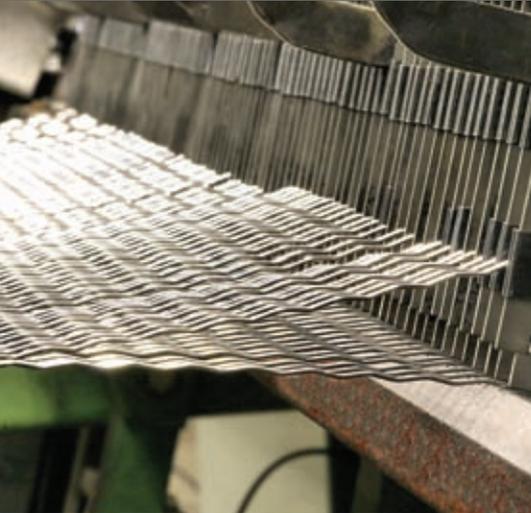


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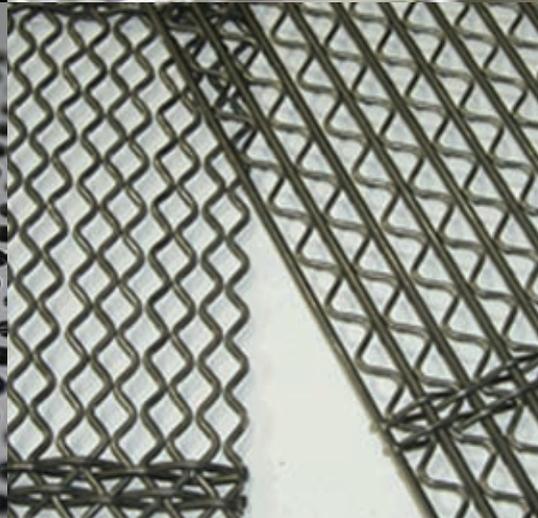
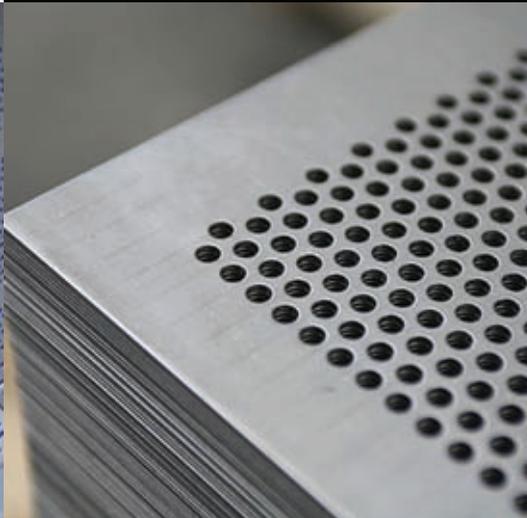
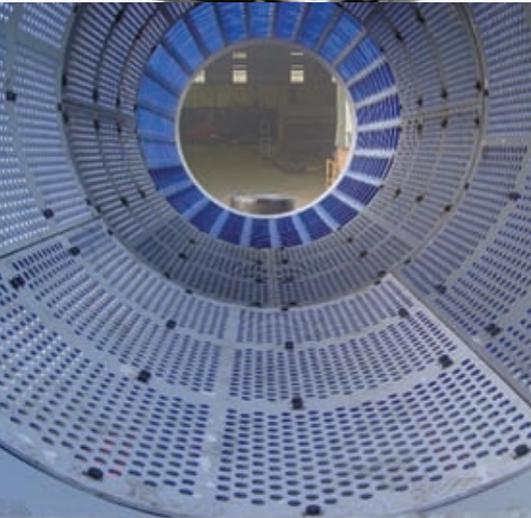
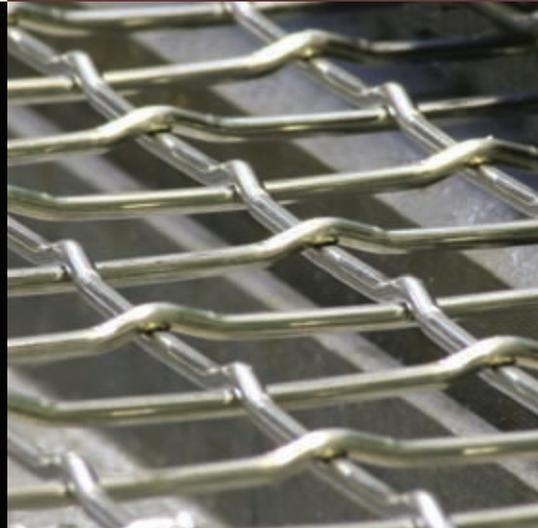


# CRUSHING & SCREENING FOCUS



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## Councils Compact Trommel Screen Solution

A Local authority in the UK has chosen an Ultra T-1500 trommel screen for their green waste recycling operation in Northern Ireland.

As part of a new initiative, Coleraine Borough council have began diverting green waste from landfill not only to establish an environmentally friendly culture by using the material in its new composting operation, but also to help generate revenues by providing a high quality screened compost material to the local public and contractors at a fee.



Head of Maintenance and services Jonathan Wilson decided to choose the Ultra Trommel Screen after some careful consideration.

*"We had a look at a range of mobile trommel screens presently offered on the market, and decided to go with the Ultra T-1500 Trommel. We are spending public money on this job, and we have to consider the best quality and value equipment. The Ultra trommel Screen ticked all the boxes. Our staff at our green waste recycling facility are very satisfied with its operation and quality compost production on site"*

Ultra Plant International Ltd are experiencing great success in the UK and internationally, and are looking forward to the RWM waste and recycling plant show in Birmingham this September.

Ultra Plant International now has trommel screens available for Demonstration throughout the UK and Ireland.

**To view a trommel working on your material, contact the team at Ultra Plant on 02887 747582, or view videos and images on the website [www.ultraplantltd.com](http://www.ultraplantltd.com)**



[www.hub-4.com/directory/11776](http://www.hub-4.com/directory/11776)

## BMH Technology choose BJD Crushers

A Finish company, BMH Technology Oy, who specialise in turn-key solid fuel power plants, have recently installed two BJD Hammermills at a newly built combined heat and power plant (CHP) in Poland. The new mixed fuel plant owned by global paper and packaging producer Stora Enso, generates on-site power for the company's Ostroleka pulp mill located in northwest Poland.

The BJD 24x20 Hammermills fulfil a primary boiler feed coal sizing duty at a combined rate of 50 tonnes per hour, achieving a product size of 95% minus 8mm and 90% minus 6mm from an in-feed of up to 80mm. The crushers are constructed of heavy plate steel, with heavy-duty renewable liners, and are fitted with a screen arrangement to match the duty. Mounted on a base frame, the modular packages comprise Hammermill, fully guarded drive arrangement and electric motor.

BJD Hammermills provide high capacity crushing with high reduction rates and are recognised worldwide as reliable, efficient machines for size reduction of friable and fibrous



materials. They are part of a complete range of processing and recycling equipment from BJD Crushers Ltd, which includes Impactors, Double Roll Crushers, Mud Hogs, Flexmills and Flextooth Crushers.



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# 'Is Feidir Linn' 'Yes we can'

**Aughey Group has established itself as one of the main suppliers in the manufacture and supply of screening media to the quarrying, pits, mines and recycling industry in Ireland and the UK.**

Headquartered in Monaghan, Ireland, at the Aughey Screens site. Aughey Group offers all media screening solutions in the form of wire screens, from woven mesh to flexi and from slotted mesh to speed harps. Welded mesh to perforated plate, polyurethane to rubber mats. The expansion of the business to incorporate two more renowned companies in the UK, being Multimesh in St. Helens and Potter & Soar in Banbury, means that the Aughey Group are in an ideal position to offer invaluable advice to customers on every type of screening solution available.

