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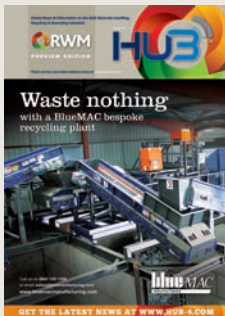
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RWM Preview 2014

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RWM in partnership with CIWM is just around the corner and has a wealth of innovation and the latest industry insights to offer

This is an industry facing constant new challenges, particularly with the European Commission's 70% recycling targets for 2030 announced this year. Our goal at RWM in partnership with CIWM is to create a hub for the latest ideas, developments and technologies in the resource efficiency and waste management sector. The need to innovate and find new solutions is more present than ever and a collaborative working approach will drive the industry forward.

Some of the most exciting current thinking focuses on moving closer to a circular economy, where more resources are recaptured and reintegrated into the manufacturing process. In our new 'Circular Economy Connect' event, there is a new theatre, workshops, hospitality and networking zones to help you close the resource loop in your organisation. We will also have some of the leading companies on the exhibition floor, from Finning Cat and JCB to Bulk Handling Systems and Eriez.

This year, we are located across two new larger halls, alongside the outdoor area. We have more than 750 exhibitors organised into five new zones, designed to help you target areas of interest and maximise the effectiveness of your visit. We are also welcoming 200 industry leaders speaking in over 70 seminars and debates across the show's three theatres, as well as providing more dedicated networking areas than ever before.

We hope you share ideas, become inspired and enjoy RWM 2014.

**Sarah Porter, divisional director for the environment
events at i2i Events Group**



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RESOURCE EFFICIENCY AND WASTE MANAGEMENT SOLUTIONS

Williams & Williams invest in a BlueMAC Dry Recyclables MRF

Williams & Williams who are based in the Llyn Peninsula in North West Wales have recently installed the latest Dry Recycling MRF which has been designed and built by BlueMAC and supplied by Blue Machinery Central.

The company commenced trading in 1920 selling animal feed and coal to the local community by the current managing director Meurig Jones's great uncle. Since then Meurig who purchased the company in 1987, has driven the business from a single skip truck and six skips to the multi-faceted recycling company that it is today with the company being in the enviable position of being one of the only recycling companies in the area.

With the business now employing 18 personnel and covering the surrounding areas, steady rational growth has seen the company services expand to cover skip hire, the supply of sand and gravel and other recycled materials, road sweeper hire, septic tank emptying, drain jetting and cleaning and waste processing, with their current recycling operations achieving an overall 85% recyclables recovery rate.

"The decision to purchase a new MRF as part of a £1/2 million investment was taken to make the business more efficient, safer and more profitable. We did look at other potential suppliers as well as BlueMAC but the final design and quality of build went in BlueMAC's favour. With their vast experience and their design and engineering capabilities it gave us a lot of confidence in making the investment", commented MD - Meurig Jones.

The plant

Configured by a team of innovative BlueMAC engineers the new Dry Recyclables MRF was designed to fit into a tight footprint within an existing structure and provides a compact efficient materials flow from the incoming household waste stream to the final separated and recyclable products. Easy to access the plant features full walkways and is fully guarded throughout.

Operated by a team of 3, waste material is fed into a hopper which conveys the material up an inclined conveyor to a ballistic separator. This splits the material 3 ways; -40mm fines, 2D material (flats-predominantly paper and cardboard) and 3D material (rounds-predominantly plastic bottles, trays, ferrous and non-ferrous cans). The 2D material is then fed up a line with one picking bay, where paper is separated from cardboard manually. Any 3D material is fed up a line where it goes through a manual quality control pick. A magnet then removes ferrous material which is then chuted into a baler with an eddy current separator removing non-ferrous material which again is also chuted into a specific baler.

The 2D/3D separation is done to boost performance in the next phase of equipment, which is the advanced core of the system. Here material flows onto a Titech dual-split optical sorter which rejects any polyethylene terephthalate (PET); the material is then recirculated and fed into the Titech again for a second hit with any high-density polyethylene (HDPE) separated and ejected. Any residual material with low value is also rejected.





"Overall we are very pleased with the plant, in particular Ben McQuaid, Oliver McShane and Paul McCann of Blue who worked very closely with us in designing a high quality engineered plant that would fit into our existing building, quite simply 'it does what it says on the tin'. We also have the added confidence of a full spares and 24/7 service package with Blue Machinery Central", commented Meurig.

Partially powered by 192 solar panels that generate 48kW these panels provide 50-75% of the electrical requirement for the new plant at Williams & Williams which has been designed to achieve a throughput of 8tph. Providing a 100% recyclable solution from their current incoming household waste stream this will provide a future proof capacity for the company through a more efficient process with additional environmental benefits.



Company ethos

Meurig Jones, commented, "It has always been the company's aim to offer a high quality service at a competitive rate through the efficient use of recycling. This investment in the new BlueMAC Dry Recyclables Plant will take the company one step further towards this goal. The local community is very important to the company and I would like to raise the profile of recycling in Gwynedd. We already arrange evening visits to the yard by local groups and we foresee a strong role in targeting local schools by offering site visits to emphasize and educate the importance of recycling."



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(L/R) - Ben McQuaid (Blue-Central Sales Manager), Ceirion, Rhiryd, Peryf & Meurig Jones (MD)

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Manufacturer puts forward the need for Eddy Current Separator Industry Standard



Author Rob Jones
MD Magnapower

When unwanted non-ferrous metal finds its way into processing equipment such as shredding and crushing equipment, it can be costly for the quarrying industry. The source of the contaminant can be wide and far reaching. The recovery of this material before it enters the processing stream is, therefore, crucial in preventing unwanted maintenance costs and plant down time.

One potential solution being increasingly turned to by the industry is the use of Eddy Current Separators (ECS), which use magnets to eject non-ferrous metals from the flow of non-metals, preventing this damage further down the line.

The use of ECS machines to remove metal, as a contaminant or as a product which has a market value, has led to them becoming an essential tool in many recycling and material handling plants. The performance and value of the machine can therefore be directly related to the bottom line of companies which purchase them.

However, at the moment there is not a performance standard across the industry which allows buyers to compare machines. Rob Jones, Managing Director of one of the UK's leading manufacturers of magnetic sorting equipment, Magnapower, is leading the call for an industry standard.

"When purchasing an ECS machine, clients are often given information such as the number of poles, belt speed and gauss - none of which indicate performance of the equipment they are buying and can therefore be misleading. For example, when purchasing a car, you would not expect the manufacturer to only supply the rpm figure, as it alone provides no indication of performance" says Rob.

The creation of an industry standard would not mean those machines which did not meet a certain criteria are of no benefit, but would provide a relative performance guide, indicating those which are capable of recovering more metal

Rob continues; "The acid test is to define what a machine separates. The belt speed determines how far an object can be thrown - which is not to be confused with the separation of material, as throwing is not material separation, merely a function of the belt speed."

There are other factors to consider such as cost, availability and reliability when deciding on a separator. However, performance has probably the most significant impact on a company's bottom line and, as the metal recovered prevents damage to crushers, hammer mills and conveyors, it contributes to a measurable reduction in the likelihood of plant down time.

A suggested separation test would need to include defined sizes of both metal and non-metal pieces, allowing the process to be repeatable and measurable.

Rob believes that the industry is capable of adopting, applying and administering the standard with no need to bring in outside monitoring - which would only add cost to the machines. The industry comprises a small number of manufacturers who are able to self-assess and monitor and the testing itself would be relatively simple and carried out as part of the normal testing process of the machine in the factory, which all ECS manufacturers currently do anyway.

Giving customers' figures which they can identify as reliable will instill confidence that the machine can deliver accordingly. Being able to demonstrate - through distinct, defined separation testing protocols - the level of separation achievable and the value this potentially adds to the recovered material will help manufacturers when talking about the return on investment from a particular machine.

One of the challenges the industry faces is in ensuring the standard is communicated properly to customers. They will need to understand that it is not intended to be a measure relative to a material, but a performance indicator relative to the machines! Once established, the standard will give customers useful, relevant information which will support and enhance their purchasing decisions.

From an industry point of view, the standard would enhance customer confidence and can only be regarded as a good thing and the challenge is for the industry to come together to develop this idea.



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Regional Waste Recycling is first to install Advetec's industrial scale Bio-Thermic Digester

Handling 300,000 litres of liquid waste and 150 tonnes of municipal waste daily and achieving zero waste to landfill

London's Regional Waste Recycling (RWR) has chosen Advetec Technologies to install a new water treatment system. Central to the system will be Advetec's first industrial scale, Bio-Thermic Digester that will reduce organic waste from fat traps, septic tanks, filter cakes and municipal collections by 96%.

Regional Waste Recycling, which collects the majority of the liquid waste within the M25 area, treats over 300,000 litres of gully, septic tank, flood and industrially contaminated water and 150 Tonnes of municipal waste daily. After trials of a smaller Bio-Thermic Digester, Advetec, a leading UK specialist in the use of advanced environmental technologies for the treatment of effluent and waste, has just supplied and installed a new, industrial scale machine, which will process up to 33 tonnes of organic waste within 72 hours.

John Edwards, director of RWR says: "The smaller machine was regularly turning over 90% of organic waste into clean water and dry powder, so we're confident that the new, larger machine will cope with the huge volumes of solid sludge/organic waste we receive every day."

The result of eight years' development, Advetec's Bio-Thermic Digester is manufactured in the UK. Unique to Advetec's approach is its understanding of aerobic bacteria, the bio-stimulant technology used to invigorate and speed up the digestion process, combined with advanced engineering and continuous remote monitoring to ensure an optimal processing environment.

Advetec's Managing Director Craig Shaw says: "This first UK site will prove that our technology can reduce industrial quantities of contaminated water, fatty deposits and comingled waste by 96% to water and powder. Our technology will meet London's strict regulatory standards and deal with huge volumes of waste to make the goal of zero waste to landfill achievable."

From RWR's Materials Recycling facility black bag waste is shredded, crushed and segregated with the majority of heavy pieces of glass, sand, metal and plastics removed. The waste is then delivered in tankers to Stratford where the tromelled waste is washed to remove more sand, glass, metal and then entered into a centrifuge to separate the waste into solid and liquid. The organic waste then will go via hoppers and augers into the new Bio-Thermic Digester.



Heat from beneath the new container-sized BTM will maintain a controlled temperature and this, together with a regulated air supply and doses of proprietary bio nutrients, will remove moisture and promote oxygenation to reduce hard carbon particulates, fast. Finally residual metal, glass and plastics are removed, while the remaining organics are reduced to a fine, sterile powder.

