AUGUST 2011

HUB™

WASTE & RECYCLING FOCUS

BELL EQUIPMENT UK

BELL

Jacob pipes boost hi-speed composting

JACOB (UK) has supplied a modular pipework system as part of the modifications to the advanced recycling and composting process for the Premier Advanced Recycling Centre (PARC) at Thornley in County Durham. The process is capable of diverting up to 85% of household waste from landfill.

This is 'composting' on an industrial scale. The recycling centre at Thornley is designed to process 60,000 tonnes of un-segregated household and municipal waste per year.

With responsibility for managing the project, Premier's Peter Broadhurst explained: *"This is a Mechanical Biological Treatment (MBT) plant using aerobic digestion to transform bin waste to compost in just 6 days. The plant was modified using modular pipework supplied by Jacob UK to ensure the statutory Animal Health requirements were routinely met."*

"The advanced composting plant is designed to help local authorities meet their obligation to the Landfill Allowance Trading Scheme (LATS) while complying with the latest European Animal By-Product Regulations covering the safe disposal of waste food of animal origin, including raw meat and fish."

"Un-segregated waste is conveyed to the top of each 20m high composting tower, where it is agitated and transferred down through three stages. The waste is heated to 70 degrees centigrade and the resultant hot gas is removed at the top of the compost layer via the Jacob pipework system and then re-injected at the lower level via multiple inlet pipes."

Jacob UK engineers worked with the Premier Waste Management team to produce a ducting solution based on Jacob standard 1 to 3mm thick modular pipework system, supplied as galvanized mild steel sections measuring up to 400mm diameter and connected using silicon seals in a pressure tight connection.

Peter Broadhurst said: *"We selected Jacob UK because they demonstrated to us that they designed and manufactured their pipework to the engineering standards we required and we also liked the modular design with the pressure tight connections capable of operating at pressures down to 0.5 bar on the inlet side."*

Jacob UK supplied an extensive range of modular pipework and accessories to meet the requirements of the system. All sections of pipe were manufactured from mild steel to a high tolerance and hot-dipped galvanised to 70 microns according to DIN EN ISO 1461 with temperature resistance up to 200 degrees centigrade.

Jacob pipe sections have machined lipped ends (6mm) to accommodate a pressure tight U shaped EPDM or PTFE seal and pull-ring or flange connector for easier assembly. The smooth bore sections and matching radius bends, forks, diverters and conical connectors, are all manufactured to the same high standards.

Once installed at the site, the Jacob pipework ranging in diameter from 250 up to 400 mm has been fully clad to insulate the system, reduce temperature loss and protect staff working in the area.

John West, Managing Director for Jacob UK said: *"We are particularly pleased to have been involved with this project. The idea of PARC is environmentally appealing and the technology using the Jacob modular pipework to extract and re-inject waste gases to aid composting, is leading the future design of efficient waste management systems."*

Two of the three existing 20m high segregation and digesting towers at the Thornley Waste Treatment Station have now been modified. The composted waste is further segregated to remove metals, glass and plastics to yield an organically rich soil product suitable for use as a growing medium to remediate brownfield sites.

Production Manager Lee McGoldrick added: *"This is an attractive energy efficient and low carbon alternative to waste incineration, reducing greenhouse gas emissions by over 40%. The gas produced naturally during composting is recycled via the Jacob pipe system and only a small percentage is finally extracted from the tower, treated in a multi-stage air scrubber and activated carbon filter system, before being vented to the atmosphere."*

"We are delighted with the modifications to the plant and have not experienced any adverse environmental effects since the new system was installed; added Mr McGoldrick.

For further information view: **www.jacobuk.com or call: 01694 722841**

www.hub-4.com/directory/456

Blue Group at RWM 2011

Waste processing, recycling and materials handling equipment distributors, Blue Group, is exhibiting at the RWM Show again on outside stand number OA 160

Blue is a total solutions provider, offering the waste management industry a wide range of shredding, composting, screening, crushing, recycling and conveying 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 an impressive off-the-shelf stock-holding, increased under-cover storage capacity and an automated system that is widely considered to be the ultimate in state-of-the-art computer controlled parts storage, selection and picking.

The increasing demand for bespoke MRF systems for processing mixed waste is providing Blue Group with a growing market, where they are arguably the UK's leading supplier in this growing sector with over 120 installations successfully completed. Such is the size and compatibility of the machinery ranges for which Blue is an appointed distributor, that productive and efficient plants can be created to produce an optimum recycling solution to suit not only the waste streams to be treated but also the constrictions of designated site areas or containment buildings. Blue's own teams of designers and engineers can provide tailor-made systems for all types of waste treatment, recycling and reclamation.