The addition of both Multimesh, and Potter & Soar, has enabled the Aughey Group to open up to an endless array of products, for various industries to include automotive meshes and Electro-polished baskets for pharmaceuticals.

Multimesh, which began as a welded mesh manufacturer in stainless steel, is now one of the UK's largest and most high profile producers of both standard and non standard stainless steel mesh panels.

In Banbury, Potter & Soar manufacture and supply everything from fine wire cloth to world renowned architectural mesh which can be viewed in many famous buildings worldwide and features regularly on Channel 4's Grand Designs.

With such a diverse range of products to offer their customers, the Aughey Group has acquired a first class understanding of the various industrial needs and demands of their customers. Taking this into account they are closing the gap on greater customer satisfaction and enhanced product durability and productivity.

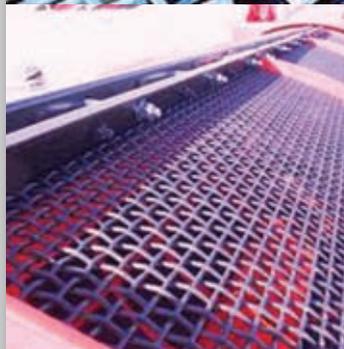
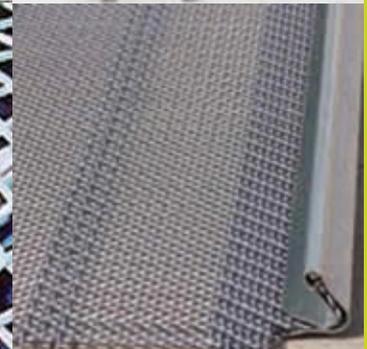
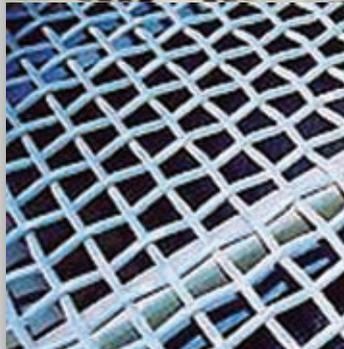
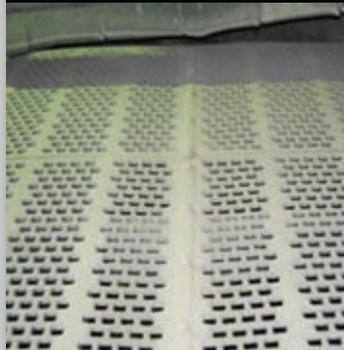
With co-ordinated logistics from both sides of the water, the Aughey Group can offer next day delivery on screens available from stock in both the UK and Ireland.

While the production of wire screens for the extraction and process industry has always been an area of expertise for the Aughey name, a large focus has now been placed on recycled materials, which now account for more than 20% of the aggregates used in the UK, a percentage which is set to rise steadily over the coming years. With this in mind, the Aughey Group have undertaken the task to produce the highest quality products available at the most competitive rates available on the market. Including finger decks, rod blocks and grizzly decks.

Each product produced by the Aughey Group is closely monitored at every stage of production in order to ensure that the customer receives an unsurpassable quality product.

This high standard of product and service has seen Aughey Group export as far as Australia and West Africa on a regular basis as well as diamond mines in Russia and filter manufactures in Bangkok.

While striving to meet customer demand, the Aughey Group is always looking to raise the Industry bar in order to produce previously unknown peaks of performance and efficiency within their product range. Aughey Group hopes to announce new ventures and distributions networks in the next quarter.



For more information, please visit our website at [www.augheygroup.com](http://www.augheygroup.com) 'Is Feidir Linn'  
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## HAZEMAG Clay Crushing Plant for Vietnamese Cement Plant



HAZEMAG 250 tph Clay Crushing Plant at Bim Son Cement Co, Vietnam.

**HAZEMAG has supplied a complete clay crushing plant to the Bim Son Cement Co. for a new cement plant in Vietnam. The installation includes a double-rotor hammer crusher, designed for a throughput rate of 250 tph which is fed by an apron feeder.**

To enable HAZEMAG engineers to determine the optimum crushing solution, extensive tests were carried out in the HAZEMAG test centre and it was determined that the best blend of raw material would be a mix of 50% weathered and 50% un-weathered clay. A HAZEMAG 1400 x 1200 HDS type hammer crusher, with installed power of 2 x 195kW was specified to achieve a product of 99% < 60mm with a maximum feed size of 650mm (one edge length).

The installation employs an apron feeder, fitted with infinitely variable speed control, which draws the clay feed material from a hopper, conveying it directly into the crusher. The HDS type crusher has two 1.4m diameter disc-type rotors coated with wear-resisting, welded hard-facings and fitted with rows of swing hammers which are suspended between the discs of the rotor, and able to swing freely through 360 degrees. Crushing takes place between the counter-rotating rotors and a centrally located anvil and the crushed clay then passes through openings in grate baskets located underneath the rotors. The distance between the hammers and the grate baskets can easily be adjusted, and the gap spacing of the grate bars determines final granular size of the product. The heavy duty vee-belt drive system, with a high mass moment of inertia, enables the crusher to handle even the largest rocks whilst maintaining peak capacity, and without affecting the rotor's performance.

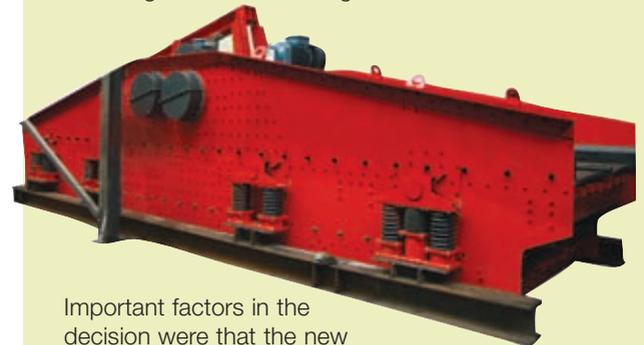
Of particular significance is the 'easy-to-service' design of the crusher. Hammers are easily changed or turned using a hydraulic hammer bolt removal tool and a special lifting device. Large maintenance doors provide easy access to all crusher internals. The grate frames, complete with grate baskets, are mounted on assembly carriages which can be completely withdrawn from the crusher housing.



## Tema (Machinery) Ltd celebrates 50th Anniversary with the biggest ever single order for screening machines

**Mountsorrel Quarry, owned and operated by Lafarge Aggregates, and one of the largest granite production sites in Europe, has reached an agreement with Tema (Machinery) Ltd for the supply of 12 new double deck screening machines which will be manufactured by Siebtechnik GmbH in Germany.**

All screens will be 2.7 m x 10m in size, and will replace an existing installation based on GEC equipment, which has been in operation for over 20 years. The screening plant had a capacity in excess of 2,000 tph. One of the main duties is the manufacture of track ballast used by Network Rail, with a large range of premium aggregates produced for asphalt and concrete used in many construction projects in the Midlands and the South East, including the M25 widening.



Important factors in the decision were that the new screens needed to fit into the existing space, and Tema / Siebtechnik offered a design which complied with this including additional other significant design benefits such as a Pod bearing supported drive system and an innovative support structure for the electric motors.

The very close co-operation and levels of service provided on an earlier installation supplied by the Tema / Siebtechnik Group was also a decisive factor.

For both organisations this contract marks significant milestones in each Company's history as 2011 brings up the 50th anniversary of Tema (Machinery) Ltd, whilst Mountsorrel Quarry will celebrate an amazing 200 years of operation.

This order award brings the number of screens supplied / to be supplied by (Tema Machinery) to Lafarge Aggregates in the past 12 months to 17.

Tema (Machinery) Ltd is part of the Steinhaus group which consists of over 40 companies, and employs a workforce of around 2,000 people worldwide.



