and out of a 40ft container without any breakdown. Orders are already in the book which, in the current economic climate, is good news for us. We are excited and proud of what we have achieved with this product especially as it has the largest screenbox in the 'compact screening' class."

Anaconda displayed the DF410 tracked screener at the Hillhead exhibition in Buxton, England. As Mr Gallagher concludes, the UK and Ireland are still highly important

markets for the range of equipment on offer despite the downturn:

"The UK and, in particular, Ireland are still way off the pace they set a few years ago. Despite this, both markets offer Anaconda a great deal of opportunity now and in the future. We have already sold the first DF410 in Ireland and have been encouraged by the interest shown at Hillhead. The Hillhead show was an excellent opportunity for us to showpiece some of our products and to meet new and existing customers to discuss the benefits of working with us. We believe that the show will help imbed our reputation further as a manufacturer of top quality screening and conveying products."

Whatever the future holds for Anaconda Equipment International, you have to admire the total dedication they have to building the brand worldwide. The speed at which they have been setting down footprints across the globe in appointing dealers is a clear indication of their efforts to becoming a significant force in the industry.



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- ▶ The **NEW** triple deck 20' x 5' (6.1m x 1.525m) screen box with full catwalk access is the largest and most accessible in it's class.
- ▶ A combination of quick wedge tensioning, convenient access holes, and hydraulic tensioning on the bottom deck ensure mesh set up and change out times are kept to an absolute minimum.
- ▶ 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 (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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RHEWUM supplies screening machine to German oil mill

In April 2010 RHEWUM GmbH gained an order for construction and manufacturing of a screening machine for company Oelmuehle (oil mill) Broekelmann which is producing amongst others in Germany, the well known oil brand Broelio.



Due to the natural high moisture content rape seed is a relatively hard to screen material. Being aware of this, extensive tests were performed at RHEWUM's testing facilities before defining a machine type and size. Furthermore the machine is lined with a food compliant wear protection to protect the parts of the machine against the very strong rape seed.

After a construction manufacturing time of only 2 months the delivery of the machine was foreseen for the beginning of July 2010, with plans for the start up during the course of July.

About Rape Seed

Rape seed is a very important economical agricultural crop, belonging to the family of Brassicaceae to which also mustard plants and cabbage belong to. The rape, respectively rape seed, is mainly used for the production of cooking oil and fuel as well as the so called rape cake as a by-product. The rape cake is mainly used as rich and albuminous animal feed.

About Broekelmann

Ölmühle Brökelmann is situated in Hamm/Germany and producing several kinds of cooking oil for private and industrial customers within Germany, as well as the well known brand Brölio.

Approximately 1.000 t/day of various seed oils are processed in the plant. First the seed is cleaned, then milled and pressed in screw extruders. Two thirds of the oils are produced this way whilst one third is made by extraction. By this combination of milling and extraction as by-product, albuminous pellets are produced which are used for high quality animal feed, such as cattle, pig and chicken breeding.



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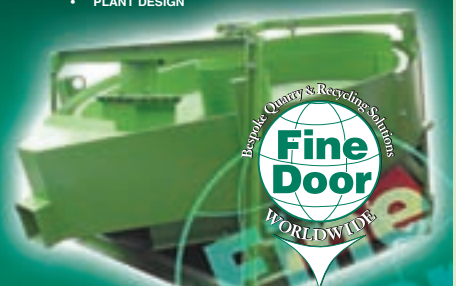
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Birth of a Crushing Icon for Precision Screen

Precision Screen proudly introduces, the Precision Screen Track Crush VSI. Precision Screen is the first company in the world to build a Tracked Vertical Shaft Impactor that can comfortably handle in excess of 300tph. Built and designed in Australia by Precision Screen R&D team, headed up by Managing Director Harold Kerr, this machine has been a major success in the aggregate making process throughout Australia. The Precision Screen Track Crush VSI is working in some of the harshest conditions to produce the best shaped stone around.

