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Issue 31

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In this issue

NEWS	5
QUARRYING	33
QUARRY ASPHALT - BITUMEN	59
RECYCLING	71
RECYCLING - BALERS	85
BULK HANDLING	87
BULK HANDLING - IFC + FBC's	92
CLASSIFIED	94



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UK aggregates markets continue to recover

Although aggregates volumes fell in 2012, volumes recovered by 6% last year with growth continuing to increase in 2014.

Production has been increasing in both sand and gravel and crushed rock. However, companies in the Midlands and South appear to be enjoying a better recovery than suppliers in northern England and Scotland.

These are some of the conclusions of the annual BDS report on the aggregates industry entitled: 'Estimated outputs of pits, quarries and marine wharves in Great Britain'. This report is the only independent source of information on the outputs and shares of all sites and companies in the country.

Commenting on the report, principal consultant, Julian Clapp said: 'Volumes in the first half of 2014 have increased by more than 10% over the same period last year. We do not expect the same pace of growth in the second half of the year. However, outturn aggregates volumes for 2014 could still be 8% higher than last year. Current indications suggest further growth in each of the next two years'.

BDS has found that Lafarge Tarmac is the largest aggregates company in the UK, with a share of around 25%. The next largest companies are Aggregate Industries, Hanson and Cemex. Together, the consultancy estimates that these four companies have over 60% of the market.

As well as outputs and market shares, the report lists over 50 quarries that have closed, mothballed or opened over the last year. The industry continues to evolve. Although there have been no major acquisitions in the past year, BDS has also identified 26 quarries that have changed ownership during this period.

Publication of this report is timely as it has recently been announced that Lafarge Tarmac is to be sold. 'Our annual survey of the aggregates industry will be a valuable reference document for all companies considering making an offer for Lafarge Tarmac.

It will tell them the market position of the company in all local markets, relative to its competitors. It will also benefit other businesses with an interest in the sector' said Julian Clapp.

www.bdsmarketing.co.uk



Komatsu Europe Launches PC210LCi-10 Hydraulic Excavator with Impressive UK Open Day

David Roberts of the HUB recently went along to Komatsu in Birtley, Co Durham for the UK launch of the new PC210LCi-10 excavator, the world's first intelligent Machine Control excavator, and also took a tour of the production facility.



Marc Blondeel and John Lowson of Komatsu Europe

The impressive production facility opened in 1987, and the plant currently employs nearly 400 staff. It produces a range of hydraulic tracked excavators from a size range of 16 to 80 tonnes operating weight. Since the plant was opened it has produced over 60,000 machines, the greater proportion of which have been exported to Europe and North Africa. This has contributed greatly

not only to the local economy in the North East, but also the UK's balance of payments. In addition to normal hydraulic excavators the plant also produces specialist long reach and demolition excavators. Models currently produced by the Komatsu Birtley Plant are the PC 190LC/NLC-8, PC 210/LC-10, PC 240LC/NLC-10, PC 290LC/NLC-10, PC 360LC/NLC-10, PC 490/LC-10, PC 700LC-8 and PC 800/LC-8.



Visitors were able to take control of the PC210LCi-10 excavator machine control and guidance system for themselves under the watchful eye of the Komatsu team

The process of quality control is key to the facility and each part of the production process is 'owned' by each technician, and the work completed is signed by each person right through the production process, so adding accountability and ownership to quality control and making for a much higher standard of manufacture.

Out on the custom built demonstration area we were introduced to the new PC210LCi-10 excavator. A Komatsu and world premiere, the PC210LCi-10 features Komatsu's exclusive machine control and guidance system, fully integrated with all other qualities and benefits of a standard Komatsu PC210LC-10 excavator. Thanks to the exclusive control function, the operator will no longer worry about digging too deep or damaging a target surface. From rough digging to finish grading, the PC210LCi-10 excavator can dramatically improve efficiency, precision and safety on the work site.

Visitors were able to get 'hands-on' and actually try out the PC210LCi-10 machine control and guidance system for themselves, under the watchful eye of the Komatsu team, which was incredibly effective in showing how beneficial this system actually is.



The new PC210LCi-10 excavator at Komatsu's impressive on-site demonstration area



Work completed is signed by each person right through the production process

Factory installed, Komatsu's fully integrated intelligent Machine Control system includes stroke sensing hydraulic cylinders for the boom, arm and bucket, newly developed by Komatsu for precise real time bucket edge positioning. The IMU (Inertial Measuring Unit) gives precise machine orientation and determines machine angle from gyro and accelerometer data. High performance antennae send satellite signals to a GNSS receiver that processes them and provides real time position of the machine.

With the world's first intelligent Machine Control excavator, the bucket is automatically limited from digging beyond the target surface. The control function maintains grade automatically, with real-time bucket edge positioning in relation to the machine and the job surface. Status is instantly displayed on the full colour, multi-function 12.1" control box monitor, eliminating the wait time associated with conventional sensors.

The Komatsu PC210LCi-10 intelligent Machine Control excavator lets the operator focus on moving material efficiently, with no worry about digging too deep. The touch screen control box monitor, makes grading easy and accurate with a facing angle compass, a light bar and audio guidance.

Information such as real-time "as-built" status, a magnified fine grading view or a 3D bird view can be displayed simultaneously. By setting 3D design data on the control box monitor, staking can be reduced or eliminated, as can surveying and final inspection. Safety is greatly improved, with less people needed on the job site and near the machine.

The latest KOMTRAX™ technology on the PC210LCi-10 sends machine operating information to a secure website utilizing wireless technology. Data such as operating hours, fuel consumption, location, cautions and maintenance alerts are relayed to the web application for analysis. The KOMTRAX™ fleet monitoring system increases machine availability, reduces the risk of machine theft, allows for remote diagnosis by the distributor, and provides a wealth of other information to drive business efficiency and productivity.



The PC210LCi-10 excavator has a revolutionary machine control and guidance system

The PC210LCi-10 is supported by Komatsu CARE, a complimentary maintenance program for Komatsu customers that comes as standard with every new Komatsu EU Stage IIIB construction machine. For the first three years or 2,000 hours it covers factory-scheduled maintenance, performed by Komatsu-trained technicians with Komatsu Genuine parts. Komatsu CARE offers up to a maximum of 2 complimentary Komatsu Diesel Particulate Filter (KDPF) exchanges and a KDPF warranty for the first 5 years or 9,000 hours. Operating weights range from 22,620 kg - 23,480 kg, depending on the configuration, with a net 123 kW (165 HP) @ 2,000 rpm. Other specifications are identical to those for the Komatsu PC210LC-10.

The unique benefits of Komatsu's intelligent Machine Control system on the new Komatsu PC210LCi-10 excavator are summarized by an outstanding improvement in productivity. This is achieved by consistent accuracy when rough digging, and by completing final grade automatically in just one pass. Cycle times and operator performance are thus improved with a reduced risk of error, and lower costs for fuel, labour and machine utilisation.

To find out more please visit www.marubeni-komatsu.co.uk



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The EC380E and EC480E excavators from Volvo Construction Equipment are built to deliver exceptional digging and breakout forces for optimum productivity. Equipped with a Volvo Tier 4 Final/Stage IV-compliant engine and Volvo's unique ECO mode, these excavators combine up to 9% increase in fuel efficiency with a powerful performance. The Volvo EC380E and EC480E: the ultimate heavy-duty production machines.

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Volvo Construction Equipment





RWM NEC BIRMINGHAM

Best RWM yet closes its doors for 2014

RWM took place from 16 to 18 September at Birmingham's NEC and featured over 600 exhibitors and hosted just over 13,000 visitors* across the three days. Next year's event returns to halls 4 and 5 at the NEC from 15 to 17 September 2015.

This year's show presented its strongest conference and investment programme to date. Featuring two government ministers, Dan Rogerson MP and Rt. Hon. Eric Pickles MP, alongside more than 140 expert speakers, the conference took place in three dedicated theatres throughout the three days. The RWM ambassador group also announced the winner of its £15,000 fund (WasteAid) and presented their report on the Circular Economy to Dan Rogerson.

Confirming the show's success, 66% of exhibitors re-booked for 2015 before the show closed - an increase of 30% on last year and an event record.

Russell Bacon, portfolio director for the environment events at i2i Events Group, including RWM in partnership with CIWM, added: "2014 has been a hugely successful year for RWM, not only in terms of feedback from visitors and exhibitors, but also in terms of our investment in the industry. This year, the new

RWM Ambassador group announced its first annual award and we're also sponsoring a post-graduate qualification for a waste professional at the University of Northampton.

"The move to halls 4 and 5 also enabled us to grow the machinery, handling and logistics aspects of the show - the sheer size of the machines displayed inside was breath-taking. Key exhibitors such as Blue Group were able to move indoors, and reported their best show ever, as did Vehicle Weighing Solutions."

Steve Lee, chief executive of CIWM, said: "It was an impressive show, with the new central location in Halls 4 and 5 working extremely well. As well as giving the event a fresh feel, the new layout made for easier navigation for visitors and a better sense of the sheer size and breadth of the offering.

"We were delighted to be able to welcome two government ministers this year, as well as host of high profile speakers - and RWM's investment in the new Circular Economy Connect theatre and the RWM ambassadors underlines its commitment to providing a forum for the waste and resources sector as it engages with this important agenda," he added.

Some visitors commented on show, for example, Ian John, head of planning at Viridor who said: "It was good seeing Mr Pickles in the flesh and listening to what he had to say in the Circular Economy Connect Theatre. It was a really interesting debate between him and the audience and I'm glad I came."

Commenting on the new location, Geraldine Carberry, trader at Mission Recycling, said: "I've been coming to the show for the past five or six years and although I mainly come to meet clients, I always hear about products that I didn't know existed. The new location is interesting, and I've found it very easy to navigate around the show floor."



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Damien Quinn, MD and the TrommALL team



Master Magnets generating business at RWM



Conveyortek at RWM



The Barr Environmental Ltd & EMS Ltd teams



Middleton Engineering looking for new business at the show



The UNTHA team



Brigade at RWM showing off their Backeye 360 system



Sean Heron and his team from Worsley Plant



The Finning CAT team launch Finning NEWS!



The CK International Team



Milko Wolf, International Sales Manager of GÜNTHER Envirotech



Ritchie Bros at RWM



David Croft, Marketing and Communications Manager, Liebherr GB



Nick Jobson, Director of JARSHIRE



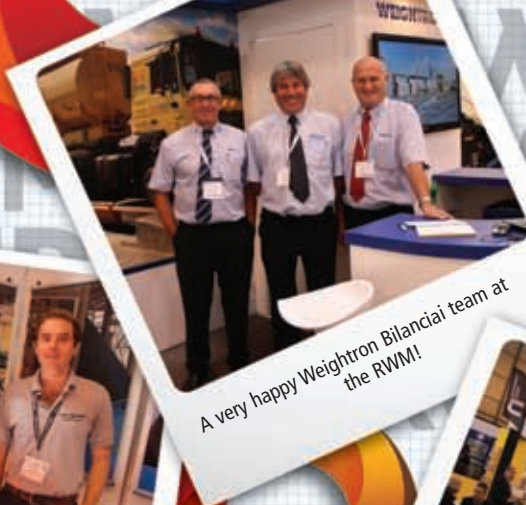
MENART at the RWM Exhibition



Rossi showing off their products at RWM!



Martin Brough, Julie Smith and Liam Holland of CMB International



A very happy Weightron Bilancial team at the RWM!



The RENTEC Recycling team at RWM 2014



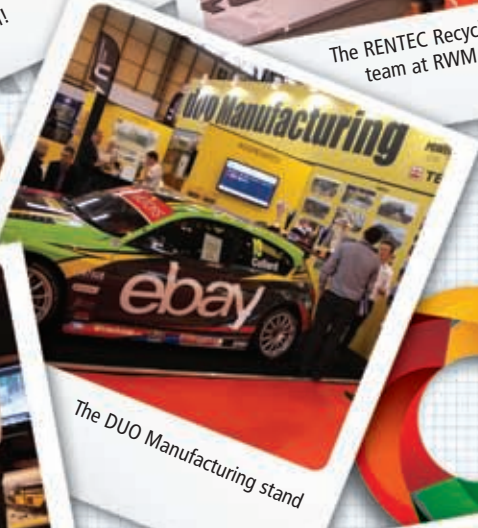
Allan Kane, Marketing Manager & Pat McGeary, CEO of BLUE Group



Dan Stevenson and Chris Pratt of Hewitt Robins



Karen Hawtin, Marketing Manager with Richard Yarwood, Managing Director of ECY Haulmark



The DUO Manufacturing stand



The KTR Couplings Team



Helen Stott of Chain+Conveyor and the wheel of fortune!