# INTRODUCING THE **NEW** FINLAY 863 HEAVY DUTY SCREEN

The NEW Terex® Finlay 863 mobile tracked heavy duty screen is a compact and aggressive forward facing screen. This flexible and mobile plant can work in aggregates, sand and gravel, top soil, construction demolition and recycling applications where site space is at a premium. The fully self-contained plant can be hydraulically folded and ready for transport in less than an hour making it the ideal machine for contract screening. The plant has the capacity to process at a rate of up to 250 tonnes per hour and can be fed either by a tracked mobile crusher or an excavator.

## Features:

- ▶ Aggressive screen box can accept bofor bars, screenharps, woven mesh, punch plate and cascade fingers.
- ▶ Screen box angle can be hydraulically adjusted to an angle between 14° to 18°.
- ▶ Screen box discharge end can be hydraulically raised 500mm to facilitate efficient and easy media access and changing.
- ▶ Oversize conveyor angle can be hydraulically adjusted from 15° to 24°.



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# Instant attraction

The bane of any demolition contractor is how to crush rebar products cleanly for separation and then reclaim the steel economically. Middlewich based Dig A Crusher (DAC) have invented a Hook Lift Magnet unit, which could be the answer to every recycler's dreams.

As an advocate of Dig A Crusher products, Mark Bryan, MD of J Bryan (Victoria) asked the company if they could come up with a simple, efficient and economic machine based on his idea, to separate steel out of concrete C&D waste.

"Using a conventional mobile crushing plant is expensive, needs two operators, two fuel loads and is prone to jamming and damage when processing rebar waste. The concrete has to be fairly clean before it goes into a crusher, otherwise the jaws get jammed, or worse, the steel goes straight through and wrecks the belts," said Mark. "

"We took a completely different approach, and used a DAC 1200 hydraulic crushing bucket fitted to an excavator to recycle the rebar waste. The operator simply drops all the crushed waste into the Hook Lift Magnet unit, which then automatically separates out the clean steel



and leaves me with a pure crushed concrete product at the same time, " said Mark.

The 7.5 tonne unit is small enough to fit onto a low loader and can process 100t/hour, easily keeping pace with the DAC 1200 loading bucket. The 1200mm wide belt leads onto an adjustable conveyor, which allows for a 50 tonne stockpile. Using the hook lift at the front, the magnet unit can be moved around the site by fitted rollers. Powered by a 30Kv 3 phase diesel generator, the magnet effectively separates the metal products out of C&D waste fed into a large capacity hopper at the front. The unit can be operated remotely, thus avoiding an operative on the ground and the subsequent H&S risks. The unit is simple to use, with the only maintenance being light greasing and routine generator checks.

The huge 1200 x 450 jaws can constantly process a 125mm product at over 100tonnes an hour making it ideal for a myriad of application from demolition to quarrying, remediation to waste transfer.

Mark Bryan is delighted with the result, "We have avoided the cost of bringing in a mobile crushing plant. We have also avoided having to process the rebar prior to it being feed into the crusher. We now have a safer process and a very effective means of producing two cash products at the same time. The high load capacity of the magnet means fast separation to boot. Genius! I have a feeling when contractors realise what they are missing, DAC won't be able to build enough of these magnets."

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# New HP5 high density crusher gives replant flexibility not previously possible

## Modernisation of Lepuix-Gy plant (Société des Carrières de l'Est) France, also includes Metso's latest range of high performance crushing & screening products.

La Société des Carrières de l'Est, a Colas group subsidiary, renovated the existing Lepuix-Gy Plant in France.

The plant is designed to produce an average 450,000 metric tons per year and up to 600,000 metric tons to meet demands from special markets such as the supply of ballast for the Rhine-Rhone high speed train line.

The HP5 is the very latest in crushing technology able to provide aggregate producers with a marked change in the possibilities of optimising a wide range of operational modes, far beyond previously thought possible with classic types of cone crushers. The HP5 has now strengthened Metso's already comprehensive range of crushing and screening products to meet the requirements of aggregate producers.

### The modernisation of Lepuix \_GY includes:

- Metso LT125 Track mounted jaw crusher for primary crushing at the face.

### Fixed installation Metso Secondary & Tertiary crushing stages, comprising of:

- HP 400 secondary cone crusher.
- HP5 high density, tertiary cone crusher.
- Large TS screens (High capacity triple angle) in a single line of final screens.

### Process Design

Key in the process design is the ability of HP5 Cone crusher to ensure manufacture of high quality aggregates in the first pass and without the need to stream materials to separate crushers this reduces initial plant investment and the respective ongoing repair and wear costs.

### HP5 Explained

Metso have developed a new crusher technology that has combined the many years of experience in crusher design to develop a cone crusher that has the optimum relationship between cone head angle, eccentric stroke and speed together with the necessity to ensure a fully choked chamber right down to the point of exit. The new HP design on the surface doesn't appear to have changed, however, "the devil is in the detail" with major changes to the crushing kinematics and the strength within the crusher to absorb the higher crushing forces. The HP5 is now part of the Metso's HPX range, which also includes model sizes HP3 & HP4.

### High Density cone crusher in Practice

The principle of high density crushing is reserved for the tertiary stage, where optimization of high quality small aggregates is required. Cone crusher technology provides high chamber stone density where no "flaky stones" survive the process.

The application of this type of heavy duty tertiary crusher is no longer "shackled" to an operational CSS that ensures good shape, the new kinematics ensure shape is excellent throughout the full range of settings available.

This now offers the aggregate producer the ability to optimise premium, high value fractions without the risk of sacrificing good shape, which of course also reduces the yield of waste/low value products.

At the Lepuix-Gy new plant, the shape on the 10 x 6mm fraction (Normally the most difficult to achieve), is now 15%



and is achieved with a 16mm CSS. Metso have a further installation where the mode of operation optimises aggregate yield and reduces dust, with the crusher running with a CSS of 28mm. The resultant shape and flake values are between 12 & 13 % respectively making a valuable contribution to the client's products, giving them a competitive edge in the market place.

### Environmentally friendly

As the Lepuix-Gy plant is located close to a built up area, environmental protection is a prime factor. For example, all screens and conveyors are equipped with dust encapsulation.

### Simple and correctly sized

To simplify operations and save money the tertiary station uses a single big crusher- a Nordberg HP5 - rather than two medium-size crushers. This choice enables a less complex layout as there are fewer screens, conveyors and hoppers - and also reduces power consumption.

### Capacities guaranteed

Since the plant was commissioned in October 2009, the various machines have all achieved the initial hourly throughput specifications, for all finished products (ballast, fine gravels and aggregates). The production of the HP5 is 390tph yielding a net 240tph of minus 14mm prime aggregates with a flake value of 15% on the 10mm.

### The tertiary crushing stage - a new Nordberg HP5 cone crusher

The Lokotrack LT125 mobile crushing unit is fed with 0/800 containing 15% of waste materials. The Lokotrack features a feeder and a TK series scalper to separate and crush +/30mm grades utilizing the well proven C125 jaw crusher. The 0/270 fed from the primary station is reporting to a HP400 cone crusher, which then feeds 0/60 to a TS4.3 screen, preparing the ballast. This product is then washed on a CVB1845 screen.



The fraction smaller than the ballast is sent to a 100 cubic metre silo supplying an HP5 cone crusher with 6/31.5 or with larger grades recycled from the HP400 (ballast or 31/60).

The HP5, the most recent addition to Metso's new cone crusher range, replaces three crushers from the former plant. It produces 0/20 which is sent to a TS5.2 screen. This can be set to 10/14 or 10/20; the 0/10 is sent to a secondary TS5.2 screen for 6mm and 4mm cuts.