Blue's portfolio of distributorships includes Doppstadt shredders and chippers, Kiverco bespoke recycling plants, TEREX Powerscreen crushing, screening, washing and recycling equipment, Telestack static, mobile and telescopic conveyors, General Kinematics finger screens and de-stoners, Nihot controlled air separators, CRS flip flow screens and Backhus compost and soil turning machinery. In the domestic and commercial solid waste fields, Blue Group is also a distributor for the Cesaro Tiger pre-AD separator and the Marathon ranges of two-ram and channel balers.

UK Show Debuts for Doppstadt

Two new shredders from the Doppstadt range distributed by Blue Group are on show for the first time in the UK.

The DW-2060 Bio Power follows on from the successful introduction of the larger DW-3060 and is capable of handling timber and woodwaste, mixed construction waste and industrial refuse. Numerous features include optimum tooth arrangement on the roller, reversible fan wheel, modified hopper shape for easy loading, electrically controlled roller reversing and a large return conveyor. Additionally, an overband magnet at the front end safely removes tramp metals from the incoming raw waste. The DW-2060 Bio Power produces recyclables to exacting specifications in a single pass and enables significant volume reductions - all with reliability, productivity and fuel economy

The DF-307 Rotaro is a new single-shaft secondary fine shredder specifically designed and built for RDF production. High rotor mass increases the energy efficiency of the drive, with the rotor driven by two three-phase AC motors. Knives are easily exchanged although their robust construction produces extended wear-life. End-product sizing can be selected using interchangeable sieves with different mesh sizes.

The New Cesaro Tiger HS 640

Designed for the effective separation and processing of organic waste from selective collection or expired packaged foodstuff, the Cesaro Tiger HS 640 can form an integral part of an anaerobic digestion, composting or organic waste treatment plant. Plastic and processed packaging is separated, with wet or dry systems producing the organic fraction for secondary processing.

The CRS KF 44-18 Kinetic Flow Screen

Based on the well-proven kinetic flow principle, the patented design produces a unique and aggressive *"pitch, throw and action"* which results in clean fines material, no matter how wet or sticky. Screening area is 1.80m X 4.4m, providing a high throughput and benefiting from high quality components for durability and efficiency. The self-cleaning polyurethane screen elements are easily replaced and the modular design of the whole unit allows quick installation and set-up. ▶

Maximising recovery of valuable useable material, the CRS KF 44-18 Kinetic Flow Screen has a range of applications, including fine mixed C&D Waste (0-80mm), mixed organic waste, damp and sticky materials such as powders, soils and sand, shredded mulch or organic materials.

The New Marathon Gemini Xtreme Baler

Blue Group is the appointed distributor for the successful range of horizontal 2-ram and channel balers in England, Scotland and Wales. Featured on the stand it this year's RWM Show is the new Gemini Xtreme. This is a mid-capacity, closed-end, multi-material baler with a vertical tie system, which is ideal for baling light alloys, paper, plastics, PET and similar waste stream materials.

The New Kiverco M 512-W Mobile Recycling System

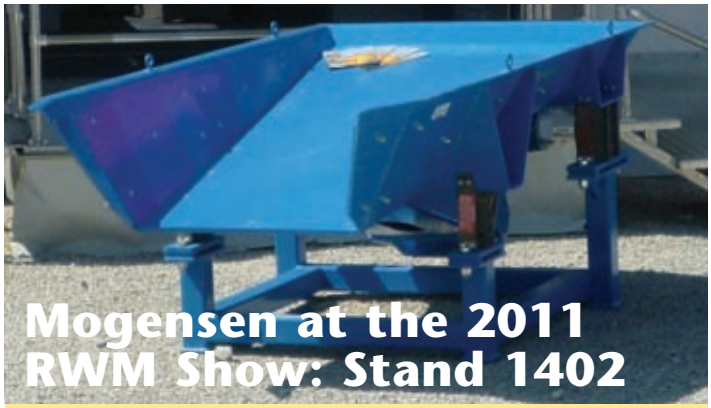
Making its UK debut on the Blue Group stand at this year's RWM Show is the Kiverco M 512-W Mobile Recycling System, which is comprised of a feeder, trommel screener and picking station as one mobile and compact unit. Pickers can be positioned on either or both sides of the variable speed conveyor and, for enhanced working conditions for operatives, the fully enclosed cabin work station has heating and lighting. Discharge chutes can be positioned as required and in any number for convenient “binning” of the sorted waste