Precision Screen is an innovative manufacturing company with extensive experience in the industry (22 years) and is a supplier of world leading crushing and screening equipment.

Precision Screen finds their innovations from clients within the industry by speaking to them on a one to one level to uncover common issues they are faced with.

One area of need has been the production of material which meets the exacting specifications of its customers (i.e. shape of stone). Stage 4 crushing, in aggregate manufacturing is becoming more and more important, and is the key to a top quality product. With such a large volume of mobile crushers and screens in the market place; it only seemed like a matter of time before the market demanded a VSI on tracks to better shape their material. This is how the Precision Screen Track Crush VSI crusher came about.

Precision Screen embraced this challenge some 9 years ago in 2001, producing the first ever tracked VSI crusher using the Barmac (8100) crushing chamber. Back then the demand for this type of machine was still quite low; however Harold Kerr and his team saw the potential for a high production rock shaping aggregate crusher. This first unit had some very unique features, making it stand out way before its time. This machine proudly boasted:

- The first Mobile VSI on Tracks
- The first Tracked VSI to produce 250tph consistently
- The first to provide a machine that can walk at a workable speed 2.5k proportional control
- The first Hydraulically Driven VSI
- The first to use Hydraulic Levelling Tracks with walking beam style
- The first to have an adjustable discharge height on the tail conveyor to suit other machines in circuit and lowers to 900mm for servicing
- The first to provide ample capacity to allow the engine to run at 1730rpm (for best fuel economy at full hp) while the crusher runs at up to 1800 rpm

The self levelling feature has proven to be an invaluable part of the machine as you can position the machine dead level anywhere on the quarry floor ensuring a balanced crusher at all times. It also helps eliminate any unwanted stress in the chassis. Some 9 years later Precision Screen still boasts this as a main feature.

From this earlier model, the machine has evolved into a world class unrivalled Mobile Vertical Shaft Impactor using the latest crushing technology.

A lot has been learned from the earlier models and each one has been improved upon to the stage

Precision Screen is today. Such improvements included greater horse power and available hydraulic power, along with new style crushing chambers that better compliment mobile machines.

The outcome today is a 350tph machine with maximum fuel efficiency and power using the best technology in the market. ►

Precision Screen recently launched the first ever tracked mobile SANDVIK MERLIN VSI (CV118). Previously Precision Screen has used the Barmac crushing chamber, but has changed from this to the latest Sandvik MERLIN VSI as it offers superior crushing advancements. With the Hurricane Rotor in the CV118 VSI chamber coupled with an astonishing 350KW of Hydraulic power available, this crusher is sure to remain unrivalled at the top of the list for some time.

Precision Screen has worked closely with its customers to design and manufacture a high quality, market leading machine which effectively meets the customers' needs and is miles ahead of the competition. The Precision Screen Track Crush VSI:

- Uses the best Crushing Chamber and technology Sandvik Merlin CV118
- Hand built with the Precision that is accustomed to our company

- Cat C15 engine which provides 350KW of hydraulic power
- VSI rotor speed hydraulically adjustable by engine rpm- for maximum fuel efficiency
- Sauer Danfoss Control system monitoring crusher speed
- Self levelling track system (under carriage)
- High Capacity machine well in excess of 300tph
- Extended tail conveyor
- Proven machine that has been working in the market place for over 9 years

Given its outstanding performance, the Precision Screen Track Crush VSI is the only machine for the high end operator, wishing to ensure that their product meets certified specifications.

The era of the mobile VSI has arrived!



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Outstanding performance from the new Powerscreen® Pegson XA750

Powerscreen, one of the world's leading providers of mobile crushing, screening and washing equipment, has launched the Powerscreen® Pegson XA750 offering customers greater jaw crushing productivity at up to 750tph (827 US tph).