The finished products, apart from the ballast, are 0/6S or 0/30, 4/6, 6/10, 10/14 and 10/20. The 0/4 can be added to the 0/6 or 0/30

## Technical Information

**Material:** Eruptive rock (rhyodacitic tuff).

Los: 11

Abrasiveness: 2 200 g/t

Crushability: 24%

## Production

**Primary stage:** C125

Average throughput: 500tph - Top feed size: about 800 mm - Setting: 140 mm

**Secondary stage:** HP400

Cavity: Standard Coarse - Top feed size: about 270 mm

Average throughput: 470tph

Setting: 42 mm

**Tertiary stage:** HP5

Cavity: fine - Feed size: 6/31.5 or 31/60

Setting: 16 mm

**Metso Equipments:**

Lokotrack LT125 - HP400 and HP5 cone crushers - CVB1845-2 screen, new range of TS screens - TS4.3 and S5.2 (2)

## Main features of new plant

**Environmentally friendly**

Less noise pollution

Dust eliminators at machine and conveyor exits.

**Production**

Output rates even higher than forecast

**HP5 cone crusher**

Excellent range of settings

Very good shape

Simplified plant layout: one crusher replaces the three crushers used in the former plant

**TS screens**

Very good screening efficiency with a fines rate in fine gravels of under 1%



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**Email: [minerals.info.uk@metso.com](mailto:minerals.info.uk@metso.com)  
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## Weighing becomes more accurate for Tyne Tees Crushing and Screening with the help of Precia-Molen.

**Part of the Tyne Tees Demolition Group (TTDG) company, Tyne Tees Crushing & Screening (TTCS) operate a fleet of mobile crushing and screening machines producing quality recycled aggregates from their own demolition contracts, as well as forming part of the company's modern contract crushing and screening fleet.**

TTDG is based in Newton Aycliffe, near Darlington, providing turnkey services to a prestigious and national customer base for over 30 years. The group is multi-disciplined, specialising in demolition, site clearance, licensed asbestos removal, salvage, recycling and waste management, with TTCS focussed on in-house and contract work for both recycled materials and quarried products.

Recently TTCS who operate a fleet of machines have purchased an adapted Precia-Molen FXM Belt Weigher which has been fitted to an Extec Mobile crusher to provide a versatile and accurate solution for weighing product on the on-board stockpile conveyor.

This belt weigher is the first FXM to be fitted in the UK by Precia-Molen; Les White - Sales & Marketing Manager, commented, "Following the purchase of this range from Nordic Bulk A/S we have integrated all the products into the Precia-Molen portfolio and can now supply a wide range of dynamic

weighing solutions including on-board belt weighers with an accuracy between  $\pm 0.5-1.0\%$  which offer a flexible solution to suit all types of crushers either mobile or static within the quarrying, recycling and demolition industries."

Accurate weighing is an essential priority for TTCS in the production process and this accuracy needs to be constant throughout the daily duties of the machine. If the machine is moved this means the on-board conveyor is folded when the machine is re-sited. The FXM however takes all this in its stride as when the conveyor is opened out for operation again the FXM will automatically recalibrate offering effective and accurate weighing immediately.

A versatile performer the FXM is a weighing frame with a single idler station utilised in integrating belt scales designed for production weighing applications and comprises of two adjustable height weighing units with integral load cells and a single idler station with special rollers for extremely low build-in height.

Ideal for mobile crushing and screening machines this new technology has enabled the design of a compact assembly with separate adjusting systems for height and trough angle to accommodate the belt conveyor.

The compact assembly facilitates quick and easy installation using standard tools and is suitable for 400 -1,800 mm wide belt conveyors with a conveyor speed up to 2 m/s and offers a maximum throughput of 2,000 tph for all commodity types.

The Precia-Molen FXM scale is unique in its ability to view the current speed of the belt, which is an essential vital element when there is only a fixed period window to discharge, as the belt speed can be increased to suit the flow of products. Other systems currently available can only work on a fixed speed belt and actual tonnage throughput cannot be viewed until after the event.

After installation the FXM scale was connected to an on-board I400 Programmable Indicator which provides a unique and innovative solution to the integration of weight measurement in any industrial process.

Its modular design is built around the CAN OPEN field bus and contains three main components:

- A weight TRANSMITTER located near the weight sensor that ensures the immediate digitization of the signal avoiding any electromagnetic disturbances
- A graphic TERMINAL connected to one or several TRANSMITTERS

- A communication device to field buses: DeviceNET, Profibus and Ethernet (TCP/ip), MODBUS...

Optional additional features include I/O connections, RS 232, RS422/485 and USB ports, 4-20mA analogue outputs, USB key for data storage and product traceability. The I400 programmable indicator also allows the integration of all CAN Open compatible components or equipment: remote I/O's, frequency inverters and servo valves.

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The metrological performance of the I400 programmable indicator complies with the most stringent industrial

processes in terms of speed, multirange capabilities, signal filtering performance. All components of the I400 programmable indicator can be installed within ATEX hazardous areas with a possible connection to peripherals located outside the hazardous area.

Provided with a software package compliant with IEC 1131 standard, the I400 programmable indicator offers standard Precia-Molen application software and allows PLC programmers to easily create their own application.

Andrew Verity, who heads up TTCS, commented, "We are very happy with the FXM as with the accuracy of the weighing we now know the amount of product we process each day which allows us to accurately determine with our client the production rates we are achieving."

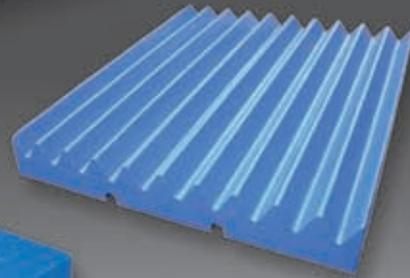
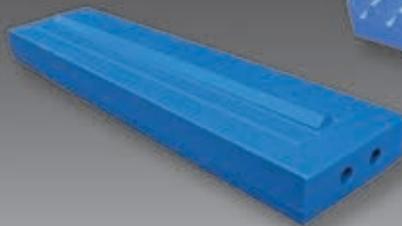


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## SKAKO celebrate 25th Anniversary with record year

Skako Vibration Ltd, the Tadcaster based vibratory feeder and screen specialists, are celebrating their 25th anniversary in style, with a record trading year.



Feeders from a batch of 21 being tested in the main assembly shop

Skako Vibration Ltd is part of the Skako Vibration Group, one of the largest European manufacturers of specialist vibratory feeders, conveyors, grizzlies and screens. Founded in 1986, the company quickly established a market leading position, thanks to the stewardship of its Managing Director Frank Lockwood, up until his retirement in 1999, and since then, Bob Hill.

Commenting on the company's current successes, Bob Hill said: 'since the challenging trading conditions of 2009, our amount of business has soared to record levels. Both long established and new trading partners have entrusted Skako to satisfy their requirements for vibratory feeders and specialist screens and grizzlies'. He added: 'In 2010, we recorded a record order intake, and with the excellent open order book carried into 2011, together with high volumes of orders received this year to date, 2011 is already guaranteed to be our record trading year - a fitting way to celebrate our 25th anniversary. Over the past 12 months alone, we have delivered nearly 200 vibratory units to our UK customers, ranging from small 300 mm wide feeders to specialist linear displacement screens weighing 12 Tonne each. The majority of sales being to the quarrying and associated extractive & recycling industries'.

Bob Hill commented further: 'I believe the secret to our success, is that we can offer the best suited vibratory unit for any application, due to our wide range of standard options, without having to compromise. We offer construction methods to suit both light to medium and heavy to very heavy applications, and we then have 4 vibratory drive options, and provision for electrical or hydraulic power sources. Additionally, the fully assembled modular feeder concept which Skako pioneered remains a firm favourite with end users, OEM's and contractors'. The Skako modular feeder assembly includes the vibratory feeder tray, together with a flanged inlet hopper section, bed depth regulation gate and supporting spring assembly. To mount the modular feeder, the flanged hopper section is simply bolted to a mating flange on the preceding hopper, silo or chute work.