After Sales Product Support

Blue Spares - the essential provider of genuine OEM spare parts for the main distributorships of Blue Group - is well represented on the stand at RWM. With established spares holdings exceeding £1.5 Million and approximately 13,000 line items available off the shelf at any one time, Blue Spares is dedicated to ensure that their product support is second-to-none. The company has developed a “24/7” network spares service for UK customers and provides a genuine 24 hours parts turnround.

Wear And Spare Parts is a new and autonomous company specifically created for the crushing plant aftermarket as a competitive and efficient worldwide provider of premium quality crusher spares and wearparts for equipment other than those for which Blue Group is an appointed distributor. Wear And Spare Parts provides a growing customer base with an even greater spare parts choice for the complete spectrum of crushing plant and equipment available on the market today.

www.hub-4.com/directory/2260



Mogensen at the 2011 RWM Show: Stand 1402

Mogensen, a leading manufacturer of vibratory equipment for the solids and bulk handling industries, has more than 40 years of experience in the field both in this country and abroad. The recycling and waste management sector has featured prominently in the company's activities for several years. The Mogensen stand this year will display a heavy-duty vibratory feeder, Type TR1 1360 2570-L356, representative of the machines widely supplied to the industry along with a broad range of other items of both standard and custom-designed vibratory equipment. The feeder is built of 10mm plate lined with 10mm Hardox 400 wear-resistant material, and is fitted with two counter-rotating Invicta rotary electric vibrators. The machine will also accept rotary hydraulic vibrators to enable it to be used on mobile plant in locations where no power supply is available.

Mogensen machines are in use in the recycling industry handling various materials including used tyres and scrap rubber; miscellaneous scrap glass; wood waste; bone meal and other biomass materials; domestic, commercial and industrial waste; compost; aerosol cans; scrap metal; recycled concrete, aggregates and plaster board; and mixed textile and plastic waste.

www.hub-4.com/directory/583

S+S Inspection to show new colour/polymer sorter at RWM 2011

On Stand 1476 at the RWM Show, S+S Inspection will feature a working Flake Purifier, its latest colour/polymer sorter, similar to the machines used at the new Biffa Polymers' mixed plastics sorting and processing plant in Redcar on Teesside. At the customer's site, nine Flake Purifiers are installed in a fully integrated plastics recycling tower designed to sort, wash and process 20,000 tonnes of mixed plastics into high grade, reusable material per annum.

The machine at RWM will be demonstrated sorting a wide variety of mixed plastics using three different sensor technologies to highlight the versatility of the Flake Purifier to sort on the basis of polymer, colour and metal.

This is the first time the Flake Purifier has been shown at a UK exhibition and is expected to generate significant interest, especially with the completion of the very successful installation at Biffa Polymers.

www.hub-4.com/directory/6628

Eriez Introduce the New Ballistic Metal Sorter to Scrap Processors

Eriez Magnetics Europe Ltd introduces their new Shred1™ Separator which uses ballistics to efficiently separate iron-rich ferrous from much of the mixed metals and waste material in the post Magnetic Drum flow in scrap processing lines.

This powerful and innovative separator delivers three distinct fractions with the first being a high value, low-copper content ferrous product. This valuable shred represents more than 70% of the flow and contains less than 0.2% of copper.

The second fraction represents less than 20% of the flow and contains mostly mixed metals, copper and aluminium with steel housings or cores. Hand sorting of this fraction can be accomplished with relatively few pickers.

The final low volume fraction representing less than 7% of the flow consists of heavy steel objects and light material such as fluff, rubber and some wire. This fraction can also be easily picked or sorted.

Clearly, worldwide demand for steel is on the rise and scrap processors who are able to supply steel mills with a very high grade ferrous product are positioned well for the future. However, with decline in availability of pure, high quality industrial scrap, processors are shredding more consumer waste than ever before. Post consumer waste items like vehicles and appliances contain lots of motors, condensers and wire harnesses as well as cast aluminium pieces, all of which have steel housing, shafts of cores. This presents a big problem for most yards using current processing technology. The Shred1 changes this dynamic and allows processors to differentiate themselves with a premium ferrous shred and demand a higher value per unit weight.