Instead of typical landfill costs of £80/90 per tonne, RWR's costs will be around £1.99 per tonne to process on site, offering a typical return on investment within 18 months.

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Rotar RDP42 Pulveriser helps make light work of demolition of extra strong bomb proof radar station

A FORMER World War II bomb proof radar station is proving no match for a state-of-the-art piece of demolition machinery.

Durham-based demolition and asbestos removal experts, MGL Demolition are using the Rotar RDP42 Pulveriser, purchased from Worsley Plant near Manchester to make light work of demolishing the reinforced concrete station at RAF Boulmer.

The station, which used to have a 57-tonne radar on top is two stories high with roofs and floors which are 600mm thick and the walls up to 1 metre thick.

The work is part of one of eight contracts MGL are currently undertaking on behalf of Carillion Enterprise, an industry partner of the Defence Infrastructure Organisation (DIO) - the Ministry of Defence's (MOD) property and services provider.

The Pulveriser is the most recent addition to MGL Demolition's range of plant, and workmen are so impressed by its capabilities, they have already nicknamed it the 'Special One'.

Derek Watt, Contracts Manager for MGL Demolition, said: "We are extremely impressed with the Rotar RDP42. After seeing the demonstration that Worsley Plant arranged for us, we had no option but to buy it.

"It is extremely efficient on tough jobs and we are saving both time and money on projects due to its superior productivity. We are definitely looking at adding more Rotar demolition attachments to our range of equipment, and look forward to an ongoing relationship with Worsley Plant."

MGL Demolition first saw the Rotar RDP42 Pulveriser in action whilst at the Demolition Expo event in 2013 and were blown away by its capabilities.

Sean Heron, Managing Director of Worsley Plant, said: "We arranged for a demonstration at a project in Stafford on a reinforced barrelled concrete roof. MGL Demolition was so impressed with the Rotar brand that they bought it there and then. It is now the biggest Pulveriser in their range - they already have six others.

"The nature of this job meant demolition and removal was going to be an extra tough task and I'm pleased that the Rotar RDP42 is proving to be a key tool in achieving a good turnaround time on this project. Since purchasing the Pulveriser they are so pleased with its performance and with the Rotar brand they are now also looking at the RDC325 Combi Shear."

MGL Demolition's excavator, a Liebherr 954 34m high reach, has the Rotar RDP42 mounted onto it using its short boom. This has its own built in water suppressant system, which works very well alongside the shape and design of the Rotar.

The company can now utilise other plant on other works, as the RDP42 is so efficient at demolition and can be used to move and produce.

Whenever possible on their projects MGL aims to recycle as much material as they can. Using their mobile crusher MGL crush demolish materials and put them back into any voids left. For this project they estimate a 98% recycle rate.

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BlueMAC Achieves ISO Quality Management Accreditations

Specialist bespoke recycling plant manufacturer BlueMAC has achieved two stringent ISO quality and environmental management accreditations - ISO 9001:2008 and ISO 14001:2004. A further additional certification of the excellence of the company's production procedures comes with OHSAS 18001, which is awarded in recognition of BlueMAC's clearly defined management system to identify and control health and safety risks.

ISO 9001:2008 is a standard based on a number of quality management principles which include a strong customer focus, the motivation and involvement of management, the process approach and continual improvement thereof. Using ISO 9001:2008 helps to ensure that customers get consistent, high quality products and services which, in turn, brings many business benefits.

ISO 14001:2004 provides practical tools for companies and organisations looking to identify and control environmental impact and constantly improve environmental performance; it also sets out the criteria for an environmental management system. ISO 14001:2004 provides assurance to company management and employees as well as external stakeholders that environmental impact is being measured and improved.

OHSAS 18001 provides specifications for a clearly defined management system to identify and control health and safety risks. Organisations are able to minimise risks to their workforce, visitors and external contractors on their premises. The standard enables companies to put processes in place to continually review, improve and implement occupational health and safety.

Commenting on the company's accreditations, Director Pat McGeary said "Quality management system certifications to these standards are highly coveted and, we believe, somewhat rare in our industry. BlueMAC is justly proud to have achieved these accreditations which clearly reflect our way of working and the emphasis we have always placed on quality, health and safety and, of course, environmental sensitivity".



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Bunting Magnetics Europe to Exhibit Two New Magnetic Separators at RWM



Bunting Magnetics Europe Ltd is pleased to announce their presence at RWM 2014 (16th - 18th Sept 2014, Birmingham NEC), the UK's largest recycling and waste management show. You can find Bunting Magnetics at booth 4G121 with the main attractions being new to European markets.

Bunting Magnetics exhibit at RWM every year, usually showcasing the same equipment. This year it's different. What is known is that there will be a new Eddy Current Separator Rotor putting in an appearance alongside a Cross Belt Separator (or Overband Magnet). What isn't known, at the present time, is what makes this equipment different and new. All will be revealed in the run up to RWM on their new website (www.magneticseparation.co) and new twitter feed (@BuntingEurope).

Commenting on their RWM showing, Carlton Hicks, UK Sales Manager for Separation and Detection, said: "This is the first time this equipment has been shown in Europe, let alone the UK. You may be thinking that you have seen it all before, but we have some fantastic new features that we are sure will impress. We have listened to our customers problems, and solved them. There's not too much being given away at this stage but we are excited to see the reactions of both new and existing customers at the show."

To complement their new product offerings Bunting will also be showcasing their existing product range. This will include Grate Magnets, Plate Magnets, and Magnetic Drums for the separation of ferrous metal contamination from dry free-flowing material; and a range of Metal Detectors.

Bunting Magnetic Separators can be used alone or as part of a larger system for total metal separation. Drop by stand 4G121 to discuss existing and new applications and find out exactly what Bunting's new products can offer you.



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Smurfit Kappa installs one of the first "next generation" Bollegraaf HBC

Bollegraaf UK Ltd. and Smurfit Kappa have recently finalised the installation of one of the first "next generation" Bollegraaf HBC balers at their Blackburn site.



"A baler is at the heart of any paper recycling facility and Smurfit Kappa wanted to ensure the design of this new installation achieved the most efficient processing plant possible on the Blackburn site. A lot of time was spent at the design phase ensuring we optimised the material flows around the site and through the baling plant. We are very happy with the final installation and it stands us ready to grow the Blackburn business for many years to come." according to Simon Weston, Managing Director of Smurfit Kappa Recycling.

"With more than 50 years of experience, Bollegraaf is one of the most knowledgeable suppliers on the planet. We know there is no single specification for the composition of waste. This is why we believe versatility is key. It inspires us to engineer, build and deliver tailor-made solutions that are easy to use, have a low cost of ownership, perform to your specifications, and offer an excellent return on investment." says Andre Matula, Operations Manager at Bollegraaf UK Ltd.

"Bollegraaf has a long tradition in the production of 'best-in-class' balers and have recently introduced several innovations and upgrades to their existing line of HBC balers.



One of the most prominent features of these next generation balers is our innovative Variable Frequency Drive resulting in significant less energy consumption and less noise during operation. Bollegraaf already have the most efficient hydraulic block on the market, & combined with a baler that automatically has a standby mode after 180 seconds, Bollegraaf have truly gone one stage further by offering our customers the new Eco baler option. Running the main motors using variable-frequency drives, in the past a HBC 120S with a single 90kW main motor would start up in star delta mode and peaks high amps on start-up, with variable-frequency drive this is reduced to a minimum. Huge electrical savings are already being seen at Smurfit Kappa Blackburn."

Simon Weston continues: "The energy efficiency of the new baling machine was one of the main selection criteria for Smurfit Kappa, as part of its competitive purchasing process. Bollegraaf were the only company who offered comprehensive control of the main power hydraulic pack through a frequency inverter. We are already seeing substantial energy savings since the installation was switched on. When the baler is idle and waiting for new material, the power consumed is reduced, while ensuring the machine is ready at any time. Not only did we compare each potential supplier for energy efficiency, but Bollegraaf are also using an environmentally friendly paint finish on their baler. It is really important for Smurfit Kappa to select suppliers that are thinking of sustainable solutions in the design of their machines."

"We are not just active in an industry that's rapidly going green. At Bollegraaf we are also very aware of our own corporate responsibilities towards the environment. For instance, Bollegraaf's new water based paint is not only environmentally friendly (using captured & filtered rainwater to produce the paint) but it also has improved application and adhesion. Furthermore, Bollegraaf invests heavily in the latest innovations for reducing energy and oil consumption and uses only recycled materials for all communication and promotional activities. We are making a conscious effort to help protect our planet.", according to Andre Matula.

Besides energy efficiency and environmental aspects another important aspect for Smurfit Kappa and Bollegraaf was safety. Mark Montgomery, H&S and compliance manager at Smurfit Kappa Recycling: "Safety was a key element throughout the purchasing process. We wanted to supply our employees with the safest baler available that would also meet the requirements of BSEN 16252:2012. I believe we have done that with the Bollegraaf HBC 140. Working together we identified additional safety features such as extra access platforms, interlocked access points, conveyor reverse, auto lubrication systems and conveyor pit indicators. All the features identified were aimed at minimising working at height and the interaction between people and the machine. This includes employees and contract maintenance staff. Full training and support have been provided to all operators by Bollegraaf UK. I believe the end result is one of the most efficient and safest balers on the market to date."



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New horizontal baler and feed conveyor ups capacity for St Helier Municipal Services

St Helier Municipal Services in Jersey is increasing recycling capacity and throughput for commercial and residential waste by upgrading its baling operation with a new horizontal baler and feed conveyor from Middleton Engineering. This will increase flexibility to handle a wider range of waste streams and enable the team to produce highly compact mill size bales to drive transportation efficiencies.

Responsible for the collection and processing of card and packaging waste from 70% of the parish of St Helier's commercial properties, together with residential recycling which accounts for one third of the population, the investment is a natural progression to improve the functioning of the St Helier Parish recycling operation.

Jersey has a zero landfill policy so any waste that is not recycled is incinerated at the Island's Energy from Waste (EFW) plant. The goal is to remove as much recyclable material as possible and these commodities are then baled and shipped off island for processing in France, the closest destination.

Transportation is the biggest expense and, in addition to improved throughput, a key requirement is to produce high quality compact bales, to ensure each container carries a maximum load, and at the same time satisfy St Helier's French recycling partner and the reprocessing mills.



The new solution is a Middleton ME80 closed-end, semi-automatic, horizontal baler with a bespoke feed conveyor. Where previously the team was only able to produce one bale per hour using a manually operated vertical baler, they are now achieving three in the same time and clearing the commodity as it comes in.

Piers Tharme, Facilities & Resources Manager, explains: "We needed a solution that would deliver instant improvements but one that could also be enhanced as requirements grow. With many suppliers the attitude seems to be very much you get what is supplied or you need to buy the next model up. Middletons were extremely helpful from the off, nothing was too difficult and we quickly got a sense that we could work well together."