The Powerscreen® Pegson XA750 is one of the most technologically advanced and efficient jaw crushing plants on the market; it sets the standard for next generation heavy duty track mobile jaw crushers. Pat Brian, Powerscreen Global Sales and Marketing Director said "The Pegson XA750 has been designed to ensure that large scale end users and operators experience unmatched performance, reliability and productivity in the toughest of applications."

The Pegson XA750 is fitted with a hydraulically driven pan feeder and live pre-screening unit, complete with a bolt-in cartridge style grizzly section, to remove fines and sizes prior to crushing, avoiding packing and unnecessary manganese wear. Pre-screened material can be stockpiled via an optional dirt conveyor, or re-directed via the by-pass chute onto the main product conveyor.

An unrestricted feed opening of 1400mm x 820mm (55"x 32") prevents bridging and maintains a consistent feed to the powerful Terex WJ55 single toggle jaw crusher, which features a hydraulic closed side setting (CSS) adjustment

system that can be changed at the touch of a button for maximum control of product sizing.

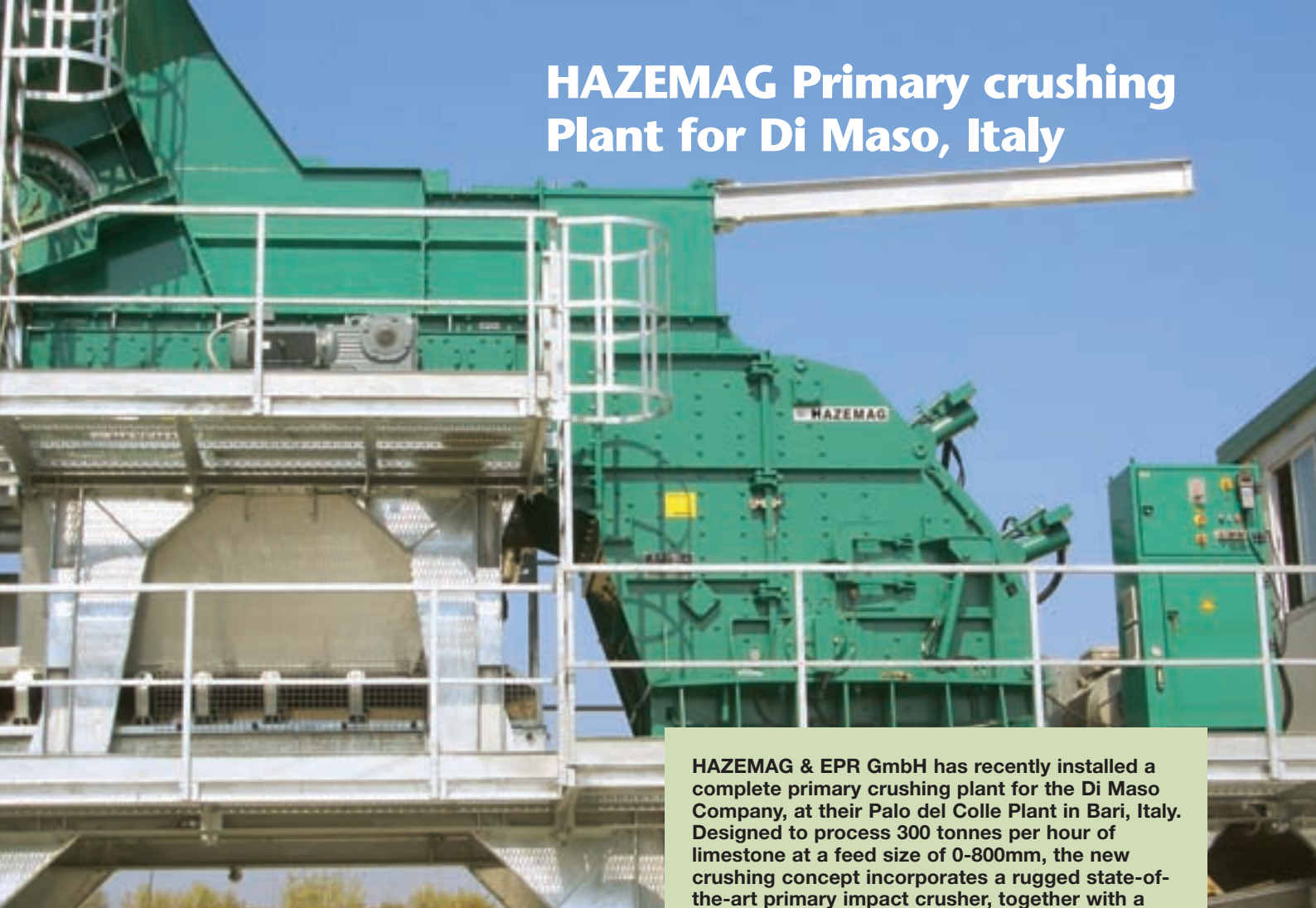
Powering the Pegson XA750 is the latest generation 288kW diesel engine which uses a direct drive system to achieve superior power transmission and fuel efficiency versus hydrostatic systems. Engine power is transmitted to the crusher via a robust, self adjusting dry plate clutch with self regulation "push button" auto start up sequence and v-belt drive.