Carlton Hicks, Sales Manager - Recycling commented, *"The Shred1 is a welcome addition to the Eriez Recycling product portfolio and complements a lot of our already successful recycling equipment. Eriez research and development team are constantly working to improve the standards of metal separation possible with our [Eriez] equipment and I look forward to further product launches later in the year."*

For more information on the Shred1 please visit http://en-gb.eriez.com or alternatively email info@eriezeurope.co.uk

www.hub-4.com/directory/280

Bell loaders improving uptime at Slough Heat & Power

In an economic climate where machine reliability is everything, downtime due to unscheduled maintenance is something every plant operator wants to avoid.

This issue is especially acute in the waste and recycling industry, where loading shovels operating in partially enclosed spaces are continually exposed to the harshest of environments.

Slough Heat & Power, a subsidiary of Scottish and Southern Energy plc (SSE), has tackled this problem head-on, and is now reaping the benefits.

A little over a year ago, the Slough plant, replaced its three L120E Volvo wheeled loaders with three L1806E loaders from Bell Equipment. At the time, the Bell loaders were new on the market and, as such, were largely unknown in the UK.

The decision to switch suppliers followed extensive demonstrations on both its woodchip and waste derived fuel processing sites, and included the full involvement of machine operators in the decision-making process.

John Watson, national fuel manager (waste and biomass) for SSE, said: *"We've tried machines from a number of other manufacturers. The Bell machines have proved to be much better at working in our environment than any other machine on the market."*

Slough Heat & Power operates one loader in each of its two fuel stores 24 hours a day. The three machines are rotated equally across shifts on a weekly basis, with the third loader acting as a spare in the event of maintenance to ensure the operation never grinds to a halt.

This back up is essential in the type of operation run by Slough Heat & Power. The waste derived fuel plant, for example, which involves the handling of large volumes of shredded paper, card and plastics in a large store, is no friend to machinery.

The handling associated with this type of waste fuel, combined with the efficient mist air dust suppression systems installed, create a moist dust which easily clogs up cooling systems. This is also experienced in the woodchip processing plant on the opposite side of the site.

"There are few harsher conditions that a wheeled loader can operate in," said Watson. "This is why we turned to Bell. Bell's wheeled loaders are the best thing we've come across so far in terms of their cooling systems and all-round reliability."

The main reason why Bell wheeled loaders have proven so ideal in such waste-related environments is due to the unique QuadCool cooling system, which comes as standard across the entire seven-strong range of Bell loaders.

The QuadCool system places the wide-core radiator, transmission, axle, hydraulic and air-to-air coolers in a separate compartment to the engine. The individual mounting of wide-core radiators on Bell's loader range eliminates debris collection in between radiators, which is common in other manufacturers' machines.

With Bell's E-Series loaders, steel access panels have fine mesh screens to filter cooling air as it enters the QuadCool system. The holes in the screen are substantially smaller than the wide-core radiators, so any debris drawn in passes straight through the system, thus extending intervals between cleaning - and increasing up-time. The fins per square inch on the Bell wide-core radiators are significantly less than those of other manufacturers, which greatly reduces the chance of debris build up.

The QuadCool system is also set up to provide the best maintenance access in the industry to all radiators, with panels allowing access to both sides of each radiator for easy, quick and thorough cleaning.

Included "as standard" in the QuadCool system is the automatic reversing fan, which automatically reverses the air flow for 30 seconds at intervals determined by the operator, depending on the site conditions. This blows any accumulated debris away from the radiators, maintaining cooling efficiency and increasing productive times by further reducing the need for cleaning.

In addition, QuadCool features a proportional fan speed, which operates independently to the engine. When compared with a more common engine-driven fan, the benefits of the Bell system include reduced noise levels, increased fuel economy due to the reduced drain on the engine, and lower operating costs.

Despite the unique cooling system offered by the Bells, Slough Heat & Power maintains a rigid cleaning and maintenance regime due to the potential on-cost of any unscheduled downtime.

One side of the operation handles approximately 350,000 tonnes of wood waste derived fuels per annum, 60 per cent of which is recycled woodchip, while the remainder comprises virgin wood chips. The fibre fuel plant handles a diet of pre-processed waste derived fuels produced from a mixture of paper, card and plastics which would normally be destined for landfill. The entire site has a capacity of 100Mw.