Noel Good, Managing Director of Herbst Machinery



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Charlotte Eames, Marketing Executive and Rachel Wichall, Marketing Consultant of Ebbsfleet Engineering Services with the star of the show Rusty



Geoff and Adam Hindle of Approved Hydraulics



Carlton Hicks and Simon Ayling of Bunting Magnetics Europe



The PRESONA Team at RWM



Thomas Haughey of CRS NI





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Mogensen at RWM 2014

Mogensen Raw Materials Handling reports that its presence at this year's RWM Show was successful and the enquiry rate was very strong, with the additional benefit that the exhibition demonstration screen was sold to a well known recycling Company. The equipment is to be installed to perform a fines separation of recycled metals.



Nick Law, Mogensen Sales Manager, says that Mogensen has been supplying equipment to the recycling industry for over 30 years. Originally the main markets were in the glass and tyre processing sectors. Over the years, however, the range of processes involved has increased to the point, at which the company is now involved in almost every conceivable recycling and waste management sector processing solids, slurries and liquids. The application of vibration technology is, he points out, an essential part of many recycling processes being used not only for traditional screening and feeding applications but also to maximise the efficiency of other processes such as air separation, and magnetic and optical sorting.

Mogensen offers a broad range of standard and bespoke equipment suitable for most materials, and draws on its more than 50 years' experience of vibratory equipment manufacture, both to modify existing designs and to custom-design new equipment to suit specific process requirements.



www.hub-4.com/directory/583

A successful launch of the Rubble Crusher at the RWM for CMB International



L to R: Martin Brough, Julie Smith, Liam Holland

First time RWM exhibitor, CMB International enjoyed three days of interest on their newly launched RC150 Rubble Crusher. Ideal for many recycling applications the new machine attracted significant enquiries on each day of the show.

This is a completely new venture for CMB International who is an established manufacturer and equipment supplier in the aggregates industry. Based in Ravenstone, Leicestershire the company have designed and developed the new RC 150 machine utilising years of in-house experience.

Julie Smith - Commercial Director, commented, "We had a considerable amount of interest in the new machine at the show. We have continued to develop the machine and we now have three options available. It has numerous applications and is a very 'green' environmentally friendly piece of kit."

The RC150 can be viewed on demonstration by request and CMB are confident that it is a 'total solution' for low to moderate crushing projects.

Julie, further commented, "A lot of visitors at the show commented on our background in crushing. It gives the prospective purchaser a lot of confidence when our history in this area is taken into account. A very robust machine with minimal maintenance - it's a winner all day and every day!"

The RC150 is now available for demonstration and a trial can be booked on: +44(0)1530 563600 or contact sales@cmb.uk.com



www.hub-4.com/directory/185

RWM launch for new JCB Wastemaster Backhoe Loader

JCB's brand new 5CXWM backhoe loader is launched to the UK's waste and recycling industry at RWM. 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.

Customer feedback has helped to shape this flexible and productive machine, which is fitted with a package of purpose-built features, tailor-making it for arduous waste environments. Thanks to its ability to power an extensive range of specialist attachments, the JCB 5CXWM is perfect for household waste recycling centres, transfer stations, sorting, shredding or baling facilities.

The JCB 5CXWM offers unrivalled versatility at a price which is less than the wheeled excavator typically seen on site. Its ability to perform a variety of roles also eliminates the need for other machines such as forklift or pallet trucks - further increasing cost savings.

This specialist new model incorporates additional length rear stabilisers and a front frame or Waste Multishovel with top grab, both incorporating hydraulic legs. This combination raises the entire machine well clear of the ground, offering exceptional views into a bin, shredder or baler when compacting or loading material with a selector grab, jaw bucket or dedicated compaction wheel.





However, additional attachments ensure that the JCB 5CXWM is highly effective for more than just loading or compaction. These include a selector grab for handling or sorting waste material, bale grabs for loading out bales, and a sweeper collector for keeping the site clean and tidy. Furthermore, a unique hook lift for manoeuvring bins and skips gives clear advantages over other machines in terms of site productivity.

The range of purpose-designed bucket options opens up a wide array of typical waste re-handling tasks. At the loader end, users can choose between high-capacity general-purpose, 6-in-1, or top grab buckets, depending on the application and nature of the load. At the excavator end, a hydraulic jaw bucket, a selector grab or a mechanical grapple both deliver highly effective materials handling capabilities.

Safety on site is enhanced by superb all round visibility from the cab, high visibility stabiliser chevrons, convex mirrors, rotating beacon and a

reversing alarm. Machine protection is assured with the inclusion of additional boom protection, rear screen impact protection, light guards and puncture protected tyres.

This high specification new machine features the powerful 81kW (109hp) JCB Ecomax engine and incorporates innovations such as Advanced EasyControl and 4-speed Powershift transmission with TorqueLock. As a result, the road performance and exceptional fuel economy of the 5CXWM means that travel between sites is fast, easy and cost effective compared to other equipment used in comparable applications, and controllability is excellent once it arrives.

In addition, the 5CXWM uses the most robust loader arms and axles available. It has a full reach of 7.10 metres at the excavator end and excavator type seat mounted controls for easy operation. It boasts air-conditioning, an immobiliser, JCB LiveLink telematics and the latest JCB Powerslide system - which offers assured excavator movement from side to side across the whole of the machine's rear frame - all as standard.

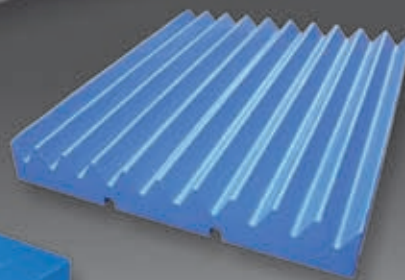
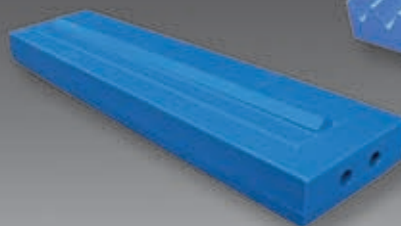


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Health and safety leaders Finning sign CIWM pledge



From left to right: CIWM CEO Steve Lee with Finning's Adam Langdale

Establishing themselves as leaders within the waste and recycling industry's Health & Safety movement, Finning have officially signed up to the Chartered Institution of Wastes Management's 'The Pledge'. The UK and Ireland distributor of Cat® and Komptech equipment joins CIWM in championing the mantra "Stay Safe, Save Lives".

Recognising that 16 people lost their life within the UK waste and recycling industry in 2012/13, CIWM is looking to significantly improve Health and Safety across the sector. Finning is one of principal industry organisations to sign, pledging to go 'above and beyond the law' in focusing on health, safety and welfare across its organisation.

Adam Langdale, Industrial and Waste Business Manager at Finning stated: "At Finning we take great pride in our Health and Safety culture. We strive to be a world-class safety organisation and the welfare of every Finning employee is essential to our business. The CIWM Pledge initiative cannot be commended enough. We will stand hand in hand with them to improve working conditions for waste and recycling professionals."

This historic pledge is the latest in a string of significant Finning Health and Safety landmarks. Adam went on to add: "After winning the RoSPA Sir George Earle's Trophy in 2012 and Engineering Services Sector awards for the last four years, we want to go even further in advancing our industry wide leadership. We have now gone 437 days without a single Lost Time Incident, however we can still do more to make sure Finning employees are completely safe within working hours."

Speaking at the presentation of The Pledge certificate Steve Lee, CEO of CIWM, said: "Health and safety is of paramount importance and our industry has already shown its commitment to improving its record. We are delighted that Finning has signed up to CIWM's Health, Safety and Welfare Pledge, joining other leading sector names in going one step further to embed health and safety throughout their operations."

For more information on Finning UK and Ireland, please visit www.finningnews.com or www.finning.co.uk.



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The lucky winner...

After three days off frantic business at the RWM exhibition the HUB finally sat down with our Health & Safety partner - Mentor Training to pick the winner of our prize draw.

With many visitors entering the competition, Mentor's Marketing Manager - Emily Bonsall had the unenviable task of picking a card from the several hundred entries. We are pleased to announce that the winner is Rob Leighton - Global Business Development Manager (Alternative Fuels) of Saxlund International who will receive the prize of one day's manual handling training for up to 15 delegates at a customer location.

Mentor Training Ltd is based in Chesterfield and have a regular column within the quarterly HUB magazine.

Mentor is the UK's leading provider of training and associated services for all types of materials handling, workplace transport and mobile plant equipment. They specialise in operator and instructor courses for forklift trucks, cranes, access platforms and mobile plant, as well as safety and management training, including manual handling and abrasive wheels.

The HUB are a regular exhibitor of leading exhibitions and can be seen at Plantworx and the RWM show in 2015, please do come and say hello.



www.hub-4.com/directory/6755

CMS Cepcor further increases their manufacturing capacity



Leading manufacturer and supplier of crusher spare parts, and crusher services, CMS Cepcor have installed a new Correanayak NORMA 25 CNC bed type milling machine to further increase their UK manufacturing capacity for precision machined crusher spare parts and crusher repairs.

The new machine has been installed at their Coalville technical centre and continues to demonstrate their commitment to re-investment and UK manufacturing.

This new installation follows the success of their existing Correanayak NORMA 45 CNC milling machine commissioned in January 2013; the new NORMA 25 machine will be used to increase their capacity for machining medium to large work pieces.

The machine can be used for heavy duty roughing operations and also for highly accurate finish machining of complex components which makes it incredibly versatile. The new machine has a table size of 2800mm x 1000mm with a 6,500kg capacity and is fitted with a fully automatic indexing universal milling head.

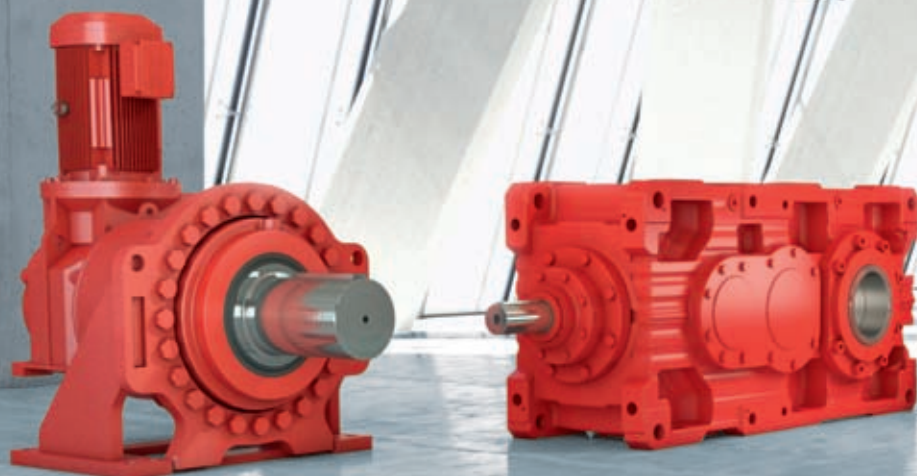
Their extensive and modern UK manufacturing facilities include CNC, milling, turning, boring, slotting, grinding, drilling, welding, co-ordinate measuring and material testing.



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POLLUTEC

2-5 Dec 2014

Lyon Eurexpo, France

www.pollutec.com

POLLUTEC, which runs from 2nd to 5th December at Lyon Eurexpo (France), will be highlighting new developments and all that the environment and energy industries have to offer in response to the major, cross-sector challenges that confront them. This 26th Pollutec edition, will bring together some 2,300 exhibitors, including 30% from abroad, in order to satisfy the expectations of professionals (engineers and technicians, decision makers, specifiers) searching for innovative and high performance equipment for their activities.

As a general show, POLLUTEC covers all sectors of the environment and the topics that are at the heart of current concerns such as the management of emerging pollutants, the circular economy (preservation of resources, eco-design, the recovery and exploitation of materials), atmospheric pollution, urban mobility, biodiversity and natural risks, all of which are viewed primarily in terms of innovation and expertise. In keeping with recent developments, the AMM (analysis-measurement-monitoring) sector is being transformed into the IMA (instrumentation-metrology-automation) sector by expanding to take on board topics linked to process performance. As part of its global approach, the show is highlighting solutions to three major cross-sector challenges: sustainable urban development (Sustainable City focus), high performance, responsible production (Sustainable Industry focus) and sustainable development in the hospital environment (Hospitals and Sustainable Development focus), with each focus being supported by a dedicated programme.

There will also be some 400 lectures open to all dealing with important current topics. Ones that have already been announced include regional waste management, the fight against illegal sites, the exploitation of plastics and metals, post-disaster waste management, the circular economy and the urban mine, smart water, rainwater management, energy efficiency, energy storage, self-supply, air quality and health, the hydrogen model, ecological engineering and the impact of developments in regulations on the energy transition.