User benefits include a hydraulically adjustable product conveyor with a 4m (13' 1") discharge height, a modular hopper that can be removed for transport and two speed tracks for maximum site mobility. The product conveyor can be raised and lowered hydraulically during operation and for transport and maintenance purposes. Maintenance downtime is reduced thanks to a hydraulic draw back rod retention system and unrivalled under crusher access. The plant weighs 72,000kgs (159,000 lbs), including magnet and dirt conveyor.



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HAZEMAG Primary crushing Plant for Di Maso, Italy



HAZEMAG & EPR GmbH has recently installed a complete primary crushing plant for the Di Maso Company, at their Palo del Colle Plant in Bari, Italy. Designed to process 300 tonnes per hour of limestone at a feed size of 0-800mm, the new crushing concept incorporates a rugged state-of-the-art primary impact crusher, together with a wobbler feeder.

The HAZEMAG AP-PH 1414 impact crusher is equipped with the very latest active hydraulic control system, which locks the impact aprons in position during operation, to guarantee a uniform, high-quality product. However, on entry of any tramp metal, the aprons retract immediately, allowing uncrushable material to pass through. The aprons then return to their pre-set position. In addition, the impactor's inlet plate can be moved hydraulically to facilitate the release of any jammed material.

As well as an excellent standard of operational safety, the AP-PH 1414 is extremely user-friendly and machine maintenance is simplified; readily accessible blow bars, with a wedge retaining system, can be removed quickly and easily, and around 90% of wear lining plates used in the housing are identical and interchangeable.

Upstream of the Impactor is the HAZEMAG Wobbler Feeder which removes fines from the feed material. This process relieves the load on the crusher, leading to reduced power consumption, a lower wear rate and superior operational safety. The wobbler feeder's efficiency is not affected by moist or sticky material and, due to the horizontal flow system, the height of the installation is minimised. In this particular application, the material is screened off at 50mm, providing consistent, smooth and controlled feeding.

For further information on the subject of this release, please contact Tom Gregson, Sales Manager of Hazemag UK Ltd, using the details shown above.

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Crushers UK launch new **HERCULES 1830** Mobile Crusher



Crushers UK are a team of highly skilled, dedicated employees with an in-depth knowledge of the crushing, recycling and specialised precision industries.

We operate out of a new compact industrial building in Leicestershire with over 300,000 sq ft of secured yard, equipped for rapid prototype machining. We use the latest high technology CNC HAAS vertical machining centre to produce component parts for our own Hercules 1830 jaw crushers as well as spares for all major brands of crushing, screening and recycling equipment.