The electricity produced from the process primarily provides power to the Slough Trading Estate, with the excess supplied to the National Grid. The total energy produced on site is enough to power nearly 40,000 homes for one year. Any extended machine downtime would therefore have potentially enormous knock-on effects.

Watson said: "It's an extremely important operation, affecting many other businesses, so it's essential we work as consistently as possible with the absolute minimum of downtime.

"The operations team works 12-hour shifts and the machines are inspected twice a shift. Like everything, providing you keep on top of the preventative maintenance, blowing out air filters and so on, the machines will generally return consistent availability and performance. The Bell machines have proved to be always easier to manage and more available than other equipment we've operated to date."

In addition to the QuadCool system, Slough Heat & Power was also insistent on a higher-than-average specification on all aspects of the machines, in particular paying attention to operations safety and wellbeing, which is something else Bell delivers, mostly as standard.

Bell's waste-spec loaders come with belly guards, cab screen guards, solid rubber tyres, high-lift arms and high-tip buckets. The arms, which can comfortably load high-sided trucks and hoppers also have quick-hitch attachments to enable the swift changing of buckets for materials of different weight and compaction. The cab has a heated air-suspended seat, adjustable steering column, high visibility, multi-function LCD monitor and sealed switch module (SSM).

Carl Woollaston, sales support manager for Bell Equipment UK, was present during the various demonstrations at Slough Heat & Power. He said: "It was immediately apparent that the customer needed a solution for minimising downtime due to clogged up air filters and engines. This is typical of any indoor waste handling environment, though the shredded plastic on this site particularly accentuated the problem.

"We demonstrated how the QuadCool system could greatly reduce downtime, as the set up is as close to self-cleaning as is currently possible. We had some very positive feedback regarding QuadCool, cab visibility and the ease of access to the radiators. Machine power and hydraulic speed also scored very highly.

"In short, not only are we confident that our wheeled loaders will beat any other manufacturer in a waste environment, but our customers are also telling a similar story."

Watson concluded that ultimately he was very impressed with the Bell wheeled loaders. *"The support and technical back-up from Bell, and all round performance of the machines, is as good as anyone can ask for. If you look at what is available in the market place at the moment, and if I had to replace the machines today, I would more than likely replace them with Bells."*

***Bell Equipment UK will be exhibiting its wheeled loaders at the forthcoming RWM Exhibition at Birmingham NEC from September 13-15. The company can be found in the outdoor exhibition area at stand OA187.**

www.hub-4.com/directory/107

Holcim Chepintsi scrubbed material discharged from Rotomax and dewatered, factory Rotomax shaft from left side showing fan arrangement of paddles

Addition to CDE RotoMax Logwasher range

The RX80 has been added to the range of CDE RotoMax Logwasher for application in the construction materials and mining sectors. The new model has a capacity of 80 tons per hour and can be applied in the processing of a variety of materials such as sand and gravel, crushed rock, construction and demolition waste material as well as a range of mineral ores.

The RX80 has been introduced following the launch of the RX150 model in September last year and is designed for the processing of material containing high levels of plastic clays which need to be broken down and removed from a feed material.

"The RX80 has been installed on a number of projects and is typically employed following initial screening of the feed material - more often than not this is done by our M2500 mobile washing plant" explains Kevin Vallelly, CDE Product Manager for the RotoMax Logwasher. "These initial projects have involved the processing of construction and demolition waste material but we are actively pursuing several projects in the ore processing field following the addition of the new model to the range."

The RX80 has 118 high cast chrome paddles mounted in a spiral arrangement on dual shafts. The specification of the paddles offers superior wear resistance with a processing life in excess of 100,000 hours while the spiral arrangement of the paddles has the advantage of reducing intermittent shock loading and reducing the power requirement for the RotoMax.

"The specification of the paddles is key to the success of the RotoMax with the high cast chrome offering more than five times the wear life of other materials" says Kevin Vallelly. "The effect of this is to offer operators a much lower cost per ton of processed material."

The RotoMax range also includes a hydraulic clutch as standard to allow for start up under full load while the fitting of a temperature sensor affords additional protection to the bearings at the rear of the RotoMax. "All of the models in the RotoMax range are designed to ensure ease of maintenance and ensure the operational time of your plant is maximised" says Kevin Vallelly.

www.hub-4.com/directory/163

Summit Recycling at RWM

Summit Recycling Machinery will be bringing a variety of Size Reduction, Separation and Washing equipment for all types of recycling operations to Stand 1450 at RWM this year.