Selecting Middletons was partly due to a fortuitous visit to municipal colleagues in Alderney on another matter. "We noticed that they were also using a Middleton



baling press and when asked they had nothing but praise. Guernsey also uses a Middleton's solution and knowing that this relationship already existed with the Islands really helped."

"The experience has been extremely good from the first contact and initial site visit, through installation, commissioning and training. Middletons gave us a timescale and stuck to it. Essentially we were offline for just one day and baling in the afternoon. When it works like that it gives you massive confidence."

Previously the St Helier team was unable to produce stable bales of paper and card and consequently weren't achieving the best prices for these commodities. Now the team is able to deal with everything, producing a consistently well shaped and stable product, and because they can now manage other commodities all with the same machine, there are financial benefits to be had - rather than passing these on.

Piers Tharme concluded: "The beauty is, now that we are able to increase our processing ability and have confidence in the solution, we can focus on the business of promoting additional kerbside recycling and further support the Island's recycling ambition."



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RESOURCE EFFICIENCY AND WASTE MANAGEMENT SOLUTIONS

This September, the NEC in Birmingham once again plays host to RWM in partnership with CIWM, Europe's leading resource efficiency and waste management event. With over 750 exhibitors expected, the exhibition is free to attend and runs from 16 to 18 September (register for free at www.rwmexhibition.com).

New this year is the Circular Economy Connect zone (sponsored by SITA), which offers a new theatre programme focused on addressing methods and approaches to closing the resources loop. It will also provide a space where visitors can network, share ideas and find new resource management solutions to help them move towards a more circular economy. For more information, visit www.circulareconomyconnect.com.

The three-day RWM event has been created in partnership with CIWM and is supported by the Environmental Services Association (ESA), the Resource Association, WRAP, LARAC, Carbon Trust, The Environmental Industries Commission and the Organics Recycling Group.

Exhibitors

The latest products and innovations in resource management from across the environment industry sector will be on show at RWM. Confirmed exhibitors include world leading plant and vehicle suppliers JCB, who will showcase the new 560-80 Wastemaster telehandler, Isuzu Trucks, Finning (UK suppliers of Cat machinery) and Mercedes Benz.

Many of the top bulk handling specialists will exhibit, including Untha, the country's leading provider of waste shredders, plus world class handling equipment providers Terberg Matec, whose product roster includes bin lifts, refuse collection vehicles and underground waste collection systems. Bulk Handling Systems (BHS) will also be in attendance to showcase their unparalleled sorting and handling systems with recovery rates in excess of 99%. Allen Steam Turbines Part Of The Weir Group and Rossi Gear Motors will also be on hand to offer advice.

Also exhibiting is Mogensen, a leading manufacturer of vibratory raw materials handling equipment. The company draws on over 50 years of experience in the field supplying screens, sizers and feeders and has earned an enviable reputation for quality, reliability and after-sales service.

Elsewhere, KTR Couplings has more than 50 years experience as a manufacturer of flexible power transmission couplings with designs covering shaft-to-shaft and diesel engine flywheel applications. KTR also manufacture a range of oil/air blast coolers, hydraulic and electro-mechanical brakes, steel/aluminium tanks, and a range of hydraulic accessories and damping elements.

Visitors shouldn't miss Terex Environmental Equipment's stand - an industry leader in the design and manufacture of wood processing, biomass and recycling equipment with a huge range of products.



CMB International provide leading edge crushing and screening equipment for the material processing industry. They will showcase the RC150, which is a towable jaw crusher that can process up to 50tph and is the perfect, cost effective solution for any moderately sized crushing application

Case Construction offers a full line of construction equipment, including the award winning crawler excavators. Also available is the new '8' series wheel excavators, wheel loaders, crawler dozers, skid steers and backhoe loaders.

Those interested in magnetic separation should visit world authority Eriez' stand. And don't miss Bunting Magnetics Europe and Magnapower Equipment who provide magnetic separation equipment, eddy current separators and ancillary equipment. Master Magnets offers the widest range of industrial magnets in the world.

Interested in maintenance? Check out Wheelwash, which for 25 years has been supplying the UK's largest range of effective wheel cleaning equipment for use on any site that may track dirt and debris on to public roads. The equipment is automatically operated, requires no or low power and recycles any water it uses.

Recycling materials

As always, there will be many exhibitors focusing on recycling. Countrystyle Recycling, for example, are capable of handling and processing almost all forms of waste and they offer a fully auditable approach which complies with all EU and Government waste legislation. Hills Waste Solutions also deal with many kinds of waste, including hazardous waste and asbestos and will be available on their stand for advice. For aluminium drinks cans, visit the Novelis stand and for plastics recycling it's worth visiting Biffa Polymers.

Visitors looking for support and services to deal with waste electronic equipment and meeting WEEE legislation should head to Clarity Environmental. They offer cost-effective and high quality compliance schemes under the packaging and WEEE regulations alongside collections of scrap lead acid batteries and catalytic converters across the UK. ACB Ltd. also deal with electronic equipment, and pre-treat smoke detectors and other WEEE containing radioactive materials to ensure they are recycled safely and cost effectively.

Free RWM CPD-accredited conference programme

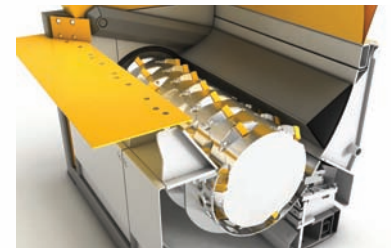
This year's conference programme, featuring more than 70 seminars, has been developed through intensive peer reviewed research with industry bodies such as the CIWM. Key issues to be addressed in the conference include the latest recycling legislation and targets from Britain and the EU, packaging and PRNs, WEEE regulations, the circular economy, financing infrastructure and waste prevention.

The brand new Circular Economy Connect (CEC) Theatre is generating much interest, addressing the key issues and barriers to creating a more circular economy, as well as investigating those who can best benefit from the closed-loop model.



Since its inception, Circular Economy Connect has seen steady support from the industry, with an agenda that has expanded to include senior speakers from both the public and private sectors. Sir Stuart Rose, chairman of Ocado, is one of more than 40 speakers in the Circular Economy Connect theatre.

A snapshot of other speakers includes Dr Kirstie McIntyre, director of social environmental responsibility at Hewlett Packard, Nigel Marsh, global head of environment at Rolls-Royce and Walter Stahel, founder-director of the Product-Life Institute. John Hutton, head of sustainability at BAM Nuttall Ltd., James Walker, group head of innovation at Kingfisher and Lars Lundquist, packaging environmental sustainability expert at Nestlé will also share their insights.



Local Authority Theatre

Local Authority waste needs, including best-practice case studies, TEEP guidelines and targeting recycling engagement, will be addressed in more than 15 seminars in the Local Authority Theatre. The Rt Hon Eric Pickles MP, secretary of state for communities and local government will deliver the ministerial keynote speech at this year's RWM in partnership with CIWM on the morning of 17 September.

The Local Authority Theatre, one of three free to attend CPD accredited theatres at RWM, will provide advice and first hand experience from both government and industry leaders. Tackling councils' waste needs, discussions will include best-practice case studies, TEEP guidelines and targeting recycling engagement. This is of particular relevance to councils following the European Commission's new 70% recycling targets by 2030 announced in early July.

Energy from Waste Theatre

The Energy from Waste Theatre brings together experts from across Europe who will present the latest energy generation innovations, from waste companies to technology owners and developers. Speakers include Adam Read, practice director at Ricardo-AEA, Stuart Pohler, recovered paper sector manager at the Confederation of Paper Industries and Chindarat Taylor, director at Resource Efficiency Pathway.

RWM in partnership with CIWM is free to attend and takes place from 16 to 18 September 2014 in halls 4 and 5 at the NEC, Birmingham. The event is co-located with The Water Event, The Energy Event and The Renewables Event, all taking place on 16 and 17 September 2014 in halls 3 and 3a at the NEC. Registration (sponsored by Novelis) is available at www.rwmexhibition.com. To enquire about exhibiting, please call 020 3033 2159 or email info@rwmexhibition.com.

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Mogensen will exhibit a vibratory screen ideal for the recycling industry



The Mogensen stand at this year's RWM Show will feature a Type SRS1 1700/1000 -L236 single-deck vibratory screen (screen deck 1700mm x 1000mm), an inexpensive machine widely supplied to the recycling industry for relatively small throughput scalping and "policing" duties such as the removal of bulky, low-density materials, e.g. paper, cardboard, plastic and fibrous matter, from heavier, smaller-size feed components.

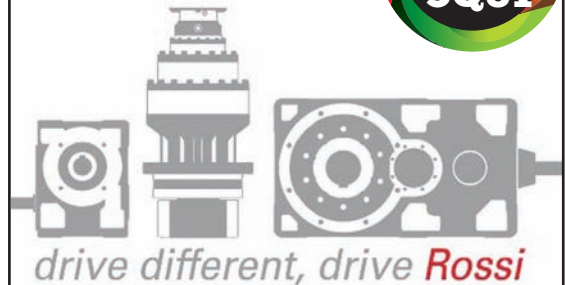
The screen is driven by a 1165 W Invicta rotary electric vibrator, Type BLz30-23/6, offering a maximum centrifugal force output of 10790 N. The vibrator may be rotated either forward or in reverse in order to vary the speed of travel of materials over the screen surface. The angle of decline of the screen deck may be easily adjusted through an arc of 0 to 30° to provide further control over the screening action.

Mogensen screens, feeders and conveyors in both standard and custom-designed versions are in widespread use in the recycling industry. They are handling various materials including used tyres and scrap rubber; miscellaneous scrap glass; wood waste; bone meal and other biomass materials; compost; aerosol cans, other scrap metal; recycled concrete and aggregates; plaster board and mixed textile and plastic waste.

Mogensen at RWM 2014 (16th to 18th September): Stand Number 5R01

 www.hub-4.com/directory/583

Rossi Geared Motors



Rossi Gear Motors Ltd. is an affiliated company of the Italian Rossi SpA

situated in Modena Italy, one of the largest manufacturers of Gear Reducers and Gearmotors in Europe. Rossi Spa is part of the Habasit Ag group of companies. The company has had a direct presence in the United Kingdom for over 25 years and has a well established sales force, as well as a strong technical engineering team, focused specifically on adding value to the companies customer base. The company is primarily involved in the design and manufacture of gearboxes, geared motors and electric motors.

Rossi geared motors have a diverse product offering and together with the Rossi Engineering division are able to offer one off solutions as well as serial production requirements to meet the most arduous applications.