Following over 2000 hours of research and design, Crushers UK has launched the Hercules 1830. This brand new tracked jaw crusher has been both designed and built in Britain.

The Hercules 1830 will specifically appeal to demolition contractors, waste

recycling companies and quarries. Its compact design ensures it can be easily moved on a low loader and set up on-site in minutes.

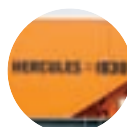
With a jaw size of 18" x 30" (550mm x 800mm) the Hercules offers an average output of 120 TPH based on a CSS of 100mm. It's powered by a John Deere 100kw diesel generator as well as connecting directly to 3-phase mains electricity.

Buying a Hercules 1830 is just the start of your relationship with Crushers UK. We offer a worldwide servicing, spares and support package to ensure your machine time is optimized and your profits are maximized.

Even if you own other types of crushing, screening and recycling equipment, we can supply spare parts and specialised engineering solutions to support your operation.

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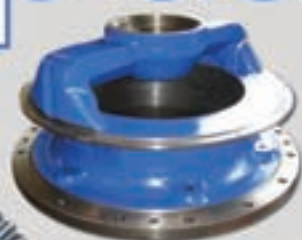
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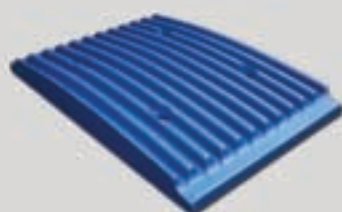
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Get the best from your assets

Most operator's mechanical equipment on sites has been procured from a variety of manufacturers over years of operations. The operating instructions and site knowledge may have been lost over the years but simple maintenance and overhaul techniques can be used to maximize the life of the asset and minimize the total costs. As company who manufacture replacement screens, refurbish existing machines and maintain screens I thought I would write down some of the common issues we see within the industry and some simple solutions.

1. Roller/Ball Bearings all need regular lubrication. Bearings on screens are operating in one of the harshest environments and the key to the screen operating efficiently and effectively is ensuring the bearings receive enough lubrication with the motto being "little and often" with a little being 2 - 6 shots per day per bearing dependent on size. Vibrating screen bearings generally need lubricating with a Lithium based grease whereas other plant bearings normal EP grease is fine. As plant managers it is worth checking that fresh grease is visible on grease nipples during walk-arounds. Oil lubricated screens need to have the oil regularly checked for contaminants by taking a sample and getting it analysed by your lubricate supplier to determine the life of the lubricant and the state of the bearing. More automated solutions for both grease and oil lubricated screens are available which can dramatically reduce the maintenance time plus give the site manager piece of mind that the bearings will only fail when they reach the end of their useful life but there is an initial capital cost (for the unit, for installation and potentially integration with control system) and also power cost.
2. If you have indications that the bearing is about to fail such as increased heat, noise or amps required, managers should schedule the bearing change as soon as possible as the potential damage caused by a total failure can increase the repair bill by a factor of 3. Changing Bearings in screens can be difficult if you have not done it before or don't undertake it regularly. Ideally bearings should be pressed out of the housings using a hydraulic press which will minimize the chance of damaging the housings and the shaft. Before installing new bearings the existing area should be cleaned to remove any debris and degreased. The bearing should be pressed in to the housings being careful to ensure that the alignment of the bearing is correct as misaligned bearings will fail quickly plus damage housings and shaft.



When reassembling the remaining components of the shaft assembly it is key that the correct torque settings are used and that the maintenance engineer checks that the shaft assembly is able to rotate prior to testing under load.