They will also be premiering a film of their showcase recycling line Boomerang Plastics. This illustrates the journey of waste yogurt pots and other plastics from arrival at the facility right through all the processes to the re-usable end plastic material. Visitors to the Summit Stand will be able to view all the different elements of this recycling line actually working in harmony with one another and it will be possible to make future appointments to view the line.

Some of the equipment shown in the video will be on display on the stand including Shredders and Granulators from the world renowned Zerma. Conveyors and Separation equipment including the unique Spinner which is already remarkably successful in a number of recycling operations throughout the UK.

www.hub-4.com/directory/11774

DUO Manufacturing at RWM

Stand Number: 240 Stand Number: OA208

Following a successful 12 months since the last RWM show DUO Manufacturing will again be attending the event. Since the last show DUO Manufacturing have been involved in several projects relating to the recycling and waste management industry and are looking forward to discussing the solutions they have provided with visitors to their stand.

Dudley Lloyd - Director, commented *"RWM has always proved a successful event for us in the past and I don't see any reason why this year's event should be any different. We've had a busy year since the last show so the opportunity to catch up with so many of our customers in one place, as well as networking with new contacts, is not one to be missed. I'm looking forward to discussing the benefits that our latest installations have delivered and how we can apply our solution to new projects."*

DUO Manufacturing will not only have a presence within the exhibition hall but also in the outdoor area at stand number OA208. This outdoor space will be used to display a Mobile Picking Station which has always been a popular product for DUO; their durable yet mobile design making them ideal for multi-site recycling operations.

www.hub-4.com/directory/680

15 year old SkipVAC still 'works as good as new'

Gotland's industrial vacuum machines have a great reputation for reliability, but one particular SkipVAC takes the biscuit for outstanding performance. It is 15 years old and according to the foundry team leader Rick Brewster, it still 'works as good as new', helping them to recycle large quantities of casting sand every day.

Progress Rail Services: casting parts for the world's railways

Progress Rail Services UK, part of the giant US-based Caterpillar Inc., operates a foundry specialising in casting parts for track and locomotives all around the world, such as the saddles for holding track securely, manifolds for engines, brake discs - the type that weighs 90 kilos each! - and even highly specialist parts for steam engine preservation projects such as grids for the main boilers.

The casting process involves making moulds using tonnes of special calibre casting sand; when the cast has cooled down sufficiently, the sand is knocked away and re-used again. Cleaning up all the sand and dumping it back in the storage bunker is part of the foundry team's every day - and night, as it runs 24/7 - tasks, which means removing sand from deep pits and underground pipes, along with cleaning belts and elevators, and removing all the inevitable spillages that occur in a busy foundry.

To handle the sand removal and recycling, what was then Balfour Beatty Rail purchased a new SkipVAC in 1997, the first machine of its type in the UK. Since then, this particular machine has been used every day to remove 10-15 tonnes of casting sand a week, with each load of the SkipVAC's hopper weighing in at around a tonne each time.

Keeping the SkipVAC in perfect working order

To make sure it keeps working perfectly, the team at Progress Rail always check and service it every two weeks, and as Rick explains: *"It's essential to make sure the filter bags are clean so that the vacuum works at its maximum suction power every time the SkipVAC is used. That's why our SkipVAC works perfectly and sucks nicely every time we switch it on."*

Once a year new hoses and filter bags are bought from Gotland and fitted to the SkipVAC, and as Rick points out *"The only other parts that needed to be replaced have been the on/off switch, the occasional electrical contacts, and when it was worn out by all the sand hitting it for years, a new hopper base."*

That means the 15 year old SkipVAC has more than enough suction power to keep pulling tonnes of sand at a time, often working continuously for two or three hours at a stretch, vacuuming up not just dry but damp and even wet sand. Its fully enclosed system also means that no dust escapes into the working environment.

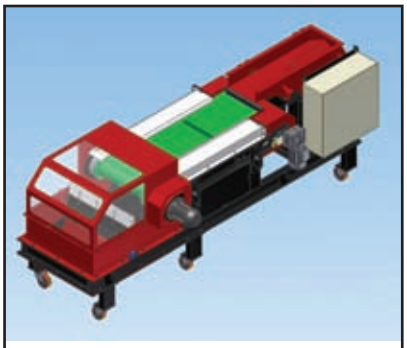
Redefining 'reliability'

The reliability of the SkipVAC has certainly impressed Rick and his team mates like Dave Roadley: *"The SkipVAC does exactly what we want it to, every time. It's never any problem. It starts every time and shifts all the sand from around and underneath the foundry and the plant and equipment, day in and day out."*

Rick really appreciates the SkipVAC's smaller dimensions as well: "The SkipVAC's size is ideal for our foundry, as it's small enough to be lifted and moved with a forklift to wherever we need it; anything larger wouldn't clear some of the access doorways." Emptying the SkipVAC is easy as well, being a simple matter of lifting the top away from the hopper with a forklift and then tipping out all the sand into the foundry's storage bunker.