Over the four days there will be a host of innovative solutions on show on the stands, competing for the various awards and trophies and in the forums and themed villages organized by the show's expert partners. A new Innovation Business Lounge will focus on French and European cleantechs. Specifically, it will be hosting the LeCleantech business meetings, which bring together start-ups, major groups and investors to address the latest trends and business opportunities in the market. For more info please visit www.pollutec.com



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Please visit us on Stand 262 - Hall 3 - Alley E at the Pollutec in Lyon, France from 2 until 5 December 2014

Weighing Specialist Precia-Molen Acquires Shering Weighing as Part of UK Strategic Expansion



Picture: L to R: Rene Colombel, Chairman and Managing Director Precia-Molen Group Anne-Marie Perin Escharavil, Chair of the Precia-Molen Supervisory Board, Douglas Shering, Former Chairman and Managing Director Shering Weighing Limited, John Swinburne, Managing Director Precia-Molen UK and Shering Weighing Limited

Global specialist weighing company Precia-Molen has recently completed the acquisition of Shering Weighing Ltd, who are based in Dunfermline, Fife in the UK.

Founded in 1946, Shering Weighing Ltd is a foremost brand in the UK weighbridge market having a long tradition of quality, technology and innovation. In recent years the company has gained a growing reputation in some export markets for weighbridges and driver operated systems, enjoying a large client base comprising product sales and maintenance contracts in both export and domestic markets.

Precia-Molen is well positioned to deliver weighing solutions anywhere in the world with operating companies in ten European countries as well as international operations in Brazil, Australia, India, Malaysia and Morocco supported by a network of agents/distributors. Specialising in both static and dynamic weighing across a broad spectrum of industry has earned them an enviable reputation for innovation and quality at the forefront of weighing technology.

Rene Colombel, Chairman and Managing Director of the Precia-Molen Group commented "this exciting acquisition forms part of the Group's strategic development to grow the business globally. Both companies share strong family values and this synergy makes Shering a perfect fit for our business."

Established in the UK in 1966, Precia-Molen UK is located in Redditch, Worcestershire where a UK-wide sales and service operation is delivered. John Swinburne, Managing Director of Precia-Molen UK Limited commented "the acquisition of Shering Weighing Ltd will benefit their customers by providing an increased product portfolio, particularly dynamic weighing and vessel weighing products, to satisfy a wide range of weighing solutions. Additionally, an increased service resource will enable us to deliver enhanced levels of service to both Precia-Molen and Shering Weighing customers."



www.hub-4.com/directory/683

Decarbon Capital 

Vulcan Burners the burner of choice for CEMEX

Cemex UK accesses energy and CO2 savings via £5m fuel switching investment.

A Landmark utilities connection agreement sees CEMEX reduce operational expenditure and CO2 emissions through innovative third-party investment solution from Decarbon Capital.

Decarbon Capital and CEMEX UK, the leading building materials solution provider, have successfully achieved a landmark private investment whereby CEMEX will connect 10 of their UK sites to the national gas and power transmission systems. The investment will reduce their dependency on transported fuel oil and diesel, saving 7,500 tonnes of CO2 annually and achieving a material reduction in their annual energy costs.

Decarbon provided the investment mechanism with performance based repayments and sourced the most appropriate funds to achieve CEMEX's goals. The one key element to guarantee the success of the savings was the choice of the combustion burner. The Vulcan ranges of burners designed by Asphalt Burner Services and are produced in the UK. The Vulcan Burner will specifically deliver the most efficient combustion requirements to the asphalt production process. This will bring the total number of Vulcans in operation throughout the UK this year to 34.

This investment follows on from a successful pre-cursor fuel switching investment which took place at CEMEX's Lincoln plant in August 2013 after CEMEX and Decarbon signed an agreement to explore and implement funded energy saving solutions that reduce both operational costs and environmental impact. The funds for the project have been provided by the Foresight Group, the leading independent infrastructure and private equity investment manager.

Vulcan Burners work closely with third party investors, and assists customers with funding from the Carbon Trust to allow producers to implement replacement burner projects. We are confident that the Vulcan burner will deliver fuel savings which are considerably adequate to finance the project over a short period of time.



www.hub-4.com/directory/11981

KTR “eco” OAC

KTRs “eco” OAC high-performance cooler utilises a specifically developed inlet oil temperature sensor and a continuous variable speed control to constantly adapt the demand for cooling power, thus improving the energy efficiency of the system.

Benefits include savings in the life cycle costs of the system, and a reduction of noise emission, particularly at lower speeds. The “eco” also features a single-touch, reverse airflow, self-cleaning fan mode.

Incorporating IP65 electric motors, maximum cooling power is 25 kW with a temperature difference of 40 °K. The “eco” OAC is well suited for those applications retrofitting existing machines with new cooling technology.

Coolers are available in KTR sizes 300, 400, 500 and 600 - sizes 700 and 800 available upon request.



www.hub-4.com/directory/8290



Wileman replace a 30 year old scrubber barrel at Darrington Quarries

Wileman Engineers Ltd successfully installed a replacement scrubber barrel for Darrington Quarries at their Cridling Stubbs site in West Yorkshire. The original 25M45 barrel (2.5M Dia. x 4.5M long) was installed by Wileman Engineers Ltd back in 1984 to handle 150 Tonne per hour of minus 100mm limestone.

After 30 years and an estimated 9 million Tonnes later the management decided to replace the tired drum. Wileman's expertise in the installation work combined with the assistance of the Darrington Quarries maintenance staff ensured the changeover was completed over the August Bank Holiday weekend, allowing little or no loss in production.

The original running gear and support frame remains to continue the good work along with the new barrel. The barrel not only cleans and scrubs the 'all in' limestone product, but removes fines through perforated feed and discharge end modules. Wileman Engineers Ltd have been designing and installing washing barrels for 50 Years and remain the leading supplier of washing barrels in the UK.



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ANACONDA® delighted with Steinexpo results!



Anaconda® representatives have recently returned from a couple of exciting days at SteinExpo 2014, where they co-exhibited in partnership with PRALL-TEC GmbH, their official distributors for Northern Germany.



Dr. Friedhelm Rese (Trade Fair Director - Steinexpo), Catrina Quinn (Marketing Manager - Anaconda) , Michael Burns (European Dealer Manager - Anaconda)

PRALL-TEC are very well known in the German market for their range of crushers and this partnership enables them to offer the complete crushing and screening solution to their customers.

The exhibition is an outdoor trade fair which takes place in an operating Bauxite mine not far from Frankfurt. At the exhibition, Anaconda® showcased the SR514 Tracked Screener and a Tracked Stacking Conveyor.



Mr. Micheal Burns, European Dealer Manager commented: "We were impressed with the sheer volume of visitors that came to see our machinery on display. The volume of enquiries was excellent. We would like to say thank you to the set-up team and to the show organizers for such a well run event."

Mr. Catrina Quinn, Marketing Manager commented: "Following on from an excellent Hillhead show in the UK earlier this year, the SteinExpo show was a tremendous success for many reasons - enquiries to follow up on, brand building and of course dealer relations! "

Anaconda® sells and supports their full range of products through a global dealer network. The company is looking to expand the network of distributors in other parts of Europe including South and East regions of Germany. For further information on the products manufactured by Anaconda® or to find out which dealer is in your region please email sales@anacondaequipment.com.



www.hub-4.com/directory/12687

Terex Finlay introduce new crushing and screening models at Global Dealer Conference

Terex® Finlay based in Omagh, recently hosted a three day dealer conference including new product demonstration in London, United Kingdom. The event was held from Tuesday 30th September through Thursday 2nd October, 2014. The event attracted over 300 international dealers and customers from over 90 countries, worldwide.



A packed program of events included a business conference, live product demonstrations and an end-user open day.

During the conference, held at the Tower Hotel, London, delegates were introduced to the Terex Finlay business strategy and key focus areas for growth in the next three years. Key to Terex Finlay growth and expansion plans is an aggressive new product initiative and development strategy which will see the business double its current product range in the same time period.



The product demonstration events were located at OCL Regenerations, Dartford. OCL Regenerations are recognized as both experts and leaders in providing sustainable material solutions in the South East and were the perfect hosts during site preparations as well as during the two day site demonstrations.

The onsite demonstrations featured twenty recent product launches and prototypes of Terex Finlay models due to be released during 2015.

There were three official new product launches to dealers and end users at the conference;

1. J-1175 dual power jaw crusher
2. C-1540 dual power cone crusher
3. 693+ inclined screen incorporating innovative Spaleck screen box.

The dual powered crushers are electrically driven allowing users to run from electrical supply with the aim of giving significant savings on energy costs. These machines are also fitted with an onboard gen-set allowing the operator to move and use the machine where there is no electric supply giving the flexibility and versatility of current standard models. These machines join the 694+ dual powered inclined screener that was launched in 2013.

These product launches means that Terex Finlay can now offer operators a full mobile crushing and screening train that can be powered from mains electric and has the flexibility to run self-powered if required. In applications where a full train is powered by the on-board gen-set configuration the crushers generate sufficient energy to enable the operator to run the 694+ dual power inclined screen for 'free' when used in conjunction with the J-1175 dual power jaw crusher.

The third new product launch was the NEW 693+ inclined screen incorporating Spaleck screening technology. This exclusive screen features a unique flip-flow top and bottom deck guaranteeing first class screening of materials including; wet, moist, dry and mixed materials including recycling and skip waste, fines material, compost, waste wood, timber, aggregates and ores.





The official launch of these three machines follows a stringent and strenuous development cycle which has seen the machines tested and proven in challenging and diverse product applications across Western Europe. In addition to these new product launches a large number of prototype machines were previewed including the:

J-1170AS Jaw Crusher

The NEW J-1170AS jaw crusher provides the flexibility of a crushing and screening plant on one machine. This aggressive machine features a detachable on-board sizing screen that gives operators the capability of producing two spec sized products. The machine was demonstrated working in a concrete recycling application and will be launched in Q1, 2015.

V-2050 Vertical Shaft Impactor

The NEW V-2050 vertical shaft impact crusher has been engineered for operators who require a high specification product and large production tonnages. The machine incorporates the proven Canica V-2050 chamber with unique 'Dual Flow' configuration that will give operators high tonnage throughput with low production costs.

C-1554 Cone Crusher

The NEW C-1554 cone crusher has been engineered for operators who require a highly aggressive cone with a high reduction ratio. The machine incorporates the renowned MVP450X Screw Cone chamber. The highly efficient cone chamber produces a higher % of sized products in a single pass generating less fines material and therefore a more valuable product with increased profitability.



C-1545 Cone Crusher

The NEW C-1545 cone crusher has been engineered for operators who require a medium sized cone crusher with large throughput capacity whilst offering the flexibility of direct feeding or the ability to remove or bypass fines from the chamber via on-board pre-screen module.

873 Heavy Duty Screen

The NEW 873 heavy duty screen has been engineered to work as a primary screen in quarry, demolition, C&D Recycling, landfill material, topsoil, sand and gravel, coal, slag, ore processing and aggregates. This new model when launched will offer small and medium sized operators an aggressive, flexible and class leading machine with a wide range of available screening media configurations.

Nigel Irvine, Sales & Marketing Director, commented: "It was our pleasure to welcome a huge contingent of our International distribution network to London for the 2014 Terex Finlay Business Conference. This event provided an ideal platform to showcase the significant level of investment in new product development across our entire range. An impressive display of 20 machines in one location physically demonstrated the breadth of our product portfolio. During the conference, we outlined our aggressive new product road map, shared a clear vision of where we and our business partners should be positioned in the coming years and reinforced our commitment to provide world class products, supported by exceptional levels of customer service. The conference stamped a solid signal of intent to grow our businesses together, for mutual success. This was an exceptional and an exciting event."



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Exhibitions & Events Diary



Bauma China 2014

25-28 Nov 2014

Shanghai, China

www.bauma-china.com



RWM

15-17 Sep 2015

NEC, Birmingham, UK

www.rwmexhibition.com



POLLUTEC

2-5 Dec 2014

Lyon Eurexpo, France

www.pollutec.com



Bauma 2016

11-17 Apr 2016

Munich, Germany

www.bauma.de



INTERMAT

20-25 April 2015

Paris-Nord Villepinte, France

<http://paris-en.intermatconstruction.com/>



IFAT

30 May - 3 June 2016

Munich, Germany

www.ifat.de



PLANTWORX

2-4 June 2015

Bruntingthorpe Aerodrome, UK

www.plantworx.co.uk



CONEXPO

7-11 March 2017

Las Vegas, USA

www.conexpoconagg.com



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1ST Birthday celebrations for the Terex® Aggresand 165 Washplant

Terex Washing Systems (TWS) is celebrating the first birthday of the Terex® AggreSand 165 washplant following the official launch in Ireland in September 2013. A lot has been achieved in the last year, with the successful installation of the AggreSand 165 washplant in 5 continents over 10 countries, processing up to 10 million tonnes.

Garry Stewart, Application Team Lead, TWS, commented, "The market has really embraced the AggreSand™ washplant concept with exceptional demand at the moment. To date, TWS has installed multiple AggreSand™ 165 washplants around the globe. We are constantly looking at innovative ways to further enhance and develop our existing products so we can continue to meet the individual needs of our customers."