3. Changing from woven wire to modular polyurethane screen media is often done when a second hand machine is utilized on a quarry to replace an existing machine. It is key when you do this to have the deck frames modified or replaced as the deck frame construction is generally different for both screen media's. Unfortunately we have seen machines with cracked side plates and broken deck frames within weeks when the screen has been modified to go from woven wire to polyurethane
4. Support Structures - Vibrating screens should vibrate the load going over the screen decks not the entire screen house or screen structure. Causes of high vibration in structures can be as simple as the springs have reached the end of their useful life and need replacing. Other simple causes can be bolts coming loose in the support structure or parts of the support structure being removed following overhaul and not being replaced. The high residual vibration can cause damage to the screen itself and/or cause damage to the support work. During regular walk-arounds attention should be paid to vibration in the flooring or hand railing to see if there has been a change

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Flex-Mat® 3 For Modular & Tensioned Screens Increases Screen Capacity & Material Throughput While Reducing Downtime

Candiac, Quebec, Canada - Flex-Mat® 3 High-Performance, Self-Cleaning Screen Media from Montreal-based Major Wire Industries Limited helps operations increase screen capacity and material throughput while reducing downtime. Available for modular or tensioned screen decks, Flex-Mat 3 panels have more open area, providing up to 30 percent more screen capacity than woven wire and up to 50 percent more screen capacity than polyurethane and rubber panels. It employs independently vibrating wires that increase product throughput by up to 40 percent over traditional woven wire or polyurethane panels by increasing open area and eliminating any blinding, pegging and clogging. To date, Flex-Mat 3 is operating in more than 20,000 applications worldwide.

Some aggregate producers are switching to larger screen boxes to gain added capacity. For example, woven wire users have switched from 5' x 16' to 6' x 20' screen boxes, while some modular panel users have expanded from 8' x 20' to 8' x 24' or even 8' x 26' screen boxes. Typically, producers can gain the same or more capacity by trying Flex-Mat 3 first and save up to \$50,000 or more in costs associated with purchasing larger screen boxes.

For tensioned screen decks, Flex-Mat 3's signature lime green polyurethane strips align to the screen box's crown bars and hold individual wires in place as they run from hook to hook. Wear life exceeds that of woven wire up to three times because there are no cross wires with high wear spots like there are with woven wire. On modular screen decks, Flex-Mat 3's modular panels install easily, similar to traditional polyurethane and rubber panels. On both screen types, Flex-Mat 3's wires vibrate independently to better separate material, virtually eliminating blinding, pegging or clogging. This minimizes downtime spent cleaning or replacing screen cloth, increasing production time. Flex-Mat 3 is the ideal screening solution in many applications, including aggregate, mining, sand & gravel, aglime, C&D recycle, coal, slag, talc, asphalt, top soil, salt, mulch, industrial minerals and green waste.

Flex-Mat 3 provides benefits on every screen box deck: eliminating near-size pegging on top decks, producing cleaner retained product through the middle decks and preventing fine material blinding on bottom decks. On modular screen decks, Flex-Mat 3 modular polyurethane panels can replace existing screen media on each deck wherever throughput is compromised or can replace the entire deck for maximum production.

Flex-Mat 3 tensioned is available in the industry's broadest range of opening sizes-30 mesh to 4 inches-and with the widest range of application-specific wire diameters, enabling Major Wire to fine tune each screen's production to its greatest potential. Wire configurations include a diamond-shaped Flex-Mat "D" for most standard applications; wave-patterned Flex-Mat "S" for removal of fines; triangular Flex-Mat "T" for heavy scalping or fine screening; and Flex-Mat "Double-Wire" for high-impact applications.

Celebrating more than 125 years in business, Major Wire Industries Limited designs, manufactures and markets screening solutions, including Flex-Mat® 3 High-Performance, Self-Cleaning Screen Media in tensioned and modular versions; OptimumWire/E woven tempered and stainless steel wire cloth;



and polyurethane panels for the quarry, mining, recycling and industrial markets. Major Wire is ISO 9001:2008 registered. For more information, contact Major Wire Industries Limited, 225 North Montcalm Blvd., Candiac, Québec, Canada J5R 3L6; telephone: 450.659.7681; fax: 450.659.5570; e-mail major@majorwire.cc or visit www.majorwire.cc.



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