Products being exhibited

- Helical bevel and helical parallel shaft reducers
- Planetary reducers
- Worm Gear reducers
- Electric motors
- Frequency inverters



 www.hub-4.com/directory/2127

Presona UK to launch energy efficient baler at RWM 2014

Presona UK will launch a new, energy efficient Pre-Press Technology Baler at RWM this year. The latest addition to the popular LP Series, the LP 60 VH Baler builds on the design and efficiency principles introduced by its predecessors, the LP 85 VH launched at RWM 2013 and the LP110 CH launched at IFAT 2014.



**STAND
4C130
-D131**

Key features of this high quality, robust system are being kept under wraps, but visitors to the exhibition should be aware that it has the capability to cut energy consumption by as much as 50% when compared to a baler without pre-press capability. This represents a considerable saving in terms of operational costs.

Presona's LP Series of fully automatic balers is renowned for being reliable, easy to operate and cost efficient. Used in recycling operations worldwide, Presona operates a continuous improvement programme to ensure that LP Series Balers can withstand the rigorous demands of this rugged, high throughput environment. It also ensures that they offer maximum efficiency when processing the current material mix.

For more information about the LP 60 VH, please visit the Presona UK team on stand 4C130 D131.



www.hub-4.com/directory/11754

New JCB machines offer efficiencies and cost savings at RWM

Two brand new machines for the waste and recycling industries will be launched at RWM 2014 - further building on the pedigree and success of JCB's products for these important sectors.

RWM will see the UK waste industry debut for the powerful JCB 457ZX Wastemaster, a striking new wheeled loader, which comes complete with the all new JCB CommandPlus cab. The innovative design of the new cab contributes to improved visibility, lower noise levels, increased internal space and an enhanced working environment for the operator.

Also making its first appearance at RWM will be the new 5CX Wastemaster, which is fitted with a package of purpose-built features tailor-made for arduous waste environments. This new model further expands JCB's well-established range for the waste and recycling industry, which delivers unprecedented levels of efficiency, versatility and cost savings.

The JCB TLT 35D 4x4 Teletruk will complete the stand. Powered by a Stage IIIB/Tier 4 Final JCB Diesel by Kohler engine, this machine offers customers fuel savings of up to 32% compared to the model it replaces, and comes with a 3,000 hour warranty.

Fred Bell, JCB's Waste and Recycling Business Manager, said: "We have some exciting products to bring to RWM, machines that offer new ways of tackling the daily challenges our customers face, while bringing massive fuel efficiency savings to their operations."



**STAND
5P20
-R21**

To find out more about JCB's machines for the waste and recycling industries, visit stand 5P20-R21 at RWM 2014.



www.hub-4.com/directory/458

Reducing the Risks: Best Practice for Manual Handling

Regardless of the industry in which a business operates, manual handling presents real risks to the company and the workforce.

As well as providing an unwelcome interruption to the working and personal lives of those involved, manual handling injuries also affect the companies they work for, causing disruption, lost days and a resulting dip in productivity. In the period 2011/12 the UK lost around 1.2 million lost working days as a result of manual handling injuries alone.

There are well documented regulations surrounding manual handling and helpful guidance is available from the HSE. As a head start, Mentor provide some useful tips to help those responsible for overseeing or carrying out manual handling operations to stay aware of the risks involved.

Key questions

A risk assessment should be carried out before every manual handling task but, contrary to popular belief, it doesn't always have to be a lengthy process. It should be documented but it can take a matter of minutes and just involves making a few sensible decisions.

Asking the following questions can help make sure the task is completed as safely as possible:

- Reconsider whether the manual portion of the task is definitely necessary. Just because things have been done a certain way historically, doesn't mean this is the safest way. Could the need for some or all of the manual handling elements of the task be eliminated?
- Think about whether it is possible to automate/mechanise all or part of the task. Could a machine move, lift or carry the load instead? Could a fork lift truck be used, for example?
- There's a wide range of manual handling aids on the market, designed specifically to help people in the handling of loads. Are there any that could help with part of the task? Perhaps a sack barrow could be used to carry a heavy load from A to B, rather than doing it by hand?
- Have those carrying out the task received the proper training? Manual handling training specific to the task will help ensure those involved are equipped with the skills and knowledge to do so as safely as possible. A good training course will highlight the correct lifting techniques and raise awareness of the dangers of bad practice.

If the task is still deemed unsafe, it should not be carried out. Employers have a responsibility to implement processes and procedures to protect employees and reduce the risks of a manual handling injury. They must make sure their employees are aware of these processes and that they are implemented and adhered to.

Cover all aspects

Ensure risk assessments are always comprehensive by considering the following four aspects of any manual handling task:

What is the required task?

Consider the distance that will need to be travelled, the route to be taken and the action required. Is the task repetitive? Does it involve bending and twisting? If so, are you required to move the body through angles greater than 45 and 90 degrees? Does it involve a sustained fixed posture?

Consider the capability of the individual

Remember that everyone is different; always consider the age, gender and build of those required to carry out the task, and whether they have any injuries or disabilities. The question anyone carrying out a manual handling task needs to ask themselves is... "am I capable?" If not, seek assistance.

Does the load present any specific problems?

Assess whether the load presents any potential dangers in its natural state. Is it hot, cold or sharp? Is it an odd shape or unevenly spaced? Is its centre of gravity off centre? Is it likely to move as it is handled? Some loads are intrinsically harmful by design, for example, anything with blades or teeth - these should be handled with due care.

Will the working environment have an effect on the task?

If the task involves moving through different areas, ensure that all environments are assessed, from the ground conditions to the surrounding atmosphere. Is the temperature hot or cold? Are there any steps or slopes to negotiate? Is there the chance of strong air movement or inclement weather?

By sparing a few minutes to consider the risks, individuals and businesses could save a great deal of disruption, countless lost days and thousands of pounds in lost profits.

For further guidance on best practice for manual handling, visit Mentor at RWM on stand 4H92-J93 or call 01246 555222.



Liebherr specialist machines for waste management



The recycling industry is growing rapidly – and it is changing. In recent years, many waste disposal companies have developed from generalists to highly specialised recycling operations. This has brought with it a whole new set of challenges to be met by the machines used in the recycling industry. Liebherr acknowledges this and develops machines and equipment options for every need and application.

Because we manufacture many different components ourselves, for example engines, fuel injection systems, Liebherr specialist machines for waste management hydraulic cylinders, etc. which have to be optimally configured for each other, Liebherr offers extremely capable, yet efficient machines. Even during the development of these components, the requirements of later applications are taken into account to ensure that Liebherr specialist machines are optimally prepared for every feasible working situation.

Liebherr materials handling machines are used for a wide variety of tasks in the recycling and waste management sector. Mobile material handling machines, crawler material handlers, wheel loaders, telescopic handlers, bulldozers and crawler loaders all sort, separate and load recyclables and solid waste quickly and reliably. These materials range from glass, metal, wood and paper to agricultural waste, to name just a few.

At the RWM show we will be exhibiting two machines which visitors will be able to inspect close up.

- **the Liebherr LH22M a 22 tonne material re-handler with rising cab**
- **the Liebherr L542p 13 tonne wheeled loader with a 4m3 bucket in waste specification.**

Visitors will also be able to meet with our product specialists for our range of products, who can advise on the customer's particular needs and issues. Our specialists are knowledgeable in both products and their application and often are able to suggest new methods or refinements to help increase efficiency and savings with both established and new customers. It is our aim to ensure that users can gain the maximum efficiency and savings possible whilst using Liebherr products, do drop by to find out what we can do for your business.

Our second hand specialists will be available along with our rental team to offer alternative solutions to your needs be they short or longer term, purchase, rent or finance.



Fuel efficiency is a key part of the Liebherr offering with up to 30% saving on fuel being achieved. Our on line application shows this with live customer data collected from thousands of hours of operation in working machines. Using the Liebherr real time monitoring system LiDAT we are able to aggregate information from hundreds of machine over thousands of hours to see how our machines really perform in the field.

The information is regularly updated to take account of new information being received. For example as of the 30th July 2014 the LH22M on average uses 8.29 L/hr based on 86,278 hours of operation in the field.

Check out the link below to see how much you can save.

<http://m.encyplus.liebherr.com/en-GB/147500.wfw>



Liebherr LH22M material re-handler on display

The LH 22 M Litronic is the smallest machine type in the Liebherr product portfolio that is specially designed for material handling. The material handler unites comfort, power and reliability, and is furthermore convincing with its groundbreaking fuel efficiency at large loads and long reaches. Despite its compact dimensions, the material handler is exceptionally powerful, agile and versatile in its field of application.

Powerful yet efficient. Liebherr manages this difficult balancing act thanks to its mature engine technology, which it produces itself, and optimised, demand-responsive hydraulics. Compared to the previous generation, fuel consumption has been reduced by up to 30%, yet the Liebherr handlers have remained top performers in their class. The exhaust gas after treatment system features a Liebherr particulate filter, which is fitted as standard or is available as an option on the smaller machines (LH 22 to LH 26), for example for indoor operations. The service-orientated construction of the machine guarantees short maintenance periods and minimises the associated maintenance costs thanks to the shorter servicing.

Liebherr L542p wheeled loader on display

The new Stage IIIB / Tier 4i Wheel Loader L 542 is right in the lead when it comes to economy and environmental friendliness. It uses up to 25% less fuel than comparable machines from other manufacturers, under the same operating conditions.

Up to 8% of this fuel advantage is achieved thanks to the new "Liebherr Power Efficiency" (LPE) system. By intelligent management of the individual



units, LPE reduces both fuel consumption and component wear, with the engine management under pro-active control and with all the engine map characteristics and parameters being taken into account. LPE recognizes the performance profile required by the operator, and puts it into action with maximum performance output, in the most efficient way possible.

And thanks to the tried and trusted Liebherr travel drive, tyre wear is, as usual, reduced by up to 25%, and the service brake is practically free of wear altogether. Increased productivity thanks to first-class comfort and convenience: The cab is particularly spacious and comfortable. All the operating elements are ergonomically perfectly matched to one another, while the hydraulic cab bearing system substantially reduces vibrations and noise burden in the interior of the cab.