TWS hosted a number of events in 2013 to officially launch the AggreSand™ 165 in both Ireland and USA. The AggreSand™ 165 was also displayed as part of a double bill at the recent Hillhead 2014 show, UK. The most recent event to showcase the AggreSand™ 165 was at the first of several planned open days in 2014 in the Australia market. The event was hosted by Dubbo Sands, NSW, Australia, on 30th - 31st July 2014 where the plant was recently installed. Owners Mardi and Graham Colbran, commented "The professionalism and dedication from TWS and Mineral Washing Systems (one of TWS Australian distributors), starting with purchasing right

through to commissioning has been outstanding; we feel that there is nothing else currently on the market, that even comes close. We chose the AggreSand™ 165 washplant for ease of setup, having the ability to minimize disruption to our site. Our AggreSand™ 165 washplant incorporates the Pre Wash system which enables us to bring our sand into spec in just one pass, whilst producing 3 aggregates, giving us a very cost effective operation. The quality of design and construction of this plant is easily seen, a lot of thought has gone into access for servicing to pumps, screens, and the controls, including remote operation from the loader, all of which, are user friendly, this plant demonstrates what washing sand should be, "Easy". We are positive ours will be the first of many hitting Australian shores."

The introduction of the AggreSand™ 165 concept was in response to both changes in the marketplace and customer demands, which consists of the AggreSand™ 165 washplant (up to 250tph) model and the larger capacity, AggreSand™ 206 washplant, (up to 400tph). Central to the development of the AggreSand™ concept was modular design, serviceability and functionality, making it quick and easy to set-up and easy to maintain. Customers also benefit from the unique design which includes full containerization of the machine for ease of transportation, rapid set-up time, pre-wired & pre-plumbed plug & play componentry, isolated spray bars and a simple automated control system, all of which have been delivering efficient, productive performance for current owners.



The ongoing TWS commitment to meeting customers' needs saw the introduction of another new pioneering product in 2014, the impressive AggreScrub™ 150, designed to operate both as a stand-alone unit as well as having the ability to seamlessly integrate with the AggreSand™. The AggreScrub™ 150 is designed to deal with stubborn clay bound material which cannot be removed by rinsing or screening alone. The AggreScrub™ product is shortlisted as a finalist in the "World Demolition Awards 2014", in the "Innovation - Series Product" category and winners will be announced at an awards ceremony on 7th November. The Terex® Aggwash™ plant was the winner of this particular category in 2010.

Since TWS was established in July 2012, the company has gone from strength to strength and is now firmly established as one of the leading material and mineral washing solution providers in the global marketplace. The introduction of three new products over the last year demonstrates the ongoing TWS commitment to meeting customers' needs through providing pioneering ways to wash sand, gravel, aggregates, wood and C&D waste. As a result of this growth and in response to market demands, TWS has expanded the team globally to provide a full and dedicated line of support for the TWS distributor network and customers.

Product Line Director for TWS, Sean Loughran commented: "We are delighted to continually welcome new talented and skilled team members to the TWS team. The experience they bring will ensure TWS offers the same quality support and services locally as well as in our other centers of excellence in USA and India. TWS is committed to providing first class service, expertise and knowledge in the field of mineral and material washing from initial concept of plant ideas through to after sales service and support."

TWS looks forward to more successful months and years ahead and will continue to focus on introducing further innovative and new solutions for quarry, aggregate, mining and C&D recycling industries, continually meeting customers' needs and specific washing demands.

For more information on these systems and our full product portfolio, log onto www.terex.com/washing

 www.hub-4.com/directory/15386



Competition

Win a set of 8 High Output Wilderness LED Compact Lights

Wilderness lights not only look good but they are also very tough! With a market leading water and dust ingress rating of IP69K meaning you can actually wash the lights with a hot water high pressure spray - this rating is the highest level achievable. They are guaranteed with a no quibble 3 years warranty, a market first, our Compacts are the brightest on the market being the only manufacturer using class A 10w LED in this size, giving a massive light output of 3200 lumens. When you consider a normal halogen puts out 800 lumen you can see why these lights are such a bright idea to use on today's machinery and plant.

Wilderness Lighting have teamed up with HUB to offer one lucky winner a set of eight of these fantastic lights in any of the 3 beam patterns you like, Spot for long distance, Flood middle distance and peripheral vision or diffused giving 270 deg of bright light over a 25 to 30 meter area. Good Luck!!

To enter the competition please visit <http://www.hub-4.com/directory/16744/wilderness-lighting>

 www.hub-4.com/directory/16744


New Area Sales Manager Appointed

Mr Pat Cavanagh has been appointed as the new Area Sales Manager for Maximus Crushing & Screening. Mr Cavanagh joined the Maximus team on Monday 29th September and will be responsible for sales in the North and South of Ireland.

"Mr Cavanagh's in-depth knowledge, motivation and experience in the crushing & screening environment will be very beneficial to our company and we are confident that he will make a significant contribution to the sales and success of Maximus Crushing & Screening. The volume of enquiries and interest that Pat has had so far in our products is incredible. Pat has already sold his first 522T to a new customer in Limerick. We are more than confident he will be pleased with the machine," said Mr Shane O'Neill, Managing Director.

We all wish Pat the best of luck in his new role.



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Steelweld Fabrications a leader in quality laser cutting and fabrication services

Steelweld Fabrications Ltd, over a 30 year history, has firmly developed into a leader in quality laser cutting and fabrication services across the UK and Ireland. This has resulted from a determination to deliver quality products, on time every time, at competitive prices to their growing list of partners. Working closely with their diverse range of customers, the Steelweld team prides itself on being the chosen partner to assist them in meeting their goals.

Steelweld Fabrications Ltd has made significant investments over the years to ensure sustained success in terms of delivery, quality and cost and ultimately the success of their partners both locally and internationally. They continue to invest having recently installed two new 3040 Trumpf lasers and a Durma 640 ton, 8m tandem press-brake. This increased capacity will enable Steelweld to satisfy the increased demand for steel kits and fabrications into the industrial centres in England, Scotland, Wales and further afield in mainland Europe.

Full capabilities include:

- Three Trumatic 4mx2m 4kW lasers, a Trumatic 6mx2m 6kW laser and an Esab Hi-Definition 10mx2.5m Plasma. Two lasers are equipped with automatic Liftmaster technology. Lasers cut up to 25mm, plasma up to 50mm
- 160t x3.5m, 300t x4m and 640t x8m tandem (2x4m) Durma press-brakes and 130t x3.2m and 320t x4.2m Trumpf press-brakes
- All fabricators are certified to BSEN287.Pt1. They have several fabrication production lines set up for: flexible volume production of heavy fabrications, small batch cells for light fabrications and high volume lines. Steelweld have particular expertise in large heavy fabrications with dedicated product lines set up for large chassis. They are one of the largest suppliers in the UK of chassis for machines such as quarrying crushers and screeners. 13m, 10ton fabrications are the norm for many of their skilled fabricators

Leading shot blasting technology and state of art 13m spray booth with combi-oven. They can blast and spray paint to exact customer's specified standards and ensure controlled cure cycles at temperatures up to 80°C

- Finished product solutions where they complete full, finished assembly, PDI, manage quality and dispatch documentation, package and ship product directly to their client's end users or distributors. Their flexible assembly line is currently assembling and shipping material conveyors around the world for a number of customers.

To demonstrate their commitment to their customers, employees and the environment, Steelweld have achieved and maintain the following accreditations: ISO 9001:2008, ISO 14001:2004, BS OHSAS 18001:2007 throughout their growth.

Steelweld understand it is equally important to develop the infra-structure to support increased capacity and ensure sustained high performance in delivery, quality and cost. Equipment investments are being accompanied by investments in their operational and management software systems and further expansion of their engineering support department. That is as well as a continued focus on a lean culture and on continuous improvement.

Historically operating in the quarrying and mining industry, growth of the Steelweld team has been strategically planned to integrate engineering and manufacturing experience from the construction, agriculture, transport and recycling sectors.

One of the factors that differentiate Steelweld as a supplier of choice is full understanding of their role as the production department in their customer's organisations. Far from the typical, detached customer-supplier relationship, the Steelweld engineering department gets fully integrated with their customers engineering, production and quality departments. Through processes including new product implementation and design for manufacture reviews, they strive to break down the silo walls and work with customers to ensure right first time delivery and to deliver design improvements and cost reductions. In many cases Steelweld will complete design work for customers and create full 3D models working with SolidWorks design software.



Maximus Crushing & Screening chosen by JCB as their global demonstration partner

Maximus Crushing & Screening have had a crowd pleasing appearance at the recent JCB global demonstration event which was held in September.

Organised by the JCB team, Maximus were very proud to be asked to attend and participate in the very successful demonstration.

Throughout the event Maximus staff were on hand to offer full support and assistance to each and every visitor who attended. Shane O'Neill - MD of Maximus, commented, "Appearing at the event has given us the opportunity to evaluate the reaction towards our machinery and also assess the new improvements we have made."

At the front and centre of the quarry visitors had the opportunity to view the Maximus MXJ-1 Jaw Crusher and 516 Vibrating Scalper. The MXJ-1 is one of the latest design and engineering innovations from Maximus Crushing & Screening. It is a high performance primary jaw for quarry, mining, recycling and demolition applications.



The MXJ-1 and 516 were put through their paces and functioned to their potential for the whole demonstration. The MXJ-1 which was employed in feeding the 516 heavy duty, high capacity scalper has a 16 x 5 screen box, with the largest screening area in its class. The 516 is designed to cope with the heaviest applications and can be used in construction, demolition waste, aggregates, coal, recycling and heavy rock.



Visitors were also able to experience the 522T - 3 deck screener, which was destined for a new customer in Europe. The 522T has the largest screening area of all screeners in its class. With fully adjustable fourth and cross conveyors, the 522T has the adaptability to produce large volumes of 4 top quality products. The 522T also has class leading feeder capacity and stockpile heights.

Maximus also displayed their largest stock piling conveyor from the existing Maximus range, the T80-48, again destined for a new customer in Europe. With a highly robust chassis for optimal strength in the toughest conditions, the T80-48 is ideal for any environment. Huge stock piling heights can be achieved with this conveyor; it has a 24m long, 48" wide twin drive belt and is powered by a 66hp engine

Shane further commented, "I am astonished at the amount of interest we have had since our appearance at the JCB Global demonstration. We have had several enquiries, developed a lot of new contacts, and placed a few orders since the demonstration. We would like to thank JCB for choosing the Maximus brand. We are looking forward to a building a prosperous working relationship together in the future."

Meanwhile, Maximus are keeping very busy fulfilling existing orders, upgrading the current product range and developing new designs all of which will be revealed in due course.

For more information on our products please visit www.maximusscreening.com



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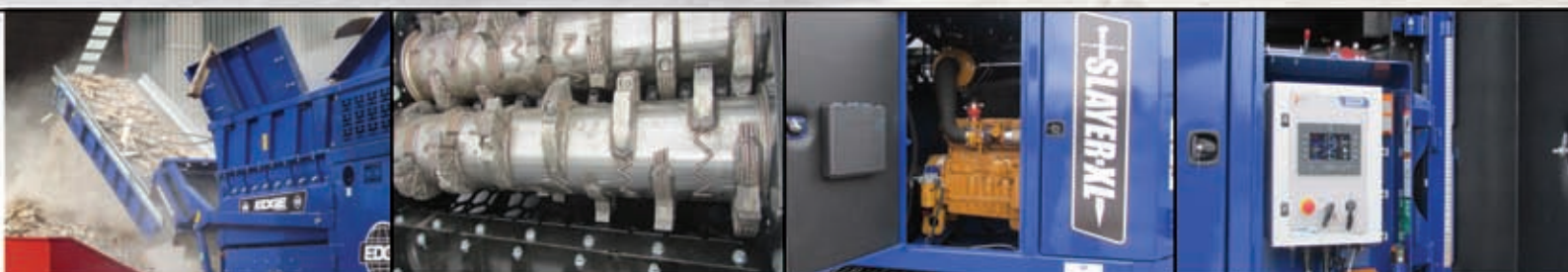


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Wordsworth Crushing Ltd adds a GIPO R131FDR Mobile Impactor to their fleet

Based in Barnsley, South Yorkshire, Wordsworth Crushing Ltd has recently invested in a GIPO R131 FDR Tracked Impact Crusher from the UK distributor - Aggregate, Processing and Recycling Ltd (AGG-PRO) of Tamworth, Staffordshire.

With more than 25 years' experience in the supply of specialist contract crushing and screening services Wordsworth Crushing the company consistently maintains an ethos of highly maintained equipment, operated by fully CITB, MPQC, SPA passport qualified, experienced and reliable drivers. They have completed projects for many high profile clients including: Tarmac Lafarge, CEMEX, Hanson's, Breedon, Hope Construction Materials and Lightwater Quarries.