**For more information, please contact: - Skako Vibration Ltd, Tel: 01937 838010, Fax: 01937 838011  
E-mail: [skakovibration@btconnect.com](mailto:skakovibration@btconnect.com)  
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## Finedoor supply new Triple Deck Aggregate Screen to maintain production at Hulands Quarry

Owned and operated by Bardon Aggregates (a subsidiary of Aggregate Industries) Hulands Quarry is situated 2 km to the East of Bowes, near Barnard Castle in County Durham. Currently processing approximately 300,000 tonnes of limestone per annum extraction dates from the 1850's when the original quarry was developed in conjunction with the South Durham and Lancashire Railway which was opened in 1861. Subsequent supplies to the LNER led to further development of the site.

As part of regular maintenance on the crushing and screening plant it lead the production team at Hulands to contact leading screen manufacturer Finedoor to supply a quick replacement to ensure continuity of production. Specialising in dimensionally similar replacement screens Finedoor can easily supply a screen that can be installed into an existing location, designed and manufactured to sit onto existing steelwork.

After a full site survey of the existing screen Finedoor manufactured and supplied a Ritescreen Triple Deck Aggregate Screen 4.3m long x 1.38m wide which would process the same product specification currently been fed by the existing screen with the same feed material.



Manufactured with 10mm thick rigid side plates with heavy duty bolted in deck frames and inclined to 18° the new screen was designed to suit side tensioned screen media of choice.

Fully tested before despatch the top and middle decks were fitted with a full set of HTWW screen media with apertures to fit product requirements and the bottom deck with one full set of Extraflex rubber tensioned screen media with 8mm FR apertures which was removed from the existing screen and refitted. Additionally, a dust encapsulation system was also supplied and installed in the Finedoor workshop to facilitate dust retention within the screen.

Installed by Bardon engineers within the stipulated timeframe, Finedoor assisted with commissioning of the screen after installation. Finedoor also undertook a vibration test of the existing structure.

The project was a complete success; Alan Connolly - Manager, commented, "The bespoke screen that the Finedoor Engineers supplied was a good investment and provided me with a product that totally achieved our specification. The screen was designed to fit our existing unit without any modification to base steelwork or chutes and was commissioned to a high standard with full support from Finedoor Engineers included within the contract."



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# Mining 30 years old

Potomac Landfill, Inc. began operations in 1985 not far from Washington, DC. By 2006, more than 75% of the 52.8-acre landfill area of the 96-acre site was full, leaving only 12.8 acres for future use. Since then the company has been taking an innovative approach to extending the life of the landfill. By mining and recycling construction and demolition material that was buried 60 to 120 feet deep 25 to 30 years ago, Potomac is breathing new life into a 26-acre area. Included are woods, ferrous and non-ferrous metals, plastics, concrete, cardboard, tires, and dirt that is suitable for use as fill or topsoil. Non-recyclables are returned to the landfill, where they now take up far less space.

This leaves room for new construction and demolition materials trucked in daily by local construction, demolition and excavation contractors. Both the mined and the incoming materials are thoroughly screened to remove usable dirt and recyclables. Potomac is strictly a construction landfill. The company does not accept residential or commercial garbage.

A track-mounted Powerscreen® Warrior 1800 purchased new in 2009, a track-mounted Warrior 2400-Powerscreen's newest and most advanced dry screen-purchased new in 2010, and a 20-man portable picking station are the key factors in the extreme success of the operation.

"It's working out every bit as well as we'd hoped," says General Manager Richard Campbell. "We figure the combined mining, screening and picking station operations will add another 20 to 25 years to our landfill, plus we salvage

a lot of recyclable materials we can sell for profit and to help preserve the environment.

"In the old days, practically all the incoming C&D debris-except for some of the very largest pieces of wood, concrete and metal that were picked out by hand-was dumped into a hole and covered up. That's the 26-acre site we're now mining."

The Powerscreen Warrior 1800 is used primarily to remove dirt from mined debris. Originally it was used to screen both new and mined materials in conjunction with the picking station.

"The Warrior 1800 is fitted with a fingered screen, which is good for mined materials that have a lot of dirt mixed in," says landfill Operations Manager William 'Tom' Lewellen. "It's great for getting the fines out. Both incoming new debris and mined materials that have had the dirt removed by the Warrior 1800 are processed through the Warrior 2400, which is a heavy-duty machine with an extra-large hopper and is equipped with optional punch plates instead of fingers; so dirt and small materials fall through, while the most worthwhile recyclables remain. Thus, there is very little clogging, and any clogs that do occur are easy to free up. Punch plates have been used a lot in Ireland and other foreign countries, but not much in the U.S."

Lewellen further explained that the Warrior 1800 has a standard rubber feed belt, which is fine for mined materials with their high dirt content. The Warrior 2400, however, has an optional metal feed belt, which is much better for handling the new, incoming construction debris. The metal belt gives smoother operation, has a larger screen area, is more durable than rubber, and materials are less likely to get hung up in it.





Lewellen emphasized that portability is also important. "Moving either Warrior takes just the push of a button and off it goes. The tracks easily handle rough, uneven ground; they don't get mired down in mud like wheels do; and the 2400 has individual hydraulic jack-up legs for quick, easy levelling.

Screened materials from the Warrior 2400's discharge conveyor are deposited onto a beltline that runs through a portable, 74-foot-long picking station with up to six large dumpsters positioned under it. Each dumpster is designated for a recyclable material: typically two for woods, two for metals, one for concrete, and one for cardboard. Depending on beltline volume, 12 to 20 workers standing alongside the beltline in the station pick out recyclable materials, which are dropped into the dumpsters below. Filled dumpsters are removed by truck as needed and replaced with empties. Junk materials to be landfilled drop off the beltline at the far end of the station in a stockpile and are removed by a front-end loader.

"Before we bought the Warrior 1800 in 2009," Lewellen says, "we looked at various types and brands of screening equipment. First we tried a trommel, but it clogged way too much. We also tried other kinds of equipment that were not satisfactory, including a star screen that wouldn't do what the manufacturer said it would. It simply wasn't designed for our kind of application, though we still use it sometimes in a secondary capacity.

"So we continued our search. We found that manufacturers and dealers would give us a lot of information and promises about their equipment, but only Powerscreen Mid-Atlantic, the Powerscreen distributor headquartered in Kernersville, NC, brought their machine-the Warrior 1800-in for a demo on site, processing our material. They also took me to a landfill in North Carolina to see a Warrior 1800 working and talk to the owner about it. Based on all that, buying the 1800 was an easy decision, and has proven to be a very wise investment.

"When Powerscreen introduced the Warrior 2400 in 2010, we saw it as the perfect partner to the 1800 for our purposes," Lewellen explained. "Powerscreen Mid-Atlantic recommended the punch plates and metal feed belt. Our Warriors are efficient, dependable, and require very little maintenance.

"Using the two Warriors and the picking station has doubled our production," Campbell added. "In 2010 Potomac Landfill Inc. produced 60 million lb. of recyclable materials-that is, materials that did not have to be landfilled. We're one of only two construction landfills in Virginia that are mining old landfill materials. It has been incredible how well our two Powerscreen Warriors have handled the different types of materials we've thrown at them.

"We have an excellent relationship with Powerscreen Mid-Atlantic," Campbell added. "We get good, timely service as needed, and we can call on them at any time for advice, whether it relates to Powerscreen equipment or to Potomac Landfill operations and screening in general."

The Powerscreen Warrior 2400 is designed for tough service in large scale quarrying and mining applications. It can handle larger feed sizes and throughputs. It features a heavy-duty incline screen with a high amplitude, triple-shaft drive mechanism, lending it to screening, scalping, two- or three-way splitting, and stockpiling materials such as aggregates, C&D waste, topsoil, coal and iron ore. It is rated up to 800 tph, depending on materials and conditions. The Powerscreen Warrior 1800 is a smaller, equally versatile machine designed for medium to large applications.