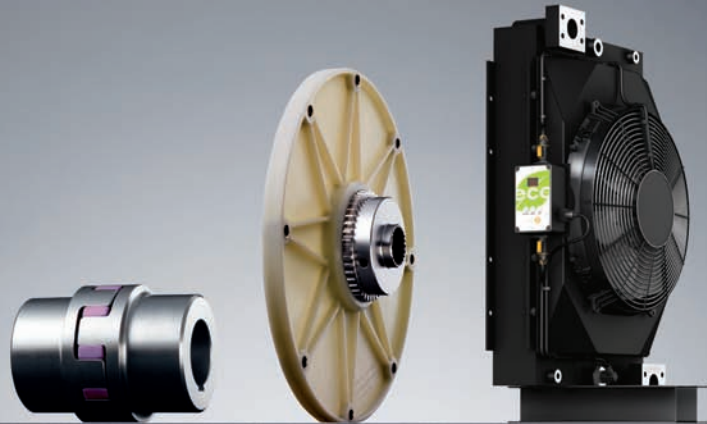
The new generation of Stage IIIB diesel engines is now even more environmentally friendly and there have been many other improvements too; precision common-rail fuel injection optimises the combustion process and reduces pollutant emissions. Exhaust emission control uses a diesel oxidating catalytic converter combined with a diesel particulate filter. In most situations, this filter can be actively regenerated by burning off deposits during operation of the machine, and the work in progress continued without interruption.

The Liebherr driveline allows different orientation for the diesel engine. In this wheel loader class, the diesel engine is rotated through 90° and mounted transverse to the direction of travel. Compared to conventionally driven wheel loaders, the operating weight is much lower, the tipping load is higher, and more material can be moved each operating hour.



LIEBHERR

www.hub-4.com/directory/504



Driving Waste Management

KTR manufacture a range of flexible shaft-to-shaft & diesel flywheel couplings for shredders, portable trommels, and other screening equipment. KTR also manufacture standard and bespoke oil/air blast coolers, available with new "eco" monitoring for optimised energy consumption.

www.ktr.com

HOWCROFT NEWS



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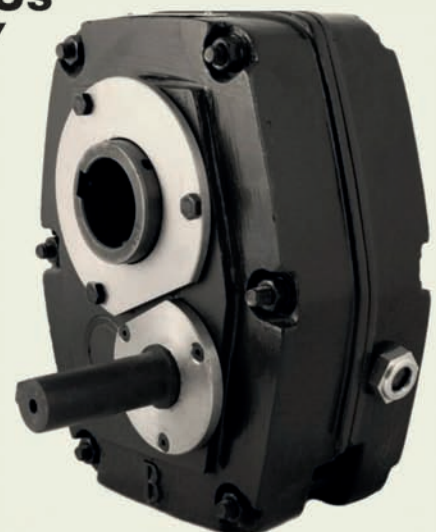
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Howcroft Industrial Supplies has increased its stock holdings of Shaft Mounted Gear Units now available for same or next day delivery. In addition, H.I.S. also holds appropriate Torque Arms, Reducing Bushes and Sprag Clutches that are also fully interchangeable with other manufacturer's SMGUs.

The H.I.S. SMGUs offer many benefits such as the ability to mount directly to the shaft, a sturdy economical and compact design

that is suitable for both forwards and reverse motions and backstops available. Moreover, the H.I.S. SMGUs are also manufactured in nine different sizes each available in the following ratios: 5:1, 13:1 and 20:1.

Howcroft Industrial Supplies welcomes your enquiries and is willing and able to supply further information upon request. Contact its proficient and friendly staff on 01709 878 282.



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See the CMB International RC150 Rubble Crusher at the RWM.

Recently exhibited at the Hillhead 2014 exhibition, this new innovative machine created a huge amount of interest and lots of enquiries.

As an established manufacturer and service provider in the Aggregates industry this is a completely new venture for CMB International which has been designed and developed utilising all their in-house expertise over the last two years at their Ravenstone HQ in Leicestershire.

The ULTIMATE machine.

The RC150 Rubble Crusher is the ultimate, self-contained mobile crusher; a simple but extremely effective machine. A robust build coupled with minimal maintenance the RC150 is easily towed by light vehicle to your destination of choice to crush or recycle material, with immediate start-up to produce crushed material.

The RC150 Rubble Crusher has numerous applications:

- Recycling
- Demolition
- Infrastructure
- Natural stone quarrying, mines, gravel pits and river beds.
- Gold mining

The advantages of the new **RC150 Rubble Crusher** enable the user to become time efficient and eliminate unwanted costs by crushing on site enabling re-use immediately.

Environmentally friendly the RC150 is a true 'green' machine with huge cost savings instantly available eliminating landfill costs, skip hire, transportation costs, external crushing and bought aggregates from quarries all removed from the processing equation.



**STAND
4F154**

With three models currently available including a 'stand-alone' crusher the new RC150 Rubble Crusher is simply a 'total solution' for low to moderate crushing projects; featuring a 650 x 350 single toggle jaw crusher (throughput capacity of 10-60tph) mounted on a heavy duty chassis, complete with fixed hopper and foldable conveyor. With no electrics required the RC150 is powered by a Hatz 3L41C air cooled silent pack diesel engine, 28kW@1800rpm with 22.5kW phase electrics.

Available for on-site demonstrations the new machine will be exhibited at the forthcoming RWM exhibition held at the NEC from September 16th-18th.

Come along and see this amazing machine on stand 4F154 in the Machinery and Equipment zone.



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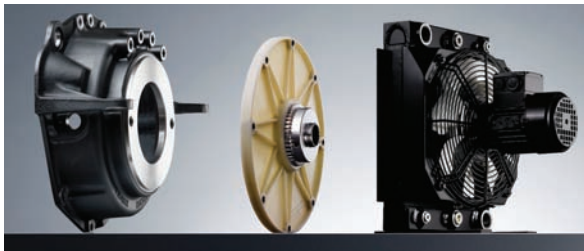
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Please visit us on Stand T07 - Hall 5S06 at the RWM in Birmingham from 16 until 18 September 2014

KTR Couplings Ltd

KTR is a global manufacturer of flexible couplings for shaft-to-shaft and diesel flywheel applications. With over 50 years experience, KTR product portfolio has expanded to include industrial brakes, oil/air blast coolers, steel and aluminium tanks, and a range of hydraulic accessories.



Available in both standard and bespoke designs, KTR's range of flange couplings, for connecting hydraulic pumps to diesel engine fly-wheels, are well suited to the demands of the mobile and static waste management industry. KTR is known for producing high quality components; it's MONOLASTIC and BoWex FLE-PA couplings feature on many top screener and crusher designs, as well as a wide range of excavators, diggers, backhoes and other equipment.

KTR also offer a range of bellhousing and pump mounting plates to suit all pump, motor and diesel engine types.

KTR offers multiple designs for shaft-to-shaft connections including well known brands such as: ROTEX - jaw couplings, BoWex - nylon gear couplings, GEARex - all steel gear couplings, and RADEX & RIGIFLEX - steel lamina couplings. A full range of torque limiters and clamping hubs are also available.

KTR's standard range of OAC coolers include 12V, 24V, 230V/400V and hydraulic fan drive options, with ATEX approval for sizes 200 and above. The MMC combi-cooler provides the bespoke design capability to simultaneously cool up to 4 different media in one housing, saving you space and money.

KTR Couplings Ltd, based in Sheffield, opened in 1999 to provide a high quality local service to customers in the UK and Ireland. KTR UK is supported by in-house R&D and testing facilities based in Rheine, Germany. As a group, KTR work on over 10,000 new bespoke developments each year which is why KTR is regarded as a driving force for innovation within the power transmission industry. Furthermore, KTR is an ISO 90001 & 14001 certified company with multiple other product and service industry certifications.

Products being exhibited

- ROTEX SH
- ROTEX AH 90
- BoWex HEW Compact
- BoWex HE G 150 + 42 HE
- BoWex MONOLASTIC
- BoWex T65 FLE-PA & FLE-PAC
- OAC 900



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www.hub-4.com/directory/8290



BJD Crushers for Precious Metals Recovery



One of the BJD Hammermill packages supplied to Tetronics International.

UK crushing equipment manufacturer, BJD Crushers Ltd, has supplied three of its Hammermill crusher units for installation in plants which extract precious metals from spent automotive catalytic converters.

Supplied to global waste recovery specialist Tetronics International, each BJD 15x8 Hammermill is incorporated into one of Tetronics' Plasma Arc precious metal recovery systems, which are capable of metal recovery rates of 98% or better. The valuable metal, recovered by the plasma arc smelting process, is first cast into sheet form before being crushed in the Hammermill to a required product size of 30 microns, making it ready for sampling and further processing. Planned for installation in Europe, the crusher order came on the back of an order for two identical machines supplied for Tetronics plants in the Far East.

BJD 15x8 Hammermills feature a heavy cast iron frame with heavy-duty renewable liners, and are fitted with a screen arrangement to match the duty. Mounted on a base frame, the modular packages supplied to Tetronics International, comprise Hammermill crusher, fully guarded drive arrangement and 15kW electric motor.

BJD Hammermills have, over the years, acquired an enviable reputation for being 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.



www.hub-4.com/directory/119

REVX-E ST22 Eddy Current Separators newly installed for glass cullet application



Eriez Demonstrates Non-Ferrous Fines Separation at RWM

Eriez Magnetics Europe Ltd will be present at RWM 2014 held between 16th and 18th of September at the NEC, Birmingham, UK and demonstrate new developments with its range of eddy current separators (ECS) RevX-E. This advanced equipment will enable waste processors to achieve an extremely high level separation of non-ferrous material from waste material fines.

Eriez' eddy current separator (ECS) RevX-E achieves significantly greater separation of valuable nonferrous metals than existing market-leading products and can be applied to a wide variety of mixed waste streams. It enables materials recycling facility (MRF) operators to optimise revenue and profit from fines material waste.

Eriez has developed two rotors for fines separation: the ST2 for materials typically above 25mm in diameter and the ST22 model for particle sizes less than 25mm. The eddy current separator ST22 model is at the forefront of nonferrous metal separation. Combining an ultra-thin carbon-fibre shell, advanced magnet circuitry and specially designed splitter plate, Eriez RevX-E ST22 Eddy Current Separator achieves the highest grade of separation for fines nonferrous metals in the industry today.

Eriez Europe Sales Director Gareth Meese said: "Eriez's new developments in nonferrous metal recovery will allow recyclers and waste processors to stop throwing away money to

landfill. So far, we have seen customers achieve an aluminium flake reduction of 92% from a single pass or a clean PET flake yield of between 97 and 99%."

"These superb pieces of equipment go to show what good R&D-based design can achieve."

"Visitors to RWM 2014 are invited to bring their samples of fine waste materials for testing on our RevX-E eddy current separator. Customers are also welcome to send their samples to our facilities in Caerphilly, South Wales, so that we can run tests and provide them with an expected nonferrous recovery rate. Please contact Eriez to book arrangements.

Further information is also available on our specialist website at www.recovery.eriez.com.

Eriez will also display its new Rare Earth Overband Magnetic Separator, the CP RE, which is 60% lighter than conventional model, maintaining the same magnetic separation characteristics of the standard overband magnet.