The recent choice to purchase the new GIPO machine at the recent Hillhead exhibition was made after careful consideration and comparison with other high end, similar size impact crushers that Wordsworth currently have in use.

Oliver Wordsworth - Director, commented, "The investment in the new GIPO R131FDR was based on its suitability for both quarrying and recycling operations. The new machine has some unique features that make it stand out from other manufacturers coupled with the fact that AGG-PRO have supplied and successfully supported over 8 other mobile crushing and screening machines for us in the last 3-4 years."

The GIPO R131FDR Tracked Impact Crusher

The GIPO R131FDR has some very noticeable features. The complete chassis height is constructed to create at least 500mm clearance from the quarry floor to any moving parts; this reduces the risk of build-up of dust, thus removing any issues on reliability and maintenance requirements. The chassis height also facilitates easier and safer servicing of low level parts.

The impact crusher uses a high energy weight enhanced rotor to increase the crushing efficiency upon impact. This in turn retains the kinetic energy through impact with less shock load absorbed into the rotor. The result is less power loss and greater production per hour. Within the design considerable

thought has been made to the performance and fuel usage. With the weight enhanced rotor, the tph achieved is much greater resulting in the fraction of litre per ton processed being lower than many other systems.

With a non PLC control system that is extremely simple it does not require a computer, or a specialist to diagnose faults. The machine design including mechanical, hydraulic and the electric system is designed with ample power and excess capacity so that it can cope with almost all practical situations without a PLC. Having very little or no on-board electronics means less risk of a breakdown due to sensor, wiring or control issues. This makes the GIPO R131FDR very easy to maintain and fault find allowing any competent fitter to fix the machine.

A professional parts and service package

Geoff Caves - MD of AGG-PRO, commented, "The GIPO 131FDR Tracked Impact Crusher is a bespoke Swiss built machine with some unique features which suit all the requirements of Wordsworth Crushing. We have every confidence that it will provide excellent productivity and reliability that will be comprehensively backed by our professional parts and service package."

AGG-PRO has an accumulation of over thirty years of experience in the construction industry. This experience has been gained from design, manufacture, sales and servicing of all types of construction equipment, specializing in crushing and screening equipment.

Employing all their own fully trained service staff within an 18,000 sq. ft. workshop facility complete with all the necessary equipment to service, or if necessary manufacture new parts at their Tamworth site, AGG-PRO maintain full control of their staff and facilities allowing the company to operate at maximum efficiency, offering a total after sales service package.



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Volvo puts the H in Bathgate Silica Sand

A brand new Volvo L220H loading shovel has been delivered to Bathgate Silica Sand, Arclid, Cheshire and takes over as the prime mover at the Company's quarry extracting high quality silica sand for a variety of specialist markets.

The new 32 tonne loading shovel continues a trend at Bathgate Silica Sand, replacing a five year old L220F and joins a G series L220 and a Volvo L150G which was purchased just two years ago for the company's soil blending operation. Operator preference and a sound track record for first class after-market support were the main drivers in determining the choice of the latest arrival according to Bathgate's General Manager David Robinson. "The Volvo shovels are a firm favourite with our operators especially with the cab interiors for comfort, ease of operation and excellent visibility," he said. "Volvo has always provided a very good after-market support which is extremely important to our operation here at Bathgate and once again we've decided to invest in a full repair and maintenance agreement for the new L220H for complete peace of mind."

Launched at this year's Hillhead exhibition, the L220H features a 13 litre stage IV final engine developing 373hp in a relatively low rpm range of between 1300 and 1400 rpm. The machine also benefits from Volvo designed and manufactured driveline components including optishift with torque converter lock up and reverse by braking feature - all designed to offer considerable fuel savings each shift. Fuel savings are further enhanced by the Volvo Eco pedal encouraging the operator to run the machine at its optimum rpm in the engine's torque curve.

In order to produce around 2000 tonnes of material per day at Bathgate, the L220H has been fitted with a 6.1m³ straight lipped bucket, Volvo's optional ride control or boom suspension system together with Goodyear 29.5 x 25 TL3A



tyres. So configured the new arrival is capable of extracting from the face and carrying bucket loads of up to eleven tonnes on one way hauls of up to 400 metres to field hoppers, strategically placed in the quarry feeding a conveyor system.

At the same time Bathgate Silica Sand has taken delivery of a fourteen tonne Volvo EC140D which replaces a venerable EC140 which originally took up residence back in 2000. The machine will be deployed around the quarry and site for general maintenance cleaning gulleys, culverts and water courses.

 www.hub-4.com/directory/876



Sandvik Construction launches crushing chamber upgrade package

Sandvik Construction has launched Optiagg - a new way to secure more profitable cone crusher output with minimal investment. The Optiagg package includes computer modeling and analysis in addition to a redesigned mantle, a concave ring and all other required spare parts.

With Optiagg, Sandvik Construction offers a new dimension in operational support for its crusher models CH430, CH440 and CH660. The mantle has been completely redesigned for higher efficiency, but the real difference is in the computer modeling and analysis. It's a scientific approach that secures more of the most valuable fractions without costly trial and error.

Tailored improvements

Optiagg takes the guesswork out of optimizing crusher performance. There's a step-by-step process that includes analysis of the current conditions, modeling to identify the optimal configuration and setup, and validation of the outcome. The chamber setup can be fine-tuned according to the desired output and the specific demands of the application. Typically, customers want to gain more of a specific fraction while either reducing the level of fines or increasing the reduction ratio. Sandvik can give a clear prediction of the gains that can be expected.



The resulting improvements are predictable and consistent, enabling an accurate economic forecast for the crusher's output. In most cases, the investment will pay for itself within a short timeframe.

Jesper Persson, VP Crusher Spare & Wear Parts, Sandvik Construction says: "Optiagg is not just a new product - it's a completely new approach that enables us to deliver what the customer wants with greater certainty. We can promise predictably more truckloads of the most valuable fractions. The customers who tested Optiagg were amazed when they calculated their potential annual gains. If you have a Sandvik crusher, it's truly a no-brainer."

Additional savings

Optimizing output in this way can result in a number of further potential benefits, including reduced wear and tear on the mantle and concave ring, as well as possible energy savings.



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CMB International provides the CEMEX UK East Leake operation with the perfect solution

Owned and operated by CEMEX UK, East Leake started life as a green field site with the processing plant built and commissioned in January 2000. Located near Loughborough, Leicestershire the site produces a very good end product from a rather dirty glacial deposit, averaging a silt content of 22-25%. Currently the throughput of the plant is 150tph with a saleable product of approximately 90-100tph being produced, with the rest be sent to the silt lagoons.

Recently, Ravenstone based, quarry plant manufacturer, CMB International have successfully won an order to replace their 'end-of-life' primary crusher with a new CMB RS150 Cone Crusher.

Alan Smith - Quarry Manager, commented, "When the plant was originally built the crusher utilised was a refurbished Pegson Autosand 900 from the CEMEX UK - Shap operation where it had crushed granite. Although this machine dated back to 1982 we simply converted it to suit the requirements of the East Leake operation. This has provided us with many years of good service but recently had come to the end of its life, with a broken main frame and eccentrics causing issues."

Huge overall savings

Alan, continued, "When we went to look for a replacement we were faced with the fact that modern crushers have a bigger throw on them, which simply means you need a bigger motor and larger power requirements which consequently means expensive infrastructure changes. However after discussion with CMB International they came up with what has turned out to be the perfect solution."

Liam Holland - General Manager of CMB, commented, "After discussions with Alan we visited the site and after a full inspection we offered a bespoke solution which would allow us to fit a new crusher on the same structure and retain the same motor with no infrastructure changes required at all, whilst still maintaining the performance and capacity of the machine"

Alan continued, "It was a perfect solution for us, CMB built it in kit form so we didn't need a crane, didn't need to take the roof off, so the crusher was built 'in-situ' consequently we had massive overall savings on the installation."

Alan, continued, "With a variable deposit which includes quite a high proportion of clay we can when necessary adjust the settings on the cone to deal with this which is another benefit of the new machine. It's been a perfect replacement we couldn't have asked for more." concluded Alan.

Long term benefits

As an environmentally aware company CEMEX UK strictly monitor energy used and in this respect with crusher performance improved the new installation will provide long term benefits and has already proved to be an 'environmental winner.'

The CMB RS 150 Cone Crusher installed at East Leake is a modern cast steel all roller bearing cone crusher which features hydraulic adjustment which enables the operator to rapidly change the discharge setting, if necessary during the crusher operation. The machines hydraulics also incorporate a tramp metal release, automatic reset and an unblocking feature which will clear the crushing chamber in a matter of minutes.

Further information can be found at http://www.cmb.uk.com/cone_crushers.html



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Metso's new Nordberg C130 jaw crusher offers a 20% increase in cavity volume

Nordberg C130 can process more rock in the crushing process, thanks to the larger cavity volume delivering higher production in high-capacity primary crushing in demanding quarrying and mining applications.

The cavity volume of a jaw crusher has a big impact on the efficiency of the crusher. The Nordberg C130 jaw crusher, introduced by Metso, has a 21% larger cavity volume in comparison to previous models in this size class. The larger cavity volume means that more rock or ore is in the crushing process at one time. The increased volume combined with the extra large feed opening ensures high-capacity primary crushing in all demanding quarrying and mining applications.

The introduction of the Nordberg C130 jaw crusher continues the renewal of Metso's proven, mid-size and large jaw crushers. Prior to the launch of Nordberg C130, Metso launched the all-new Nordberg C120 and C150 jaw crushers.

The new C130 is a 40-tonne jaw crusher in terms of operating weight and features the famous pinned and bolted design for reliability, long life and easy service. Reliability, crushing efficiency in stationary and mobile applications, and uncompromising safety and ease of use have been the key parameters while designing this jaw novelty.

"Our C130 really stands out of the crowd with its bigger cavity volume. In fact, the cavity is larger in all three dimensions: deeper, wider and longer. Consequently, the new cavity can process over 20% more material increasing crushing capacity significantly, comments Ilkka Somero, Metso's Product Manager for jaw crushers."

Large feed opening saves blasting costs

The large, 1300 x 1000 mm (39" x 51") feed opening of the C130 jaw crusher is able to process even the coarsest feed and maintain a trouble-free material flow through the crusher. This results in savings in blasting costs and allows the processing of coarser feed at the primary stage.

"This new design combined with a 160 kW (200 hp) power range, a small nip angle and excellent kinematics ensures aggressive crushing along the whole length of the crusher cavity," Ilkka Somero adds.

Thanks to the compact design, older crusher models can be easily replaced with the C130. The pinned and bolted design also makes it possible to disassemble the C130 and transport it even to the deepest underground mines.

Safety is one of the key focus areas for Metso when designing a new crusher. The C130 features optional, easy-to-open composite flywheel guards that allow quick and safe access to all service points. The standard delivery includes lifting tools for jaw dies, cheek plates and a toggle plate, all contributing to operational safety.



Easy to customize with options

The Nordberg C130's operating speed is 220 rpm and the closed side setting between 100-250 mm (4"-10"). The operational weight is 40,100 kg (88,500 lbs), excluding options.

In addition to the composite guards, the new C130 can be customized to any application with options such as a wear-protected feed chute, an integrated motor bed with electric drive, a hydraulic setting adjustment, a rock breaker and a boom combination, and a IC1000 process automation package, just to mention a few.

Hardox Wearparts Centre - Rotherham

MTL and Hardox - the perfect partnership

MTL Group is one of the longest established Hardox Wearparts Centre in the UK and in 2015, celebrates 20 years in business. Throughout most of that time its partnership with SSAB has been a key driver in the development of products for markets such as defence, quarrying and recycling, where quality and durability are vital.

MTL manufactures parts from Hardox Wear Plate for customers such as Caterpillar, Sandvik and JCB and has grown to become a partner of choice for many major global OEMs.

Partnership

As a Hardox Wearparts Centre, the company works very much in partnership with SSAB, the producer of this exceptional wear plate steel - with MTL providing the expertise in processing Hardox to provide the finished component parts and deliver high levels of local customer service.

Today, MTL operates from a 300,000 sq. ft. modern manufacturing facility in Rotherham, South Yorkshire where it has its 'state of the art' laser, plasma and water jet processing machines, plus specialist brake presses, welding, fabrication and machining facilities.

It prides itself on the quality and accuracy of its products, plus the fast turnaround it offers their customers. From the outset, MTL decided to offer large size laser cutting facilities and operates the largest laser cutting machine in the UK. Its key strengths are the ability to manufacture very large components in one piece and the ability to manufacture smaller components in volume competitively.

This forward thinking approach gave MTL a significant advantage in the cost and time of producing products with the result that the business has experienced continual growth to today, where turnover is circa £48M.

Quarrying and Recycling

The booming recycling and quarrying sectors are a prime example of how the partnership between MTL and Hardox can deliver major benefits for customers.