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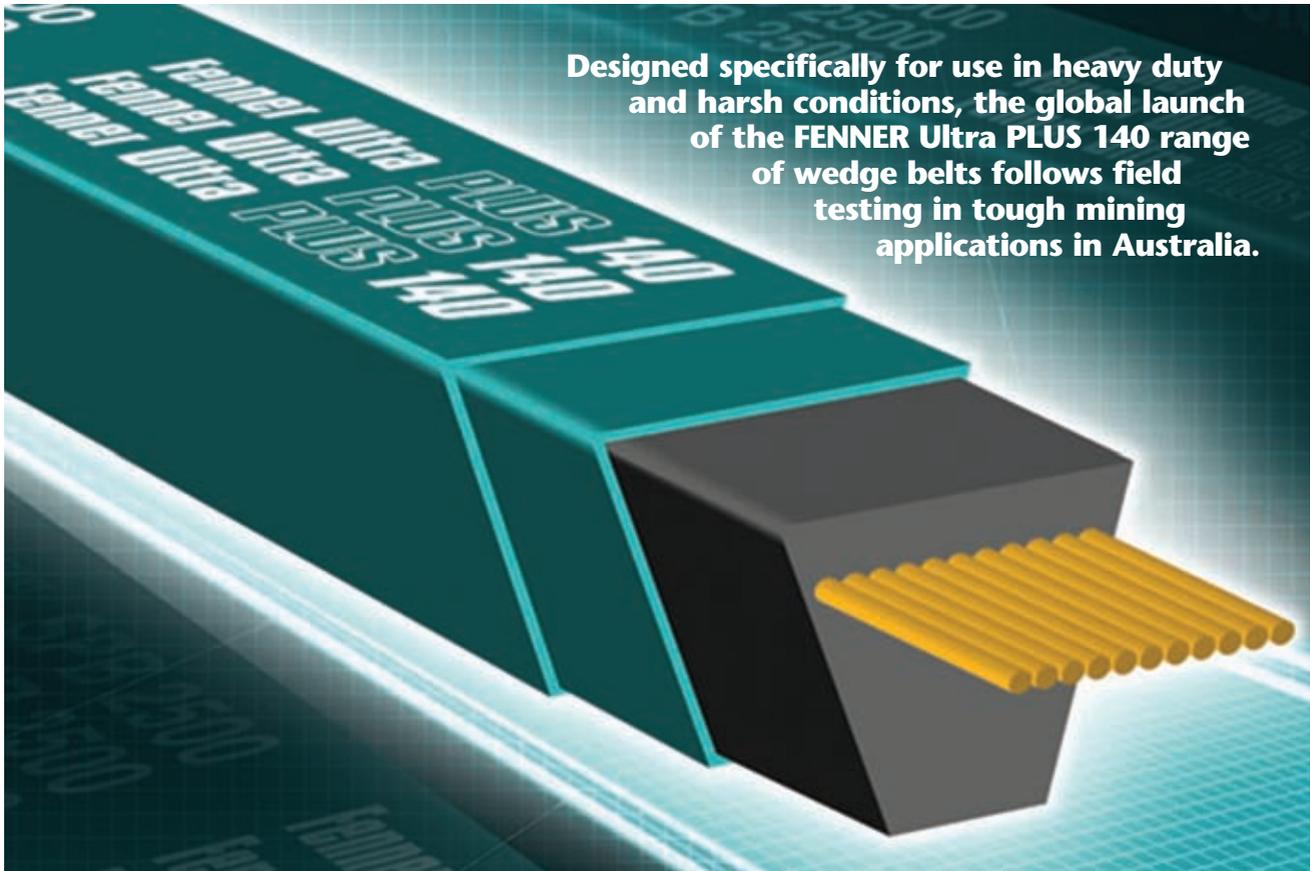
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# FENNER launches new range of ultra high strength Wedge belts for tough applications



Designed specifically for use in heavy duty and harsh conditions, the global launch of the FENNER Ultra PLUS 140 range of wedge belts follows field testing in tough mining applications in Australia.

**The Fenner Ultra PLUS 140 is available in two cross section sizes, SPB (16 x 13 mm) and SPC (22 x 18 mm), and in a range of lengths from 2.8m to 10m. Both belt sections employ the very latest in materials and construction technology, bringing what is essentially a 60 year old design right up-to-date.**

The belts are named due to their enhanced transmission capacity, offering 140 percent of the power rating of regular FENNER Power plus PB wedge belts. The inner load bearing cords are made from aramid fibre. This is the same incredibly strong material used by DuPont to create Kevlar®.

The aramid cords are surrounded by chloroprene rubber (CR) which provides greater wear life than regular compounds, and is more resistant to heat, oils and chemical exposure. This material also provides improved electrostatic conductivity performance and, similar to other belt drive systems, affords a degree of protection from shock loading.

The belts are double wrapped in a hard wearing woven polyester-cotton fabric impregnated with CR. The fabric weave has been woven at a specially developed angle of warp vs. weft rather than the traditional 90 degree weave. This innovative weave pattern gives the belt greater bending flexibility, maintaining drive efficiency whilst protecting the internal working components of the belt.

This added flexibility results in drives using these belts offering a fully tested drive efficiency of up to 96%, far higher than most gear or chain drives would be expected to deliver in heavy duty applications. The high efficiency figure relies on the belts being fitted to the correct dimension cast iron pulleys, aligned correctly, and tension adjusted to within recommended operating limits.

Fitting the new belts correctly can be achieved more easily using the FENNER installation and alignment kit, which includes a pulley groove wear gauge, a tension gauge to help install correct tension, and an alignment cord for simple, effective pulley alignment. Laser alignment tools are also available separately.

Ultra PLUS 140 wedge belts are designed to be used in 3,4,5,6 or 8 groove pulley drives, as a new installation or as replacements. In new installations the belts can contribute to reduced drive costs, due to their higher power rating which allows the use of fewer belts, yet delivering the same effective drive life.

For existing drives, fewer belts need to be purchased and fitted to existing pulleys. Either way there is a significant cost saving. Best Practice recommends that the pulleys are changed every other time the belts are replaced under heavy wear conditions. This keeps pulley grooves in optimum condition, contributing immensely to maintaining drive efficiency.

Normal wear conditions for the Ultra PLUS 140 are, however, expected to be considerably longer than for conventional belts with one layer of wrapping, which typically have natural rubber based cores and lower strength polyester cord materials. Individual FENNER Ultra PLUS 140 belts are rated at 22kW and above, but in multiples have been used to provide power transmission for systems up to 900kW.

These new, larger sections FENNER wrapped wedge belts are designed to drive large rotating plant such as pumps, conveyors, fans, crushers and separators, typically used in quarrying, mining, processing, aggregates, the power industry and waste recycling sectors.

As is to be expected from one of the worlds longest established and most successful Power Transmission belt brands, the application experience and general technical support available both from FENNER Authorised Distributors and licensed distributors is second to none.

The benefits of mature technology, with its associated dependability of design and application, combined with the latest materials science, longer wear-life and added strength of the latest designs makes the new range difficult to beat in its target application areas.