Another standard piece of equipment, our Prograde magnetic drum, will also be on the stand. This ferrite drum is a part of the Eriez Prograde range and is available off-the-shelf.

Visitors to RWM 2014 can also see 2 example of Eriez metal detection range with the EZTEC 9100 metal separation station which is ideal as a last chance cleaning station and the MA3500 metal detector, part of Eriez's Metalarm range used for machinery protection such as granulators and shredders and quality control.

www.hub-4.com/directory/280

**STAND
5S142
-T143**



TrommALL® at the RWM Show

TrommALL are based in central Ireland focussed on manufacturing and distributing mobile Trommel machinery worldwide. Our philosophy "overbuilt to outperform" is based on an experience of 25 years working in the industry and we manufacture equipment based on its ability to perform and not on its profit margin. TrommALL has been designed with ease of use in mind. It has a rapid setup time just under five minutes, is very easily moved and the drum is interchangeable. Combined with a solid chassis frame the TrommALL 5100 Tr is a solid compact screening unit. A mobile trommel screen and stockpiling unit designed to handle the toughest screening applications; this machine is highly manoeuvrable and manufactured to withstand the toughest environments.



**STAND
0A139**

TrommALL's renowned philosophy "overbuilt to outperform" has proven accurate over the last year with sales greatly exceeding expectations. The compact nature of the tracked 5100Tr trommel screen in particular has now earned the reputation of having a "small footprint but large presence". Built at the factory in central Ireland, the TrommALL range of machinery is built to operate in compact surroundings with minimal disruption to yard space, making the machines easily transportable.

TrommALL®

Unit 25 Bay Road Business Park, Mountmellick, Co. Laois, Ireland.

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Turnkey Systems from IQR Solutions



**STAND
4E120
-F121**

IQR Solutions design turnkey systems, be it for crushing, shredding or the build of a CHP-plant with all interlinked. In this way we convert our ideas into reality and prove that environmental work can be profitable.

On our stand this year we will have our magnet grapple which is controlled by an on/off switch to enable quick, easy and safe ferrous removal.

Waste to Energy - Profitable energy recovery from waste materials Industrial Quality Recycling (IQR) Works with systems and solutions for energy recovery from waste materials. Nowadays our system for the recycling of wood waste, household waste and other types of industrial waste materials is used right across Europe. It sets the standards for how waste materials can be transformed into energy. IQR consists of a number of business areas, all of which work

together to create advanced systems for energy recovery. A new business line is the manufacturing of wood waste gasification technology in the range 6-15MW thermal. Our work is made up of a number of elements, but overall our target is the same: to develop sustainable solutions to help us recover energy from worn-out materials. IQR Solutions design turnkey systems, be it for crushing, shredding or the build of a CHP-



plant with all interlinked. In this way we convert our ideas into reality and prove that environmental work can be profitable.

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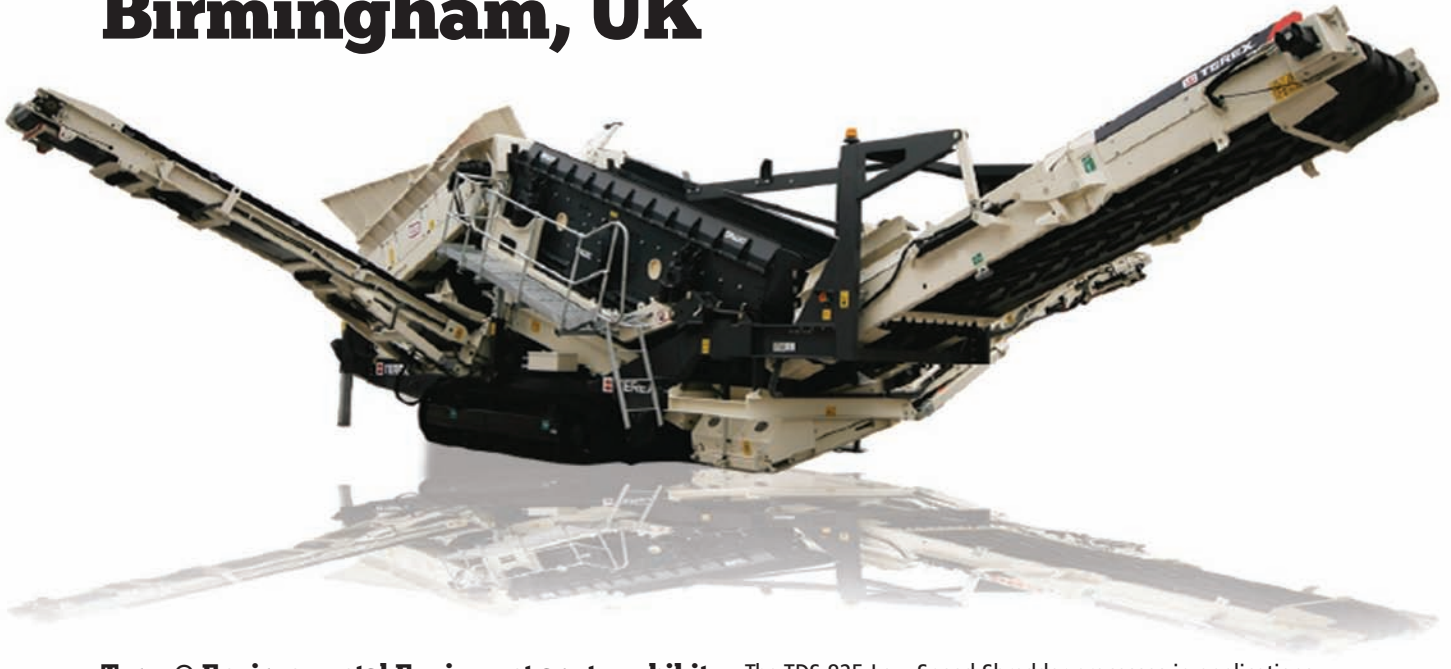


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www.iqr.se



www.hub-4.com/directory/8987

Terex® Environmental Equipment to exhibit at the RWM Show in Birmingham, UK



Terex® Environmental Equipment are to exhibit at the Recycling Waste Management Show in Birmingham UK , 16 - 18 September 2014. The attendance at this show sees TEE move from a previously North American based distribution strategy into the rest of the world, as part of the ongoing expansion with their product portfolio.

TEE Business Line Director, Martin Dummigan, commented, "As part of the TEE business development we have focused on expanding our distribution and product strategy into what we believe is a position of strength in the current market place. We have made, and continue to make significant investment in Terex Environmental Equipment , which includes product development, investment in facilities globally and team member resource.

Since the appointment of our International Sales Director, Conor Hegarty, we have received significant interest in our products from the rest of the world. This is from both potential dealers and prospective new customers. We are delighted with our current aggressive product development strategy, which will see Terex Environmental Equipment taking a truly global approach in the wood processing, biomass and recycling industries. We look forward to providing wood processing, biomass and recycling solutions for customers around the world".

TEE's new products include the TRS 550 Recycling Screen with Spaleck technology, the TDS 825 Low Speed Shredder.

The TRS 550 Spaleck Screen is the ultimate in mobile screening and separation technology. At the heart of the screen is the 2 deck German designed and constructed high performance recycling waste screen with Flip-Flow-Screen Elastica. The unique stepped top deck design combined with state of the art flip flow technology on the bottom deck catapults the Terex Recycling Screen into a class of its own.

The TDS 825 Low Speed Shredder processes in applications such as Bio Waste, MSW, C & D, Shredder Light and Heavy Fraction. At the heart of the machine is a double shaft low speed shredder with product advantages and options such as special rotor shaft bearing and gearbox protection system,



**STAND
5V171**

individually and infinitely variable adjust shaft, no "wrapping" on the shafts due to developed cleaning systems, energy diesel saving system of up to 25%, and low wear costs.

Please come and visit the Terex Environmental Equipment stand number 5V171 to speak to our specialists in sales, products and customer support.



www.hub-4.com/directory/16888

Conveyortek design and manufacture for the recycling sector



**STAND
4G150**

Conveyortek design and manufacture world class conveyor systems and metal separation equipment for the recycling sector. From overband conveyor magnets, eddy current separators and permanent suspended magnets, our innovative solutions help to reclaim valuable materials amongst many recycling forms, wood waste, municipal waste, WEEE etc. With a new dynamic test facility in place, we can simulate your application and produce the separation results for both ferrous and non-ferrous recovery rates achievable with our equipment. With streamlined manufacturing processes in place, we are now developing our global distribution networks for our manufactured products and conveyor components such as impact bars, rollers, motors and gearboxes, motorized drums as well as our own range of conveyor belting. For information on our full range of products and services, visit our stand or website

Products being exhibited

- CORE1000D+ Hyd • Overband Conveyor Magnet • CORE750ECS – M • Eddy Current Separator
- Swan Neck • Automated Conveyor



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www.hub-4.com/directory/11979

Impact's trommel fines clean-up solution



**STAND
5P50
-Q51**



The recent amendment to the MRF Code of Practice has undoubtedly ruffled a few feathers throughout the waste and recycling industry. The new mandatory sampling legislation has been passed by the Government in order to improve the quality of recyclable material.

Furthermore, the government has also announced that it will introduce a loss of ignition (LOI) test by April 2015 meaning fines containing more than 10% fuel or combustible materials will be subjected to the standard rate landfill tax of £80 per tonne.

Waste management companies will be hardest hit by the news with landfill tax charges being increased dramatically from £2.50 per tonne to £80 per tonne. This could mean an operator's yearly landfill tax bill leaping from £25,000 to £800,000 for 40 tonnes of trommel fines a day.

The solution is clear. Trommel fines must be further separated and cleaned to further remove the calorific material that can be recycled, which will therefore result in the lower tax rate and hugely reduce landfill tax bills for the operator.

Impact's Zigzag Separation Systems have been successfully providing an efficient density separation solution for waste management companies all over the world for the last five years. With the ability to handle a wide range of materials and with specific adjustments to ensure maximum efficiency, the Zigzag is the obvious choice to minimise tax exposure.

Impact has now further advanced this technology by developing a packaged 'plug & play' Zigzag system with a reduced footprint, improved durability, simple installation and minimal wiring. Within just a few weeks, the launch has sparked an unprecedented level of enquiries, as customers recognise the huge potential in cost savings to be made.

To find out how Impact can provide a solution for you, call 0116 2448855 or email sales@impactair.co.uk. Impact finance and leasing options available upon request.



www.hub-4.com/directory/6743



Flinn Group Ltd Invest In A New Portafill 5000 Screener

Riverside Machinery Ltd, sole UK distributor for Portafill, are pleased to announce that Flinn Group Ltd of Lancashire have taken delivery of a new Portafill 5000 tracked screening plant.