So if it's this kind of absolute reliability that you want when dealing with major housekeeping or waste removal and recycling tasks, and reliability is what most of Gotland's customers really appreciate when they use one, you'd better get a Gotland!

www.hub-4.com/directory/354



Master Magnets at RWM

Master Magnets Ltd will again be exhibiting at this years RWM show and we are looking forward to meeting lots of new and existing customers at what should be another fantastic exhibition. Master Magnets will be exhibiting on stand 510, located along the front aisle near the main entrance.

On our stand, we will be presenting our brand new Eddy Current Separator, which features an Eccentric rotor design. Master Magnets responded to customer demand and the ever increasing cost of manufacturing by bringing this new design to market. In a select range of applications, the use of an Eccentric Rotor can prove to be more efficient than a Concentric rotor. The new addition to the range will therefore provide Master Magnets with a wider selection of units to choose from and enable them to provide the most cost effective units for a customer's specific application.

The Master Magnets technical sales team will be available to discuss this new design together with the complete range of Master Magnets equipment that includes Overband Magnets, Drum Magnets, Magnetic Head Pulleys, Suspension Magnets and a range of Industrial Metal Detectors.

www.hub-4.com/directory/541

NEW ATLAS 340LCI TRACKED SCRAP HANDLER DEBUTS AT RWM SHOW

TDL to exhibit innovative Atlas 340LCi at RWM show

TDL (Terex Distribution Ltd.) is to host the worldwide launch of the Atlas 340LCi heavyweight materials handler on stand OA152 at the RWM exhibition (NEC 13-15 Sept).

The new 34 tonne class 304LCi combines the well proven upper-structure of Atlas's dedicated 350MH materials handler with the rugged tracked undercarriage from its 340LC excavator. The result is the new 340LCi - a materials handler which offers significant operational and financial benefits. The 340LCi has a very large working envelope which is combined with exceptional stability, low ground bearing pressure and excellent maneuverability. These operational features are achieved in a compact, 3.2m wide x 4.8m, footprint which compares very favorably with around 4.5m x 5.5m needed to deploy the outriggers on an equivalent sized wheeled machine.

"The 340LCi represents a big advance in efficiency, and can handle even the largest waste handling jobs. There are no stabilizers to deploy and the ground pressure exerted is exceptionally low, thereby minimizing any danger of ground collapse" says John Crerar - TDL's Materials Handling Sales Manager.

With under-grapple heights of almost 15m, more than 18m of outreach and a lifting capacity approaching 10 tonnes (depending on configuration), the 340LCi can cope with the largest waste-handling jobs. The new Atlas cab can be hydraulically elevated to lift the operator's eyeline above 4.5m and its large panoramic screen has no central partition to obstruct the operator's view. New and improved air conditioning is a major benefit for those working in dusty environments and the air filter is easily accessible from the cab.

A range of boom and stick configurations allow the machine to be tailored to suit individual applications. And, with its 600mm wide tracks having almost 4m of ground contact, the 340LCi can work safely in ground conditions that would prevent other machines being able to operate.

A six-cylinder 166kW Stage IIIB/Tier 4 Deutz engine provides fuel efficiency power while features such as reversing cooling fans ensure the 340LCi can operate reliably in the waste sector.

TDL will also have other new products on its show including the new 140W lightweight waste handler and the Terex TL260 wheel loader.

TDL (Terex Distribution Ltd.) is the UK distributor for Terex off-highway trucks, Atlas re-handling machines and Bucyrus hydraulic mining excavators (formerly the Terex O&K) as well as marketing a range of grabs and attachments for material handlers and loaders. It provides a single UK hotline number (08444 99 44 99) for aftersales and parts support for the machines it markets and operates through its recent-opened headquarters in Tankersley, South Yorkshire. With a nationwide network of Service Engineers, TDL aims to provide excellent customer service and value for money.