As a Hardox Wearparts Centre, MTL uses Hardox in the manufacture of replacement wear parts such as shredder blades, tipper body liners, screens and hammers. In these applications, the strength and durability of Hardox combined with MTL's expertise and facilities has significantly improved product performance, throughput and productivity. The resulting benefits for customers can be significant in terms of production throughput and profitability.

Expertise

The end result may be simple but it takes extensive technical and manufacturing expertise to manufacture HARDOX wear resistant steel in the best possible way - with a perfect fit and a longer useful life. As a Hardox Wearparts Centre, customers can be confident that MTL delivers the highest standards of product quality and customer service.

"Everyone in the partnership benefits from our relationship with Hardox - our business, Hardox itself and most importantly, our customers," explains Jamie Cooper, Business Development Manager of MTL. "By combining the quality of Hardox Wear Plate steels with our own technology and knowledge, we have developed and continue to deliver the high quality, replacement parts our customers demand."

Fast Track parts

At any given time, MTL holds around 300 tonnes of Hardox Wearplate so it can immediately react to customer requirements. The company also operates a 'Fast Track' facility that enables it to manufacture and deliver replacements, often within days of receiving the customer order.



This Fast Track service is particularly beneficial for the recycling sector where it is essential that replacement parts are delivered quickly to avoid costly downtime. In several cases, customer machines have been back up and fully operational several weeks earlier than would have been possible than if they had used the traditional OE parts supply chain.



Reverse engineering

Using its extensive technical knowledge and expertise, MTL can often 'reverse engineer' wear components for customers, improving the material content and developing design changes to replacement components that extend the operational life of the part - often by around 30% + compared to the original.

This process reduces unplanned downtime and leads to greater productivity: a very significant gain for the end user when you consider a typical recycling shredder can lose up to £50K per day if not operational.

Increased throughput

A further benefit of 'reverse engineering' is MTL's ability to develop component design. These improvements enable customers' machines to achieve higher operational throughputs due to their greater processing capacity - again aiding productivity and profitability.

Laser and Water jet cutting

MTL's state of the art cutting facility includes the largest bevel laser machine in the UK plus a range of high definition plasma, water-jet and flame cutting machines. This enables MTL to produce large steel components as a single part.

For some components, the heat generated by laser cutting could alter the properties - and therefore performance - of the replacement wear part. In these instances, MTL uses its water-jet cutting facilities to ensure the excellent performance properties of Hardox are not impaired in any way.

The water jet cutting machinery enables MTL to process much higher grades of Hardox - up to 600 Brinell. The company's manufacturing expertise also enables it to machine ultra high hard - Hardox 600 and press Hardox 500 and 600 HB materials.

Marketing Support

All Hardox Wearparts Centres benefit from the significant resources within SSAB to grow and develop their replacement wear parts business. They have direct access to the most comprehensive replacement product programme, which includes literally thousands of wear part components for buckets, tippers, crushers, dozer's, shovels, shearers, balers, shredders, plus many more.

Wearparts Centres are also supported through exhibitions, technical literature plus sales and marketing initiatives.

Training

Hardox Wearparts Centres also benefit from high quality, practical training that can be transferred to customer issues in daily business life. Training is undertaken in Sweden at SSAB's advanced technology Oxelösund manufacturing centre and a range of courses are available, all designed to ensure Hardox Wearplate steel, its operational characteristics and benefits, to provide customers with the most effective solutions to their wear parts requirements.

These internationally attended training events also give HWP Centre staff the opportunity to share knowledge gained from a diverse application base of customers around the world and have proved to be incredibly successful and beneficial.

"From personal experience, the knowledge gained and input provided at these training events is incredibly valuable " said Jamie Cooper.

Guaranteed Quality

As a Hardox Wearparts Centre, the MTL group enjoys the benefit of being associated with the strong Hardox Wearplate brand. The Hardox name comes with the guarantee of excellent product quality, giving customers complete confidence in the continuity of product quality.

"The high level of technology used by SSAB in the production of Hardox Wearplate is known worldwide. Reputation is everything, so the strength of the Hardox brand and MTL Groups processing expertise definitely attracts new customers to the business," comments Jamie Cooper.

For further information contact: Jamie Cooper, Hardox Wearparts Centre Rotherham, MTL Group Limited, Grange Lane, Brinsworth, Rotherham, S60 5AE.

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Smiley Monroe's New Global Hub and Custom Chevy Investment

Northern Ireland and India based Smiley Monroe Ltd, global leader in the production of heavy duty conveyor belts and CNC cut rubber parts for the mobile crushing, screening and recycling sector, is investing in a growth project that will see it open a new 200,000 sq ft global distribution hub close to its head office and production facility in Lisburn in Q4 2014 and create 31 new jobs over the next two years.

This significant investment is being supported by Invest Northern Ireland, which has offered £300,000 of assistance, part funded by the European Regional Development Fund.

Driven by customer demand, particularly in the ever-evolving recycling and renewable energy sectors, Smiley Monroe is expanding its line of customised chevron conveyor belts. This new innovative setup will enable the company to offer an even wider range of hot vulcanised products by applying cleats, side rails and sidewalls to EP multiply, Ripstop and straight warp base belts - all specifically engineered to withstand oily, sharp and abrasive materials such as C&D waste, road planings, municipal solid waste and wood chip biomass.

The company is making the investment as it celebrates 35 years in business, as part of its strategy for building long-term sustainability.

Managing Director, Vaughan Monroe, said: "We are aiming to substantially increase turnover, broaden our customer base and boost export sales through developing new products and services and growing the company's manufacturing capability."

Speaking during a visit to the company, Alastair Hamilton, Chief Executive of Invest NI, said: "Smiley Monroe has a strong brand reputation and is a highly regarded quality manufacturer in the materials handling sector, which is hugely important to Northern Ireland's economy."



"Its focus on product innovation and on growing export sales has underpinned its growth over the last 35 years, and will sustain it into the future."

"The new jobs being created by the company will offer opportunities to young people and to the unemployed and make a valuable contribution to growing our manufacturing industry."

Smiley Monroe's products include energy-saving polymer King Rollers, flip-flow screen media and a newly expanded range of conveyor belt cleaners - locally produced and exported to over 40 countries globally - for use in sectors as diverse as quarrying, mining, cement works, fertiliser plants, coal handling and waste management.



www.hub-4.com/directory/5684

Co-creation as a means of delivering efficient plant design

Author: Peter Craven, Head of Marketing, CDE Global

CDE Silica sand washing plant at Tooperang near Adelaide, South Australia



CDE Wash Plant at GS Materials in North Carolina, USA



In recent years the issues of productivity and efficiency have risen to the top of the agenda in the global materials processing industry. There has been a shift in emphasis from one founded on the principal of 'more capacity' to one which seeks to ensure that every individual operation is extracting maximum value from the material being processed.

This presents a new challenge for most equipment manufacturers who will now have to go beyond their previously self-imposed boundaries and get closer to the end user to ensure that the equipment they provide will meet the productivity and efficiency requirements that are now driving investment decisions.

Every application has its own unique challenges and in order for equipment manufacturers to provide fit for purpose processing systems they need to ensure they are at the very centre of the discussion. This is especially true in the wet processing and classification market where understanding the specifics of the feed material is a critical factor in the delivery of a successful project.

The change in emphasis from 'capacity' to 'productivity' has sharpened the focus on every processing phase within the complete system as operators seek to identify where the inefficiencies lie and put a plan in place to address these. This increased focus can reveal an array of process issues that previously went unnoticed - unnecessary material spillage, inefficient separation systems which result in poor quality final products and good quality material being lost to the water treatment or waste management phase.

CDE Cherepovets M2500 and AquaCycle



Any processing plant including several different processing phases must be much more than a number of individual equipment items in sequence. In order to deliver on the productivity and efficiency requirements of the industry a robust plant design process is required which requires a considerable level of consultation between manufacturer and end-user. It is only by adopting this approach that a full understanding will exist of the requirements of the project.

This process should take account of a number of issues and ensure that the plant is configured to ensure delivery of the most efficient processing system. These include material testing and analysis, space restrictions, civils design, proximity to waste storage areas, transfer point technology, water management and maintenance access.

Our experience over the last two decades in the design and delivery of successful materials washing projects has been built on the theory of co-creation - a partnership between us and you, the end-user to understand your objectives, address the issues you are facing and ensure that the processing system is designed with the in-built flexibility to ensure that any future changes in your requirements can be accommodated with the least amount of disruption.

A successful materials washing plant is built on a detailed understanding of your project as something unique and the design and specification of the appropriate technologies to ensure your objectives are met. To try and achieve this with a limited range of standardised, mass produced equipment is not possible - and the success we have enjoyed in the materials washing arena over the last 20 years is testament to this.

By conducting extensive material testing and analysis in our own laboratory a full understanding of the nature of the feed material is gained. While testing will indicate whether the final product specifications desired by the end-user are able to be achieved it is the further detailed analysis of these results that will potentially reveal opportunities to maximise product yield from the feed material. It may be possible to look at production of additional sand specifications which will not only reduce waste volumes but provide an additional revenue stream. This will often require the introduction of more complex processing systems if a specialist sand can be produced - sports sands, filter sands, foundry sands for example. While this will require additional investment the return on investment argument is a compelling one given the potential to produce a product for one of these high value applications.

By conducting a process audit on existing sites we can focus in on the areas where specific actions are required in order to improve efficiencies. This will help us to identify what the important issues are to you in that specific situation and ensure that any new processing system is built to tackle these and deliver on your requirements for increased process efficiency, productivity and plant availability.

A key element of the co-creation process is the design workshops that we undertake. These workshops typically involve a number of representatives from the customer - operations personnel as well as senior management - as well as an extensive project team from CDE. This will include a senior Technical Engineer who will be involved to discuss plant specification in detail with you and ensure that there is clarity around the site infrastructure (civils design, water requirements, power requirements).

As well as dealing with these pre-sales elements our design workshops will also introduce you to the delivery processes we have in place to ensure project delivery goes to plan. This is an area which is often overlooked and the costs of poor delivery underestimated. Our washing centric ProMan system has been proven to deliver hundreds of materials washing projects successfully and the design workshop will involve meeting with the individual Project Manager who will take ultimate responsibility for the delivery of your project and act as a single point of contact until project completion. You will also be introduced to all of the other elements of our project delivery process and meet the team of people involved in your project - logistics, design, install & commissioning, post commissioning support, training.

In summary, mass produced and standardised equipment is designed around the principle of making a production facility efficient rather than delivering successful materials washing projects. The success we have enjoyed in the global washing sector is evidence that successful plant design and delivery involves a huge level of direct contact between us as equipment manufacturers and you as end users of the equipment. Each and every plant we build is co-created with our customers and this applies whether we're delivering a single item of equipment or a full turnkey processing system integrating many different processing phases. Our M2500 is the perfect example - almost 100 machines sold in the last 3 years and no two machines are the same.

It is this ability and our agility in regard to the plant design process that ensures we are in a position to help you deliver on your requirements for the most efficient, most productive processing system available.



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Hewitt Robins supply screens for Norton Bottoms upgrade

Operational for the last 30 years Norton Bottoms Quarry has been owned and operated by Breedon Aggregates since 2011 and is situated at Brills Hill, close to the village of Norton Disney in Lincolnshire.

Due to age and a desire to improve process efficiency the plant has recently been upgraded. As part of that upgrade, leading manufacturer of quarry process equipment, Measham based Hewitt Robins (HRI- A TATA Enterprise company) have supplied two screens which have been installed by Roltech Engineering of Newcastle-under-Lyme, Staffordshire.

The quarry which is situated alongside the River Trent supplies high quality sand and gravel and operates as the main feeder unit with the majority of the production of 4-20mm concrete and aggregate, 0-4 sand and 0-2 mortar going internally to Breedon's concrete plants in North and South Lincolnshire with the rest to local markets.

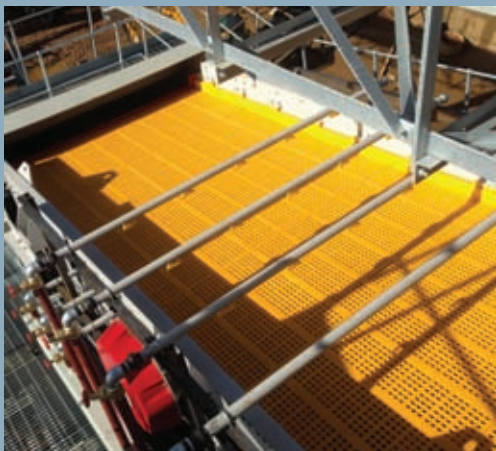
HRI supplied a 2.5m x 6.0m long inclined double deck washing screen with a separation of 20mm and 4mm through WS85 polyurethane modules supplied by Tema Isenmann. Rated at 350tph this has a water in-feed of 120 cubic

metres/hr and is fitted with spray bars which house a combination of Tema Isenmann standard mini fan sprays and mini flood sprays.