After a successful demonstration of the machine screening soil from recycled aggregates, the decision was made to purchase the unit.

The Portafill 5000 is fitted with a class leading high energy screen box along with heavy duty hopper feeder, and 3 stockpiling conveyors. Power is provided by a Deutz 4 cylinder engine. The machine weighs 14,000 kgs so can be easily transported. The screen box is fitted with fingers and mesh top deck and mesh bottom deck.

Ciaran Gillen, Sales Manager for Riverside Machinery comments "we are very pleased with how the machine has performed for Flinn Group and we look forward to a great relationship with them".

Flinn Group Ltd are a multi disciplined company specialising in plant hire and civil engineering contracting in the North West of England.

Riverside Machinery Ltd will be exhibiting on Stand 5R125 at the RWM conference in Birmingham from 16-18th September 2014.



www.hub-4.com/directory/12459

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**RIVERSIDE
MACHINERY**



**CRS NI to make a return
visit to RWM 2014**



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Website: www.crsni.com

CRS returning to RWM

CRS NI Ltd are delighted to announce that we will be returning to RWM after the resounding success from the show last year. We will be meeting up with our existing customers and introducing our innovative products to potential new clients in the recycling industry.

This time, we will be bringing along our flagship model screen, which is the KF-6018 flip flow screen. This screen forms part of our trommel fines processing plant, which processes trommel fines which would have otherwise went straight to landfill at a significant cost to the processor.

The plant can further screen this problem material due to the patented flip flow screen, removing commodities such as metals and RDF products, reducing landfill costs and reclaiming lost monies on metals.

Two of our customers from last year's show have been singing our praises as they were thrilled with their CRS NI Fines Processing Plant. Both Glynn Skip Hire and Ace Waste Haulage have made huge savings with their CRS Plant. For example on the C&D plant which was producing up to 30 tonnes per hour of -40mm fines, we installed the Fines Processing Plant with the KF60-18 screen in conjunction with our Air Separation Unit and Over Band Magnet, which could handle the 30 tph throughput. After a few months in operation the customer was delighted with the massive savings generated by our plant. They were processing a -40mm C+D material at 30tph, and producing; a -10mm fines fraction which went to a low value top cover; a lights paper fraction which went to RDF; a clean stone fraction which could be blended back into their quarry stone; and a recovered steel fraction, which alone, was covering the repayments on the entire capital cost of their plants!

In addition to our industry leading flip flow machine, we also Design and Manufacture a full range of Recycling Equipment, ranging from Air Separation Units, Bunker Feeders, Picking Stations (Mobile and Static), Trommel Screens, Conveyors, Over Band Magnets, Eddy Current Systems and other bespoke equipment.

Come visit our stand 4E130-F131 at the RWM 2014 and speak to our experienced sales team.



www.hub-4.com/directory/12773

Another new Powerscreen® Crusher gets a 5 star rating

Powerscreen, one of the world's leading providers of mobile crushing and screening equipment, unveils their new Powerscreen® 1150 Maxtrak™ cone crusher.

Powerscreen Global Product Director Damian Power said, "We are excited to add the 1150 Maxtrak model to our cone crushing range. Packed full of new features, the 1150 Maxtrak crusher will continue to push the boundaries in the crushing and screening industry. Due to the feedback we have received during testing, we have every confidence that this machine will be a success."

Crush Ltd has been putting the 1150 Maxtrak cone crusher through its paces with extensive testing in preparation for its launch later this year. While on site at their quarry in Wales, Crush Ltd has been primarily using the 1150 Maxtrak unit for the crushing of gritstone to produce 6mm (1/4"), 10mm (3/8") and 14mm (9/16") chips on final products. Ben Sherratt from Crush Ltd commented, "Typically, we had been using a crushing and screening train consisting of a jaw, two 1000 Maxtrak cone crushers and a Chieftain 2100X screen. When the 1150 Maxtrak cone crusher was substituted for the first 1000 Maxtrak unit, the plant's output surged by an additional 30%."

In a second application, Crush Ltd has been using the 1150 Maxtrak crusher to produce a 6N hardcore crusher run product. Ben Sherratt said, "With the 1000 Maxtrak unit in this application, we had been producing around 1200-1300 tonnes per day. With the 1150 model, we are now at 2100 tonnes per day."

The range of Powerscreen tracked mobile cone crushers has broadened with the launch of the mid-sized 1150 Maxtrak unit. Targeted at quarry operators and contractors alike, the 1150 Maxtrak model builds upon the success of the 1000 Maxtrak and 1300 Maxtrak models offering unrivalled performance, production and versatility. The crushing action of the 1150 Maxtrak model also delivers the same superb product shaping for which the other Powerscreen cones have become world-renowned. The machine will be offered in two key configurations: a direct feed model and a pre-screen version which enables customers to



handle dirty feed material and achieve higher production rates. With a choice of strokes and four liner options, which are all compatible with a single upper frame, the 1150 Maxtrak cone crusher can be easily configured for all applications. Feed sizes of up to 205mm (8.1") are possible with the 225kW cone chamber, which is driven directly by a fuel efficient 331kW Scania DC 13 engine that complies to the latest Stage IV emission regulations. One of the most impressive features of the pre-screen model is the patented hydraulic folding system, which converts the machine into a direct feed layout in minutes, delivering unparalleled flexibility to the end-user.

Along with the Pre-Screen, a new bypass chute design incorporates a 'flop gate' to allow the operator to switch between using the optional side conveyor or sending the material to the main belt.

The robust belt feeder is designed for durability and optimised material flow. Thanks to a fully-lined tapered hopper with a standard capacity of 6m³, and a low feed-in height and optional extensions, the machine can be easily fed by any primary crusher or directly with a loading shovel.

The cone feed-in box incorporates an ultrasonic level sensor and an optional monitoring camera to help ensure the chamber is being continuously choked for optimal throughput and minimal wear. Liner wear rates can be further reduced with the optional anti-spin system available for the cone head.

The 1000mm (39") wide product conveyor includes a hydraulic raise/lower function to provide easy maintenance and access to the cone underside. It is also designed with self-supporting legs so that it can be lowered to ground level and easily removed for service.

The 1150 Maxtrak cone crusher is designed with transport in mind, boasting a highly compact transport envelope which translates to savings on shipping costs and times. It weighs approximately 43,770kg (48.25 US Tons) without options and features two speed tracking for excellent mobility. An intuitive control panel allows machine settings to be changed easily and provides excellent diagnostics for fault finding if required.



www.hub-4.com/directory/679

Master Magnets recently visited one of its customers to advise them on their latest magnet installation project

White Moss Horticulture is one of the UKs leading manufacturers of quality compost and growing media. Their products, which are made completely from recycled green materials, are supplied to some of the largest high street and supermarket chains.

The recycled wood that is used can often contain nails, screws and other ferrous contaminants that need to be removed.

Firstly, the wood is shredded and then screened using a Trommel Screen, in order to separate the fines material from the oversize, which can then be reprocessed. As the fines material is conveyed away from the Trommel, an Overband Magnet is used to remove the ferrous particles into a skip.

At the time of the visit, White Moss had four existing Mastermag Overbands on their site and were looking to install their fifth. White Moss Horticultures Site Manager Andy writes: Being able to remove all of the ferrous contamination from our compost is vital to our business. We supply compost to the retail sector and we must ensure that our products are free from contamination and safe for customer use. We had no hesitation in choosing Master Magnets for our latest installation as we have bought various sizes of magnets from them in the past for use on our production lines and Trommel screens and have never had any issues. Their guidance, service and expertise in this area are second to none and we have no hesitation in recommending them to others in our industry.

Master Magnets Ltd

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5P160
-Q161**



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neuenhauser
**RIVERSIDE
 MACHINERY**

South Glos. Skip Firm Invest In New Neuenhauser Star Screen

STAND
5R125

A south Gloucestershire skip firm have recently taken delivery of a new Neuenhauser star screen for processing their shredded skip waste. The machine works in conjunction with a slow speed shredder which feeds directly onto the star screen. The star screen removes the -30mm fines fraction and produces a very light +30mm waste. Due to the aggressive screening nature of the star screen a very small footprint is required and the separation is much better than a conventional trommel.

The star screen is fitted with a patented star which has blunt fingers and therefore prevents wrapping around the stars which is a common problem with other manufacturers. According to the owner, "by purchasing this star screen we have reduced the amount of material we send to landfill by 40%".

For more information on how a Neuenhauser star screen could benefit your business please email sales@riverside-machinery.com or call +44 (0) 800 689 9024.



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RWM
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feeders, vibrating grizzly feeders and dewatering screens alongside the promotion of our customer support and parts back-up service.

Operating an efficient and competitive UK based manufacturing capability Hewitt Robins produces standard and custom-designed equipment, which is complemented by a full range of fabrication and mechanical engineering services.

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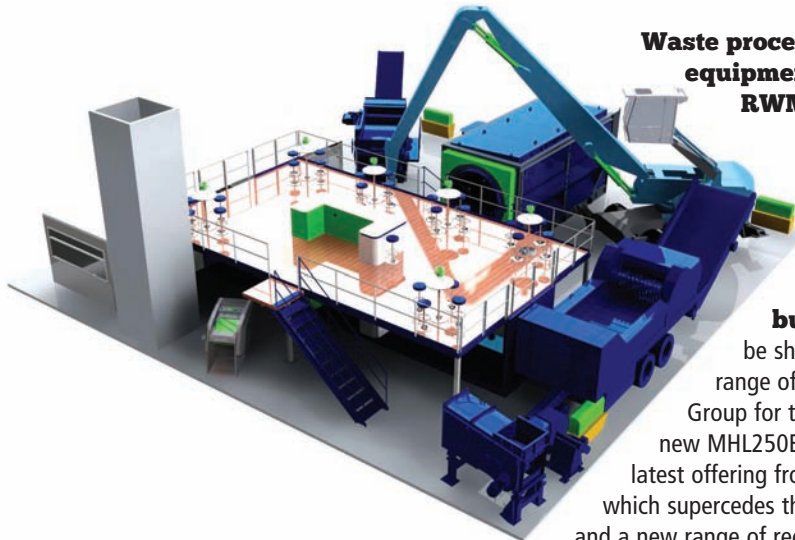
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Hewitt Robins International Ltd have developed a range of products designed to maximise profits in the recycling, quarrying, mining, iron, steel and foundry industries . All of which share the build, quality and reliability for which Hewitt Robins is renowned for all over the world over.