NEW WASTE-SPECIFIC TEREX TL260 WHEEL LOADER LAUNCHED AT RWM

TDL to exhibit Terex's new offering to the waste market.

TDL (Terex Distribution Ltd) will exhibit its latest waste-specific TL260 wheel loader alongside the new Atlas 340LCi and 140W material handlers on stand OA152 at the RWM exhibition (NEC 13-15 Sept).

Built for the demanding requirements of the UK waste and recycling industry, the new 14 tonne class TL260 comes with extended loader arms which push the load-over height to more than 4.5m (dependent on specification). It can also be fitted with buckets between 2.6m^3 and 4m^3 to match the material density and has ±40° of articulation.

Thanks to the curved engine hood design, the TL260's ROPS/FOPS cab offers operators arguably the best rear-view visibility on the market - of particular benefit for safe operation in waste transfer sites. A six-cylinder Cummins engine provides 128kW of power which is channeled through a hydrostatic transmission with two ranges giving a 40km/h travel speed to maximise productivity. The automatic reversing fan fitted as standard keeps the radiator clear of debris and the TL260's rear axle comes with an oscillation damper to smooth the ride on hard ground.

TDL (Terex Distribution Ltd.) is the UK distributor for Terex off-highway trucks, Atlas re-handling machines and Bucyrus hydraulic mining excavators (formerly the Terex O&K) as well as marketing a range of grabs and attachments for material handlers and loaders. It provides a single UK hotline number (08444 99 44 99) for aftersales and parts support for the machines it markets and operates through its recent-opened headquarters in Tankersley, South Yorkshire. With a nationwide network of Service Engineers, TDL aims to provide excellent customer service and value for money

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Innovation at the construction yard with the MB crusher bucket

It has been 10 years since MB, the Vicenza-based company world leader in its sector, made available to the earth movement world a piece of equipment with unquestionable qualities: the crusher bucket, a hydraulic machine that works by taking advantage of the excavator system and can be used in many fields of application.

Today, MB's crusher bucket has crossed all borders, from the Far East (the company recently opened a branch in Japan) to the *"Stars & Stripes"* States (where another branch was opened) all the way to South America and Oceania, and did not stop even when faced with the cold stones of Siberia or the burning hot ones of Nigeria.

So, to all companies operating in the earth movement and construction sector, the MB crusher bucket has become a *"must have"* piece of equipment if they want to improve their work process and increase their profits.

There are many accounts by customers who have found in MB's equipment a reliable partner that lasts a long time, with little maintenance, easy to transport and that does not take up a lot of space at the yard.

Of all the various fields of applications, the qualities of the MB crusher bucket turn out to be especially useful during excavation and filling jobs.

Usually, during excavations and the jobs that follow, the soil must be dug up, the debris material loaded onto trucks and taken to the nearest dump for disposal, with the trucks then returning to the worksite and so on. The excavation site must then be filled in again, thus requiring other trips to the waste dump, but this time to purchase the same material that was dumped just a few days before, which in the meantime has been crushed and prepared in the right size to fill in the trenches. Obviously, the material must be paid for and hauled to the worksite.

Everything becomes simpler and less expensive by using an MB crusher bucket, which reduces all costs and times needed for the disposal and procurement process, up to fully eliminating them.

In fact, the material is already at the worksite, where it can be reused after having gone through demolition processes using pneumatic hammers and pliers. Subsequently, with the MB crusher bucket the material is collected and crushed in the desired diameter and unloaded directly by the bucket onto the truck or in another location, and can thus be used again, for example, to build yards, road embankments, drainage works and to fill in various excavations.

The MB crusher bucket is especially useful for laying special piping in difficult soil. After the excavation and the laying of the piping, the site must be filled in again, thus requiring other trips to the waste dump to purchase the same debris material that was dumped a few days before, crushed and prepared in a size suited to filling in the trenches. Thanks to the MB crusher bucket, all this is work is reduced. There is something else to keep in mind: the fact that the excavation or trench is filled in with the same material that was previously excavated means that the location is formed by the same elements.

Choosing a crusher bucket, then, allows you to save time and money, at the same time boosting your profits: the crusher bucket is easy to transport, has low maintenance costs, does not require an additional operator other than the one who operates the excavator, and saves fuel that would have been used up by a mobile crusher, which would in any event be powered by an excavator. Not to mention the environmental *"cleanliness"* of jobs carried out with a minimum amount of dust and noise levels with low environmental impact.

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