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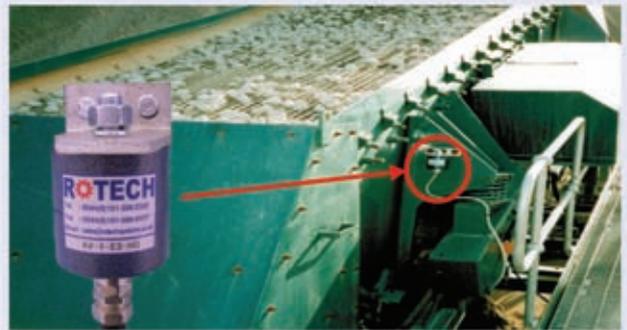
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# John Mould uses the latest screening and crushing technology to produce the highest quality recycled products



**Modern haulage, demolition and recycling demands highly skilled operatives and state of the art technology to be successful, and it is no accident that John Mould of Reading was amongst the first specialist demolition contractors to realise that makeshift methods had no place in the modern world of the construction industry. His extensive fleet have always been equipped with the finest machines available in order to deal with contracts of all sizes and degrees of complexity. Some of the latest equipment used to equip John Mould's fleet has been supplied by the mobile crushing and screening division of Sandvik Mining and Construction.**

John Mould began business in 1969 with one tipper lorry working as an independent haulier servicing the construction industry. Within a few years the fleet had increased to approximately twenty tippers, with additional expansion to encompass excavators and diggers. These developments were required as the business progressed from being purely haulage and landfill, to the supply of hard-core and crushed concrete. By the early 1980's John had a crushing and grading plant in operation, and by 1990 permission had been granted for a 30 acre transfer station. At this Transfer Station demolition materials were sorted, crushed, graded and then supplied back to the construction industry. This development saw John being amongst the very first contractors to embrace the environmental and commercial benefits to be enjoyed through such operations.

Following on from this John Mould realised that in order to supply his customers with the very best recycled materials then he needed to be involved at source. Thus, John's entry into the demolition business pioneered control of the source material of the crushed and then the quality of the graded recycled material resold to the construction industry as

aggregate. John's foresight provided a foundation for today's successful business based on both efficient and timely demolition, coupled with a high quality recycling operation which possesses the additional benefit of reducing landfill and waste. As John states himself - "The recycling, re-using and reselling of demolition materials always was a sound business model, but I have always been aware that there are environmental benefits to be enjoyed. As a businessman I am proud of the fact that my business not only makes money, but also does its bit in making our resources go that little bit further."

John Mould is not only involved in the processing and recycling of demolition materials as decontamination legislation for the control of pollution ensures that remediation work must be undertaken on contaminated land. This highly technical specialised work was embraced by John Mould at a relatively early stage of operations, and working in conjunction with environmental chemists John Moulds are able to provide a complete service of exaction and removal to approved disposal sites. All materials are tested and monitored for contamination, on site, and over the years they have developed an excellent working relationship with the Environment Agency in order to provide reports and agree final clearance.

It is in the recycling of construction waste, demolition and excavation materials that John Moulds excellence really stands out. The recycling makes excellent commercial sense for all parties as it provides the construction industry with a range of quality controlled materials at keen prices, whilst avoiding the tipping penalties that these materials would otherwise attract. Due to these commercial factors, and additional positive environmental benefits, John Moulds have positively embraced the industry's aim to see a quarter of construction aggregates supplied from recycled materials.

As John expands - "Recycled construction materials are delivered by our highly efficient fleet of tippers, controlled by our transport office to service customers. The materials are of the highest quality and can be found used on projects throughout the UK: in fact our watch word is Total Control through Cutting Edge Technology; and that essentially defines our business."

In order to implement his operating philosophy of "Total Control through cutting edge technology" John Mould has always insisted upon using the very best equipment. This has been particularly true in the use of mobile screening and crushing technology, where John has proved to be a loyal customer of Extec, and since their acquisition by, of Sandvik Mining and Construction equipment. As John explains - "I always found Extec plant to be of the very highest construction, designed and built for our real requirements. Now Extec are no more and have become Sandvik, I am pleased to see that the machinery quality has improved, but they haven't lost that little spark that always set them apart." John's Sandvik fleet of mobile crushers and screens now comprises of jaw crushers, impact crushers, scalpers and three way split screens.

A key tool used John's successful operation has been the Sandvik QJ340 tracked jaw crusher. The QJ340 tracked jaw crusher utilizes Sandvik's unrivalled design and manufacturing expertise to build upon the success of the world's best-selling track-mounted mobile jaw crusher, the QJ340s predecessor, the C-12+. The power and versatility of the machine has proved its worth on numerous projects. Possessing a compact and mobile construction, the QJ340 is powered by a C-9 engine that meets all known emissions standards. Boasting a large feed opening with unique high

crushing speed the QJ340 delivers high outputs together with excellent product size reduction for maximum productivity. Furthermore durability and reliability are ensured by a reverse crushing action capability to relieve blockages, and by an automatic lubrication system.

The Sandvik QJ340 has proved its worth for John Moulds as their mobile primary crushing solution with diverse materials such as crushing bricks, concrete blocks, rebar concrete and asphalt are all easily catered for. On the job versatility is assured by a comprehensive range of optional extras that allow the QJ340 to be modified to match precisely the demands of any specific application.

The Sandvik range of mobile crushing and screening equipment enables customers to process materials for the construction industry from the very beginning of its usable life to the very end - and beyond. Quarried stone may be crushed and sized to produce the highest quality of aggregates; when its life cycle is finished the Sandvik range of screens and crushers developed specifically for the demolition and recycling industry will allow for the same materials to be re-used, and recycled, starting the process again so that the circle of use is complete.

John Mould has led the way in using the latest equipment and processes to maximise his business. The business has been expanded from its humble beginnings to not only encompass some of the most advanced mobile screening and crushing equipment, but to also embrace ideas and ideals that ensure we all benefit.

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# Demand for compact screening on the increase!

Anaconda Equipment, the Northern Ireland based manufacturer of mobile screens and stockpiling conveyors, is currently enjoying increased demand for their range of screening equipment. Anaconda offer three types of screen; the Df410 scalping screen, the SR410 conventional aggregates screen, and the TD516 trommel screen. The range of equipment can be classified as 'entry level' or 'compact' and is available on crawler tracks or wheel chassis.

Anaconda is a relative newcomer to the industry, having launched their first tracked screen at the Hillhead quarry exhibition in Buxton in 2010. However, those involved in design, manufacture and sales process have been involved in the sector for many years, as highlighted by Alistair Forsyth, the company's managing director:

*"I have been involved in this sector since 1999 and my business partner, Martin Quinn, has been involved since 1986. Con Gallagher looks after sales and he began his career in the industry in 1995, so it is fair to say we are not newcomers to the sector."*

When asked about the rapid success to date, Mr Forsyth highlights three key reasons for their growth:

*"Our ability to ship all screens in 40' containers without any breakdown is a huge selling point as it reduces the shipping cost dramatically - this cost saving is passed onto the end user making the product price very attractive when compared to other imported screens. The DF410 has been particularly successful as it is versatile across a range of applications and has excellent throughput for such a compact screen. Another reason for our success to date has been in the quality of equipment we turn out. Our design team are very focused on the features, benefits, ease of use and overall quality of the products manufactured."*



Anaconda's range of equipment can be found working around the globe from New Zealand to the US and South Africa to Sweden. New Zealand in particular has been an attractive market for Anaconda and one where the DF410 has been particularly successful due to its versatility across a range of applications. Mr Forsyth continues:

*"One of the first applications in New Zealand the DF410 was used in was to recover scrap metal from fines enabling the company to sell the scrap metal for good return. Another recycling application was the recovery and reuse of utilities waste from a project out of Auckland. The 0-20mm 'fines' was reused in the same trenches dug to lay the pipes/cables. The distributor in New Zealand is finding new applications all the time and enquiries have been steadily increasing."*

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

# Rotech Vibration Sensor - VS4000 Series

**Most modern screens are designed with the benefit of modern CAD & computer simulation techniques and can cope with a wide range of operational conditions under very different applications.**

However, variations in feed rates and composition of the material being processed can, in some circumstances, result in an excessive amount of material being on the screen at any one time. If, as a result, the rate and speed of vibration of the screen slows down, even temporarily, problems can quickly occur, causing blockages, stoppages, downtime etc, inevitably leading to a major situation & proving to be very costly to rectify.