At the RWM exhibition we will be showcasing our extensive product range of vibrating equipment including Glass Screens, Recycling finger screens, Our Super Jaw crusher as well as all types of vibrating screens, vibrating



Blue Group at RWM 2014



Waste processing, recycling and materials handling equipment distributor, Blue Group, is exhibiting at the RWM Show again, this time on one of the largest indoor stands at the show (Number 5W160-Y161). Recent significant developments in the Group's growth and evolution will be highlighted this year with the introduction of BlueMAC tailor-made MRF plants and excavator-mounted crusher buckets from Hartl.

Numerous other innovations will also be showcased on the two-storey stand, representing a whole range of plant, equipment and services now available from Blue Group for the discerning recycling professional. From Blue Fuchs, the new MHL250E long-reach materials handler will make its debut as will the latest offering from Doppstadt, the brand new AK 510k mobile shredder which supercedes the best-selling AK 430. A GK De-Stoner will be demonstrated and a new range of recycling plant fire suppression systems from One Seven will also be introduced. Particular care has been taken to ensure that equipment on show

at this year's exhibition truly reflects the recycling and re-use principles of the industry. The structure of the stand and meeting areas will largely be constructed from recycling plant elements, including a static BlueMAC trommel, flooring and railing normally used in the construction and installation of BlueMAC MRFs, thereby emphasising the build quality of the product while ensuring that most of the stand itself will revert to its normal usage after the show is over.

BlueMAC Tailor-Made MRF Systems: The increasing move towards bespoke MRF systems allows the recycling professional to handle even more varied in-coming waste streams and produce highly specified end-product recyclables. The ability to fit new multi-tasking recycling plants into existing yards, often with site and dimensional restrictions, also contributes to the popularity of the tailor-made solution. Here BlueMAC ticks all the boxes and, through long-standing relationships with such specialist market-leaders such as Doppstadt and General Kinematics, can also incorporate the best shredding and air-classifying equipment into their MRF designs, including volume reduction and sized RDF/SRF production.

The BlueMAC components list is impressive, of the highest quality and includes feeders, conveyors, trommels, picking stations, flip flow screens, ballistic separators and ferrous/non-ferrous removal systems - all of which feature robust design and manufacture to ensure a long and productive working life. These modular components, combined with the compatible shredders and air classifiers, form the basis for virtually any reclamation task, providing BlueMAC with the ability to turnkey recycling plant and equipment solutions economically, effectively and efficiently.

TEREX Fuchs MHL250E Long-Reach Materials Handler: From Blue Fuchs comes the brand new MHL250E, a 14 tonnes class wheeled machine with compact dimensions that is designed and built specifically for the recycling market. With a 9m reach, four point hydraulic outriggers for complete stability and a fuel-miserly, low emissions engine that generates 85kW, the MHL250E has power to spare for most recycling and reclamation applications. Additionally, the luxurious yet practical operator's cab features an optional hydraulic elevation giving a 5.2m raised line of sight for optimum load and site visibility during the working cycles.



Doppstadt AK 510k Mobile Shredder: The Doppstadt AK 510k high speed shredder supercedes the ever popular AK 430. Featuring new advancements which include a revolutionary replacement basket system, an uprated engine to 375kW (510HP) and a new flail hammer system, the new AK 510k provides improved production and even more cost effective shredding. The AK 510k is designed and built specifically for wood and green waste processing, with large volume capacities for even more intensive shredding of tree-trunks, roots, pallets and building timber waste, green and organic waste. A high-speed shredder, the crawler-mounted AK 510k also features a higher flywheel mass and the new flail system is said to improve capacity by up to 20% over its predecessor. Additionally, the whole flail unit swings back later in harder material, leading to a more aggressive infeed and less overlengths. Flail tip exchange is some 30% quicker too, as the new system obviates the need for wedges - and there is no bending of the flail tips either. Smoother diesel engine control reduces fuel consumption and the new model also features a design to reduce impacts from the shredding compartment which leads to less wear and tear in the complete drive.

Hartl Crusher Buckets: Two examples from the 4-model Hartl range will be displayed - the HBC 750 and HBC 950, with 0.65m³ and 0.87m³ load capacity respectively and suited to carrier excavators with operating weights of 16 to 22 tonnes.

Hartl crusher buckets provide flexible, mobile and economical crushing and screening solutions for recycling and demolition applications as well as natural stone.

Particular to the Hartl design is the toggle plate that is specially designed to be positioned upwards, not downwards as is the case with conventional crushers. Also, the Hartl systems generates an aggressive figure-of-eight motion that produces high average performance rates, minimal wear and a high quality cubical end product which minimises oversize material.

One Seven Recycling Plant Fire Suppression Systems: Blue Group introduces fire suppression technology for the recycling and waste treatment market from One Seven of Germany - a specialist company which focusses on mobile and fixed fire suppression systems with compressed air foam. This is a technology that professional firefighters have used for decades and which is tried and trusted in numerous and varied applications. The use of One Seven compressed air foam systems (CAFS) provides a quick and safe extinguishment without water damage to the material and machines involved. Blue Group now offers the full range of One Seven fire suppressant products for the recycling and waste industries.

Blue Group is a total solutions provider, offering the waste management industry a wide range of waste processing systems, materials handlers, shredding, composting, screening, crushing and recycling equipment for the efficient and cost-effective processing of all waste streams. The Group has also developed and invested in after sales product support, with Blue Spares providing an impressive off-the-shelf stock-holding of genuine OEM spare parts for the Group's various distributorships.



www.hub-4.com/directory/2260



Gritbuster HDS unit unveiled at RWM Show will save waste management industry thousands



This year's changes to the landfill tax status of trommel 'fines' mean huge increases in the costs of waste disposal, and waste management operators, small and large are already feeling the pinch.

However, trommel fines typically comprise of 80% material that, if separated, would qualify for the lower UK landfill tax, saving an operator generating 10,000t/year over £640,000.

In response, Silbuster, leading UK waste management experts, have designed the Gritbuster HDS (Hydraulic Density Separator) unit. The Gritbuster HDS, which will be unveiled at RWM 2014, provides customers with a means of minimising their landfill by separating light, low density particles from dense particles (e.g. organic material from sand and gravel).

Waste recycling company, Gwrtaith Gwynedd, which piloted the Gritbuster HDS, sees it as a major breakthrough. Every year the company handles over 14,000 tonnes of gully waste and road sweepings on behalf of four major local authorities in North Wales. Harri Parry, the company's owner says:

"This HDS is just what our industry needs. With landfill tax for trommel fines now at £120 per tonne, the more we can separate out from our waste, the more profitable we are. So it is vital that we extract out everything that can be taxed at the lower rate."

The Gritbuster HDS has further applications in: aggregate recovery and organics removal; glass washing; and density based material separation. Depending on the nature of feedstock the Gritbuster HDS can process up to 15 to 20 tonnes per hour.

The Gritbuster HDS unit works by separating the lightweight floating materials by the use of an axial flow pump to induce an up flow current within the separation chamber. This upflowing current carries the lighter "float" material up to the water's surface and onto a mesh conveyer which then carries the lighter materials out of the separator. The water drains through the belt and is recirculated back to the separation chamber via the axial flow pump. Dense particles (that settle faster than the up flow current) drop to the bottom of the chamber where an Archimedes Screw moves the material up an inclined trough.

The Gritbuster HDS is readily transportable, fast and easy to deploy and has a "Plug & Play" design. It can be used either for standalone material processing (with its own recirculating water treatment plant), or, as at Gwrtaith Gwynedd, it can be fully integrated with Silbuster's range of Gritbuster washing systems to provide a complete washing and separation solution.

Harri Parry adds: "By combining it with the Gritbuster washing system we think Silbuster have come up with a total solution for our kind of business."

Such feedback is welcomed by Dr Richard Coulton CEO of Silbuster who said: "We pride ourselves on developing technical solutions to waste management issues that are cost effective and simple to install and use. The Gritbuster HDS will not only enhance recycling potential, waste minimisation & landfill diversion it will also significantly reduce waste disposal & associated costs."

To find out more about the Gritbuster HDS visit www.silbuster.com or call George Anderson on 01600 772256.



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RWM 2014 provides first opportunity to see new **UNTHA XR RDF shredder in UK**



Visitors to the RWM with CIWM 2014 exhibition will have the first opportunity to see UNTHA's revolutionary new XR waste shredder for RDF and alternative fuel production, when it makes its UK debut at the show.

UNTHA UK announced the launch of this latest feat of engineering back in May, but industry professionals will have to wait until September until they can see the technology in this country, at the NEC Birmingham.

The first shredder to be designed and manufactured in UNTHA's new innovation centre in Kuchl, Austria, the XR breaks the conventional shredding mould. It has been purposefully designed to increase operators' profitability, and, thanks to UNTHA Eco Drive technology, promises to reduce energy consumption by up to 50%. This could save in excess of £500,000 in electricity costs alone, in less than five years.

The shredding experts also claim that the XR is the most flexible shredder on the market. Achieving throughputs of up to 70 tonnes per hour, it has two distinct cutting concepts that can be configured and reconfigured as clients' requirements evolve. It is able to achieve a precision shred, with homogenous particles as small as 50mm, in a single pass.

Speaking of his excitement surrounding this new technology, UNTHA UK's managing director Chris Oldfield said: "With this RDF shredder, which is also suitable for untreated bulky waste shredding, we can offer throughput, flexibility, precision, uptime, energy-efficiency, cost savings and noise minimisation, that customers don't even think possible. I'm so excited for the UK industry to see it - I don't think I've ever looked forward to RWM as much.

"We all know alternative fuel production is becoming increasingly important. However, for RDF and SRF manufacturers to truly commit to and improve the country's sustainability agenda, they should be considering the energy efficiency of their WtE technologies. The XR enables them to reduce their electricity consumption whilst protecting the safety and efficiency of their staff, and ultimately, improving their profitability."

Having explored the new technology for themselves, visitors will be able to download the new XR shredding app. This will enable them to view the machine in 3D, when they leave the show.

The new XR will not be the only thing to see on stand R20-S21 (hall 5). A versatile four shaft shredding system - an UNTHA RS40 with conveyor - will also be on display, enabling delegates to learn more about the most renowned shredder in UNTHA's extensive range. This configurable machine is ideal for the cost-effective processing of numerous recyclates including WEEE, confidential waste, packaging materials, organics, cables, textiles and more.

And visitors will have the chance to meet not only several members of the UNTHA UK team, but also a number of senior personnel from UNTHA Shredding Technology, including CEO Alois Kitzberger who is making a special trip from Austria to attend the show.

Chris concludes: "For anyone considering attending RWM in September I would encourage you to register for free entry and come along - even if only for a few hours to get a first-look at the new XR!"



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Key Skills

- Previous experience of operating in a field sales capacity within the construction/plant hire/quarrying sector
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