The second screen is a 1.8m x 4.8m long low angle dewatering screen fitted with Tema Isenmann WS85 polyurethane screen media with 0.5mm x 12mm slots. This screen is rated at 200tph and processes -4mm sand and achieves a final moisture content of 7-10%.

Carl Ashurst - Operations Manager, commented, With a 30 year old plant and obvious limitations we decided to completely replace the processing element and subsequently installed a main conveyor, a double deck washing screen, dewatering screen and removed the old barrel with all the material now processed in an MEP sand plant which allows us to pick and choose whether we make concrete sand or mortar sand. We selected HRI screens and purchased them direct, we have found no issues with them, they are just good reliable screens designed for the specific duty. The washing screen was designed to take 350tph so that includes raw material that comes up from the field as well as any recirculation that comes through the two crushers which gives us anything between 200-250tph of finished product." >

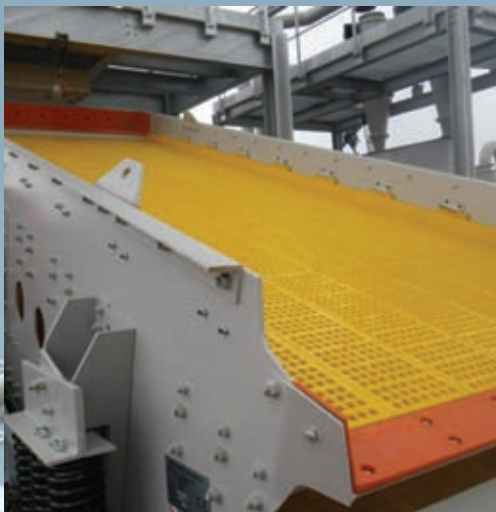




Installed in a transition period whilst operating the old plant, the new equipment was then interfaced in a 2½ week shut down completing the installation.

Carl, continued, "The plant is a significant asset for Breedon Aggregates, it was important to us that we had confidence in the HRI screens and the decision was made on their name, the quality of the product and their locality to the plant as we need a quick response to avoid any significant downtime. The plant upgrade which was designed and installed by Roltech has been a complete success."

Carl further commented, "In the past we only had the choice of making two grades of sand since this plant has started up we have only made one grade of sand because it's so efficient, and the gradings have been very consistent".



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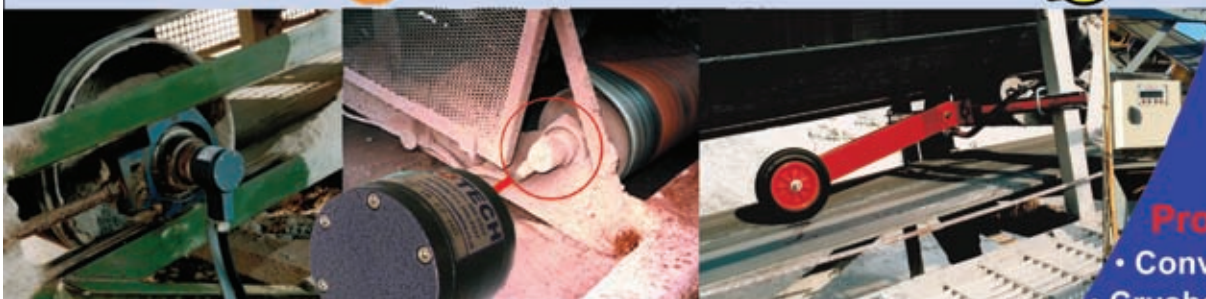
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Sandvik Construction helps with Thompson's business expansion

Thompsons Plant Hire has recently expanded its business into the quarrying sector. Playing a major role in this has been tracked cone and jaw crushers which have been supplied by Sandvik Construction Mobile Crushers and Screens.

Founded in 1994 by Kevin Thompson, Thompsons Plant Hire is a family owned business based in Flimby on the Cumbrian coast of England. Over the past 20 years the business has grown from hiring out just a couple of pieces of plant and a wagon, to now having over 100 vehicles servicing several blue chip companies throughout the North of England. Further expansion has seen the company now covering a wide area from the North of Scotland, through Lancashire and South Wales.

Its success initially allowed Thompsons Plant Hire to diversify into green waste recycling and biomass production, creating biofuel for the power industry. It was this diversification of its business that led the company to invest in Sandvik Mobiles crushing equipment for their latest project, a quarrying application based in Highcraig Quarry, Glasgow, Scotland. At the quarry Thompson's produce sub-base material on behalf of Lafarge Tarmac, the UK's leading sustainable building materials group, with the material used in this application being Whinstone, a hard rock that is dark in color and used extensively throughout Scotland.

To ensure they can crush, but also shape the material, Thompson's invested in the Sandvik Mobiles' QH331 Hydrocone crusher to work alongside a QJ341 jaw crusher - the flagship of the Sandvik jaw crusher range, and

consistently one of the world's best-selling tracked crushers. The QJ341 has been designed to be equally productive in both hard rock and recycling applications, and is therefore the ultimate all round workhorse providing maximum efficiency and productivity whilst minimizing cost of ownership.

The QJ341 features the 1200 x 750mm C12 single toggle jaw crusher on a heavy duty mainframe, making it able to withstand arduous working conditions. It also features a reversible crushing action to relieve blockages, making it the ideal choice to tackle the most difficult applications. The QJ341 is also a very efficient choice as the jaw can operate at up to 283rpm and features hard-wearing manganese jaw plates.

On Thompson's Whinstone application, the QJ341 is feeding the QH331 cone crusher. The QH331 is a compact, high quality machine designed to meet high product quality demands through the use of the renowned Sandvik CH430 Hydrocone crusher but on a tracked chassis. It is a very flexible machine offering a choice of six different crushing chambers and a variety of bush settings. Possessing sturdy construction, its power management, coupled with the market leading CH430 cone crusher, makes the QH331 ideal for aggregate production wherever it is needed. >





A key attribute of the QH331 is that its CH430 cone possesses a deeper crushing chamber than other comparable machines. The material is therefore in the chamber longer, optimising reduction and providing a superior product shape. The CH430 is also equipped with a hydroset CSS regulation system, which allows the operator to adjust the CSS (closed side setting) whilst crushing via the main control panel.

For Thompson's specific application the jaw on the QJ341 was set to 100mm (4") to feed the QH331 cone, and has been producing 0-40mm type one material at an overall approximate production capacity of 130 tons per hour. This, and other factors, has meant that Kevin Thompson, owner and founder of Thompsons Plant Hire, is very pleased with his first involvement with Sandvik; "For our first crushing project we chose from the Sandvik Mobiles range as we found the machines we wanted were readily available, and were able to be supplied quickly, which was very important to our project."

On the machines' overall performance, the QJ341 and QH331 have proven to be a wise choice. Kevin continues: "We needed mobile crushers that would be sturdy, reliable and highly productive. These deliver on all three. The QJ341 has a good maximum feed size which, when combined with the cone, produces a very accurate product. The flexibility of the machines has been very attractive to us, especially their ability to be used on many different applications - it makes it a great investment for us. For this project they're doing what we expected and are operating well. Our operators have found them easy to use, and user friendly, plus the machines communicate to one another, so we know the cone won't get overloaded."



It has not just been the performance of the Sandvik equipment that has impressed Kevin. "Our dealings with the service team have been excellent. We can't fault them on their knowledge of the machines, and they are able to identify potential issues before they arise. Overall, we're very pleased with the whole experience with Sandvik and we're so impressed by their range of machinery that we're possibly looking to upgrade our old reliable Extec E7 to a QE341 scalper!"



www.hub-4.com/directory/296

Azalt Eco2 Reduced Temperature Asphalt

The latest additions to Total's Ecosolutions range are Azalt ECO2 ready to use reduced temperature binders. The product is available in the full range of bitumen grades used in the UK and extends to the Total Styrelf PMB range in the form of Styrelf ECO2.

These binders enable asphalt producers to reduce mixing temperatures by as much as 40°C without any modifications to existing plant infrastructure. Work initially undertaken in France on trial sites at Blois and Rennes was then continued and trialed with clients in the UK. The trials proved the product offered comparable performance to conventional hot mixed asphalt in terms of ease of compaction, deformation resistance and water sensitivity testing. Work undertaken with Azalt ECO2 so far has also included levels of recycled asphalt (RA) comparable to control hot mix sections with equivalent performance demonstrated.

Reduced temperature asphalt manufacturing often requires the modification of conventional asphalt plants. This is typically to incorporate bitumen foaming requiring a capital investment in excess of £250K to install systems for metering and adding water then dealing with the steam evacuation. Rick Ashton Market Development Manager with Total Bitumen comments "With Azalt ECO2 bitumen all these complications are removed as the binder is pre blended with special additives in the UK for application through conventional mixing process simply at reduced temperature."

Asphalt mixed at lower temperature offers several advantages. The obvious one is reduced energy in the mixing process itself giving a saving in fuel and CO2 emissions. A temperature reduction of 40°C can give an energy saving of up to 35% at the asphalt plants dryer (dependent on the existing plants set up.) Overall emissions can be reduced by up to 47% with carbon dioxide emissions reduced by circa 30%.

But the immediate environmental benefits only add value to the engineering gains achieved with reduced temperature asphalt. Mixing



asphalt forty degrees cooler allows surfacing teams a greater opportunity to install more product for a given time on site. This characteristic can be beneficial when surfacing is undertaken under restricted hours. When a contractor has a shorter window of time for installation of the asphalt the time required for layers to cool sufficiently to allow trafficking is critical to the amount of work achievable in a shift.

In the case of Azalt ECO2 starting laying asphalt at 120°C rather than 160°C allows contractors to optimise their time on site, potentially reducing contract duration which is commercially astute and reduces disruption to the general public.

Reducing installation temperature also reduces visible steam emissions generated on site. This is particularly beneficial for traffic management during urban contra flow arrangements. Traffic often has to pass within meters of live asphalt surfacing works. Drivers passing works undertaken with Azalt ECO2 do not have to deal with reduced visibility through steam from the paving and rolling operations giving significant health and safety advantages over hot mix asphalt.

Azalt ECO2 is stored in bitumen tanks at normal penetration grade bitumen temperature. The product is not affected by mixing at conventional hot mix temperatures if required. This means producers can tailor mixing temperature to climatic conditions and haulage requirements accommodating sites with excessive manual laying and when delivering to more distant locations. This characteristic gives great operational flexibility to producers who may need to supply different customers with hot mix and reduced temperature materials throughout the working day.

The need for expensive plant modification, disruption to operational production scheduling and the need to pay royalties to additive suppliers are removed by the use of Azalt ECO2.

The take up of the product and the market share of reduced temperature asphalt will only increase as clients see the benefits of the technology and specifiers become aware of the potential these products offer. The use of reduced temperature asphalt in the USA now exceeds 25% of the asphalt volume there and is increasing due to the added benefits the technology brings. The future looks cool for asphalt!



 www.hub-4.com/directory/15325

Low Temperature Bitumen Solutions for the Asphalt Industry

At Shell, we've been working on low temperature bitumen solutions for the asphalt industry since 1995. That's almost 20 years of expertise in solutions designed to help lower your energy consumption and thereby your CO2 emissions during production.

"The ready-to-use solution for time and cost saving"

In order to minimise social and economic costs for road maintenance projects, asphalt laying operations are increasingly carried out during restricted working hours e.g. during the night, or under adverse weather conditions, bringing logistical difficulty and quality issues. Unforeseen delays may lead to longer transport or storage times on site that may impact the workability of the asphalt mixture. In addition, the heating of asphalt to high temperatures can lead to high energy costs and CO2 emissions. This prompted Shell Bitumen to develop Shell Bitumen LT (Low Temp) binders.

"Extended laying window and improved logistics"

An asphalt mixture with Shell Bitumen LT binders can be produced at conventional temperatures, but laid at lower temperatures than a conventional asphalt mixture. Using Shell Bitumen LT binders helps reduce the need to overheat the asphalt mixture, something sometimes done to achieve a longer time window for transportation and/or storage. Compared to conventional binders, Shell Bitumen LT Binders remain workable at lower laying temperatures. The resulting time flexibility can be useful in case of unforeseen delays, not unusual in the road construction process. Shell Bitumen LT binders can therefore help to reduce the risk of asphalt becoming unusable on site because it has become too cold, as well as to serve far-away road construction locations that require a longer transportation time. Laying the asphalt mixture at lower temperatures can also help reduce the time necessary for the mixture to cool down enough to enable the road to re-open to traffic. Shell Bitumen LT binders can therefore help enable traffic to circulate again quickly after completion of road works, so helping to minimise traffic disruption to the public.