Material continues to be fed on to the screen at the normal rate but the slowdown causes the discharge rate to be reduced, a marginal overload can quickly enter a runaway situation with material arriving at the screen causing an ever increasing overload and further slowdown. Mechanical failure, V-belt 'burn off' or the intervention of the drive motors electrical overload is often the first time the operator will know that all is not well.

Rotech's Vibration sensor VS4000 fitted to a screen is designed to monitor its rate of vibration and will operate an alarm or switch the in-feed conveyor off if the screen slows down. Even a drop in speed of 5% for a few milliseconds can be detected and action taken almost instantaneously. On V-belt-driven screens the drive motor can be switched off the moment any slippage occurs, preventing extensive damage to the belts.

The VS4000 signal output can be connected to the Plant PLC/Computer or independently used with the Rotech Vibration Relay - SR4000 series

Typically on a screen vibrating at 750 throws per minute, the SR4000 Vibration Relay is set at 725 TPM, if the speed drops below this level, the relay operates in less than 10 milliseconds.

For more information, click on the links below to browse the Rotech Systems website where you can download data sheets & application information.

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## 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 was commissioned recently is producing 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.

Recently exhibited at the Hillhead 2010 show the GipoCOMBI RC130FDR is a heavy duty, highly efficient machine of compact design which can be operated by remote control with a range of 200 metres. Driven by a Caterpillar C15 engine supplying 430kw in total, the powerful engine allows 380kw + to be applied to the crusher.

Featuring a dual-zone blockage release system (which can be operated remotely), 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 (estimated at 20% more efficiency) 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. The machine also features 3 belt

weighers, two for the main product conveyors (0-5, 5-25) and one for the scalping belt.

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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## Terex® Mobile Processing Equipment (MPE) launch Terex® Finlay 863 Tracked Mobile Heavy Duty Screener.

The new Terex® Finlay 863 is a highly versatile and adaptable machine engineered and built for working in quarrying, mining, construction and demolition debris, topsoil, recycling, sand, gravel, coal and aggregate applications where site space is at a premium.

This aggressive forward facing inclined modular configuration screenbox has a 2755mm x 1200mm (9' x 4') top deck and a 2755mm x 1200mm (9' x 4') bottom deck. Depending on the working application of the machine, the screen box angle can be adjusted hydraulically between 14° - 18°. The top deck of screenbox can be fitted with a variety of screening media including; tines, bofor bars, punched plate and mesh. The bottom deck can be fitted with mesh or cascade fingers.

A high performance 1000mm (40') 4 ply belt feeder, with hydraulic gearbox drive, is fitted to the machine as standard and has proven performance and versatility in demanding and varied working environments. The hopper has a 5m<sup>3</sup> (6.54yd<sup>3</sup>) capacity as standard.

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

A Deutz 2011 49kW (66Hp) air cooled engine is used to power the machine. The heavy duty crawler tracks, and optional radio remote control unit, make on site mobility very easy.

An additional key feature of the machine is hydraulic rising of the screenbox discharge end to provide additional clearance for screenbox and fines transfer conveyor maintenance.

The plant has the capacity to process at a rate of up to 250 tonnes per hour and can be fed either by a tracked mobile crusher or an excavator.

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

### Key Features:

- Aggressive screen box can accept bofor bars, screen harps, woven mesh, punch plate and cascade fingers.
- Screen box angle can be hydraulically adjusted between 14° - 18°.
- Screen box discharge end can be hydraulically raised 500mm to facilitate efficient and easy media access and changing.
- Oversize conveyor angle can be hydraulically adjusted from 15° - 24°.



## Terex® Mobile Processing Equipment (MPE) launch NEW Terex® Finlay C-1550 Tracked Mobile Cone Crusher.

The Terex® Finlay C-1550 is the latest addition to the Terex® MPE range of tracked mobile cone crusher range. The Terex® Finlay C-1550 is the largest cone crusher launched to date by Terex® MPE and joins the successful and proven Terex® Finlay C-1540 & C-1540RS models.

The Terex® Finlay C-1550 incorporates the Terex® 1300 cone crusher driven by direct drive. The machine features an innovative optional pre-screen module with a single deck 2.45m x 1.52m (8' x 5') screen for removal of fines from the feed material. The integrated chute system, below the pre-screen, allows the fines material to be discharged from the machine using the optional by-pass conveyor or reintroduced onto the main product conveyor. Both methods improve the plant throughput capacity, product flexibility and liner wear reduction. The pre-screen module can be used to produce a product from the optional by-pass conveyor, if used. The cone features variable speed drive, hydraulic tramp relief system and ability to change closed side setting while crushing. The large hopper/feeder has an automated metal detection and a purge system to protect the cone and reduce downtime by removing metal contaminants from the feed belt.

The hydraulically adjustable feed conveyor allows the machine to be operated using either the innovative pre-screen system or if required by feeding directly into the cone.

### Key Features:

- Terex® 1300 Cone Crusher
- Pre-screen system for fines removal
- Fully Hydraulic CSS Adjustment
- Direct Drive
- Hydraulic Tramp Relief System
- Automatic metal detection and automated purge system
- 8m<sup>3</sup> (10.4yd<sup>3</sup>) hopper capacity as standard



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# UK's First Powerscreen XH 320 SR Goes to Lickley Group

**Lickley Group's Contract Crushing and Screening division has taken delivery of the UK's first Powerscreen XH 320 SR mobile crushing plant. This powerful and productive machine joins a modern rental fleet of crushing and screening plants and materials handling equipment offered for both operated and non-operated short- and long-term hire provided by Lickley Group throughout the UK.**

Lickley Group is an independent, family-owned organisation with headquarters in Boroughbridge, North Yorkshire. As well as national crushing and screening hire operations, the Group also has interests in general plant hire and, through their waste management division, offers a range of specialist services from skip and bin hire to hazardous waste treatment, waste transport and reclamation and recycling, at their North Leeds site which Lickley is currently developing. The Group also has well-established national sales and hire operation for site safety equipment from all manufacturers and also provides a calibration and repair service - including gas detectors, winches, and tripods and breathing equipment amongst many others.

The Powerscreen XH 320 SR is a mid-sized horizontal impact crusher providing excellent reduction and high product shape consistency. Equally at home crushing coal, quarried rock and recycled aggregates, the XH 320 SR features a rapid set-up time, site agility and manoeuvrability on its crawler undercarriage, a fuel efficient direct drive and an output potential of up to 320 tonnes per hour depending on the application and materials to be processed.

The built-in cartridge grizzly on the XH 320 has a 42mm nominal spacing and there is a load management system for feeder speed control. The crusher chamber features hydraulic overload protection and adjustment, with crusher speed variation controlled by a user-friendly PLC control system. An independent under crusher vibrating pan feeder is standard and the modular conveyor has a simple hydraulic raise/lower facility to aid clearance of tramp metal rebar. The model taken by Lickley Contract crushing and Screening is the XH 320 SR which is equipped with a 3300mm X 1500mm double deck post screen. This facility enables the stockpiling of a clean mid product which would normally only be achieved through the use of a separate 2 deck screening plant.



Commenting on his company's new acquisition, owner and director Mark Lickley said "We've been a customer of Blue Central for about a year now and they have already added various Powerscreen crushing and screening plants to our fleet, as well as Telestack mobile conveyor systems. Our new XH 320 SR has been hard at work on a coal crushing contract and we are very pleased with its performance, as we are with all the support and advice from Blue Central. What we liked about the whole Blue Group set-up" he continued "was the nationwide coverage through parts and service which I rely on to maintain my fleet. Their spares facility is second to none and this was one of the key factors that helped me to make my machine choice between the three leading brands I looked into".

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