"Reduced energy costs, consumption and reduced emissions"

As well as producing asphalt with Shell Bitumen LT binders at conventional temperatures as explained above, Shell Bitumen LT binders can alternatively be used to help lower the production temperature of asphalt compared to a conventional hot mixture. It's formulated to enable you to create a workable mix up to 30°C lower than those required for conventional binders for the production of hot mix asphalt, so helping reduce your heating costs. By way of illustration, reducing the mixing temperature by 30°C could potentially offer savings of up to 0.9ltrs of heating oil and up to 2.4kg of CO2 emissions, per tonne of asphalt.

"The ready-to-use solution for time and cost saving"

Shell Bitumen LT binders are supplied ready-to-use, as homogeneous, stable binders that meet specification when delivered to you, whilst offering additional advantages compared to conventional bitumen grades. Since Shell Bitumen LT binders are ready-to-use binders, they do not usually require investment in additional plant equipment, the expenditure of extra staff time or a major change in the production process to obtain the benefits that they are designed to offer. In addition, they meet your local specifications. Consequently, usage is made as easy as possible for you. They also offer the potential to reduce costs and emissions.

"No compromise in asphalt performance"

Despite laying at lower temperature, Shell Bitumen LT binders are designed to offer the same durability as a conventional hot mixture asphalt. Shell Bitumen LT binders can help reduce the ageing of the binder normally caused by heat during the conventional asphalt production process, due to the fact that Shell Bitumen LT binders are designed to reduce the asphalt manufacturing temperature. As a consequence, the final asphalt performance can be as good as, and possibly better than, the asphalt performance using the same unmodified bitumen at traditional temperature.

"Shell Bitumen LT binder applications"

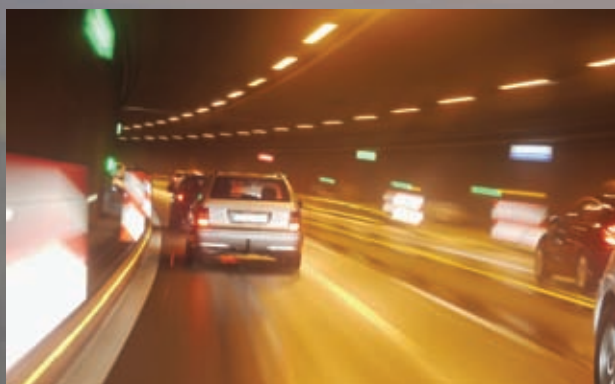
Shell Bitumen LT binders are designed to be used on the following type of pavements:

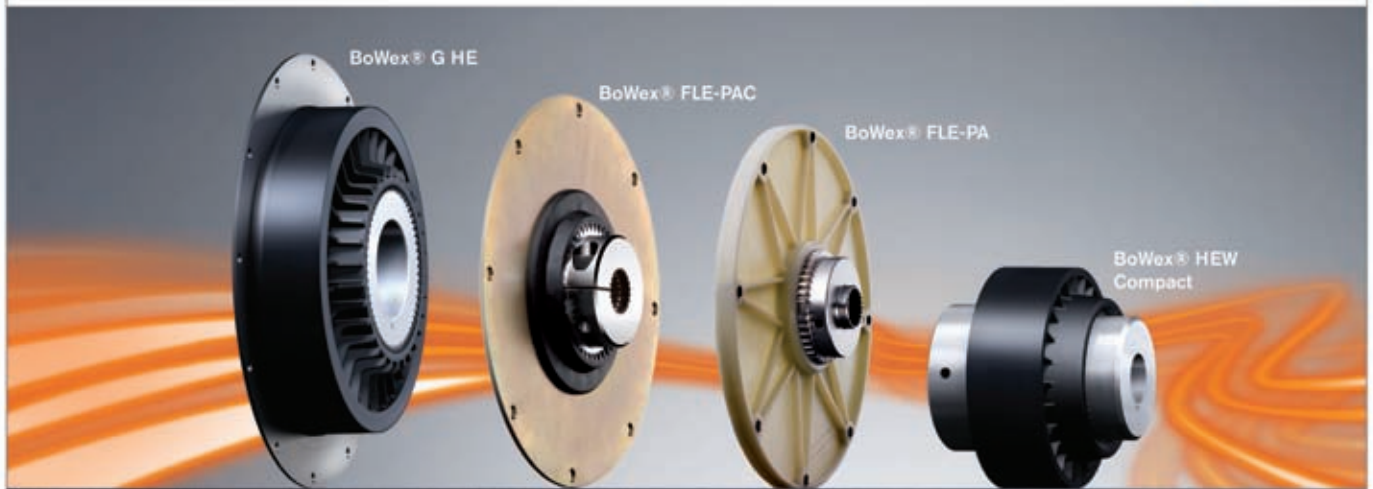
- Urban roads
- Highways
- Airports
- Tunnels
- Other highly trafficked areas
- Roads at height
- Roads paved at cool temperatures at night.

Shell Bitumen LT binders are ready-to-use binders designed to offer the following benefits, compared to other Shell bitumens without our Shell Low Temperature formula:

- Production or laying of asphalt at lower temperatures without compromising quality
- Helps to obtain better workability compared to a hot mixture asphalt produced with a conventional Shell bitumen laid at the same temperature
- Helps to re-open a road to traffic quickly after completion of road works, thereby assisting in minimising traffic disruption to the public
- Supplied as a product meeting your local specification
- Supplied ready-to-use, usually requiring no modification to the asphalt production process and no special investment in plant equipment
- Offers a longer time window for transportation and/or storage than conventional Shell Binders, if asphalt production takes place at conventional temperatures
- Helps to save energy, reduce CO2 emissions and reduce emissions and odours from hot asphalt during the asphalt manufacturing and laying process, if asphalt production takes place at lower temperatures instead of conventional temperatures
- Helps to reduce the thermal ageing of the binder normally caused by the heat generated during the conventional asphalt production process.







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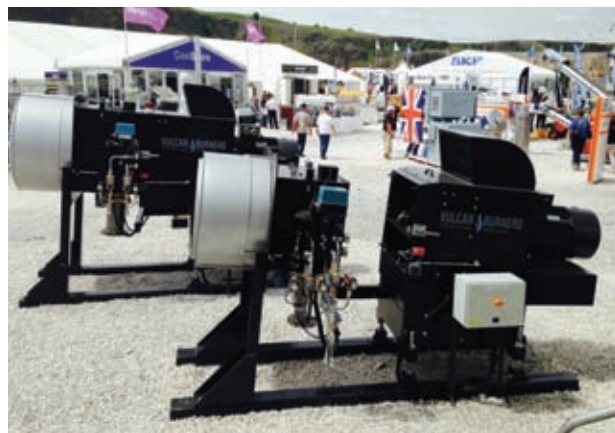
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operators in Europe and Asia. Major operators include Aggregate Industries, Cemex UK Materials and Eurovia Infrastructure. Monitoring shows average fuel savings of 20 per cent. Vulcan Burners are based on experience of Asphalt Burner Services Ltd Engineers in asphalt burners of over 40 years that has enabled the company to develop burners with a unique and highly effective dryer combustion to optimise asphalt recycling and reduce carbon emissions.

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www.hub-4.com/directory/11981



Matthew Bishop -
Asphalt Area Manager

BG Europa supply new hot storage system to Westleigh Asphalt Plant

Leading Asphalt and Concrete plant specialist BG Europa have recently supplied an Ullrich 200t S200/4 Hot Storage System to Westleigh Asphalt Plant which is based near Tiverton, Devon.

Owned and operated by Aggregate Industries UK Ltd (AI) the quarry was originally best positioned for the creation of the M5 with the asphalt plant installed in 1972. Originally designed as a direct load plant (with no storage system) it has supplied material over the years for the North Devon Link Road and continual work for the M5, currently being involved in the supply of material for the motorway (on nights) over a seven week period.

Currently managed by the AI Asphalt Area Manager - Matthew Bishop, it wasn't long after his arrival that he undertook a feasibility study to justify the inclusion of a hot storage system.

Matthew, commented, "Over the years demand has changed. In 1972 there was only a base material, a road base, base course and a surface (wearing) course with maybe half a dozen different mixes in total. Today every company wants to sell its best products and diversify into different products, offering customers a variety of solutions. Therefore there is an increasing demand for a variety of materials making hot storage essential. Sometimes direct loading onto trucks is not the most efficient approach. We needed the ability to load different materials out at the same time hence why we put together a proposal for £½ million to bolt on a hot storage system onto the side of a 42 year old BG Europa asphalt plant."

Supplied by the Ullrich agents - BG Europa of Wickhambrook the new system was installed while the plant was operational, with the civils completed by AI, the plant was closed off on one side and traffic redirected. Installation by the BG Europa team was completed on time, on schedule and in budget. The whole project was managed and scheduled on a daily basis by Matthew and overseen by the AI Project Manager John Richards.

The Ullrich 200t S200/4 Hot Storage System

The new hot storage system is essentially a four compartment silo arranged in a cluster (two x 47t compartments and two x 53t compartments) which allows the storage of hot asphalt in preparation for vehicle discharge to a single loading point. This provides the advantage of allowing the discharge of all four bins to one truck way with the retrofit silo mounted on load cells to allow accurate weighing of material into the vehicles.

The Ullrich S200/4 hot storage system installed at Westleigh offers 200 tons capacity at 1.8 t/m³ for a hot mix with a coefficient for friction of 27°, in stationary construction for connection to the existing high profile 4000kg batch plant, output 320tph.

Numerous features including:

- In transit weighing of skip and contents
- Automatic winch brake test function
- Skip elevator with automatic or manual operation.
- Skipway with foldable skip rails and electric winch to facilitate direct truck loading.
- Automatic skip spray system.
- Electrically heated silo cones.
- Remote controlled discharge gates suitable for hot rolled asphalt.
- Discharge gates electrically oil-bath heated and regulated by thermostat.
- Weighing system for four silos with four load cells and amplifiers.
- Failsafe discharge door closure with emergency backup system.
- 3 stage discharge door control to facilitate accurate and fast loading of small loads.

Massive benefits

Specifically designed for short term (overnight) storage the silos allow production of material in preparation for vehicle loading. Vehicle waiting time is therefore reduced and also potentially the number of vehicles required for a project (vehicles not queuing at the production site). Vehicles at Westleigh can now load in around 20-30 seconds whereas loading time before used to be around 10 minutes per load. It also releases haulage to do other work because the truck is not sat waiting to load.

Matthew, commented, "Essentially the hot storage facility increases your capacity, quite simply 10 lorries sat for 30 minutes equates to 300 minutes of inactivity which allows trucks to be sent out to a local stone tip and return in the time they would have been inactive. Therefore it increases the hauliers earning ability as they are not sat here waiting, so it's a massive change for them."

There has also been a huge reduction in energy use since the installation of hot storage with the average total energy consumption dropping by 10%. The percentage of rework aggregate back to stock (material heated and not used in the production of asphalt, but instead returned to stock) also shows a decrease of 8%, with RAP % achieving an increase of 7.3% on binders and bases, therefore showing a massive saving when compared to 2013.

Matthew, further commented, "The saving in bitumen by adding extra RAP has actually increased our profitability and environmental contribution by a significant amount. So now, we have the energy saving, and the bitumen saving through adding more RAP. When we are processing a run of material it is easier to control our temperatures on production so we



can ramp up the temperatures to add more RAP to the process. With the grouping of production, it allows more time for on-going maintenance, greasing checks etc. Prior to hot storage the plant would achieve a maximum of 1,000 tons but now it's capable of achieving around 1,400 tons in a day shift simply because the plant is running more effectively. We are no longer doing so many individual loads or clean outs, it's all more concentrated on production. Attention to planning the day before has been the key to the success of this system."

Flexibility

The new storage system has brought greater flexibility as the plant can now rationalise production rather than producing purely for each vehicle as it now produces longer runs of each material to

be held in the bin. This reduces the number of batch tower cleanouts where the plant has to empty its hot stone bins to produce a material with a different stone type.

Running the batching plant continuously reduces energy consumption, as before the plant had to stop if there were no trucks. They can now continue to produce and store the material in the bin ready for the trucks to arrive.

Matthew summarised, "We can rationalise production, produce longer runs of material and hold in the bin which in turn reduces the number of batch tower clean outs. We can also group production together, if I have 10mm and 20mm with different PSVs to mix and I have one load of each throughout the morning I would, in the old days have to clean out the whole plant when we swap from one to the other. This means any stone that is heated in the plant already would be sent back up to the stocking area to be put back through the system to reheat at some point and then we would have to run up new aggregate for the next. With the new system we have less cleanouts and as each has a fuel cost we are more efficient whilst satisfying customers at the same time! Hot storage completely changes how you do things, especially as CE marking now cancels out fly changing; hence hot storage is the way forward."



"Night work on the plant has also changed dramatically. In the past if

we have had a large tonnage booked we would not normally have accepted additional orders. However with hot storage we can bin up the additional order in addition to the night work commitment. The plant on night work does not require to run as long, as once the required tonnage is produced into the bins they can shut down, so reducing the environmental impact of the plant at nights on our neighbouring community."

"Overall it's been a huge success; the inclusion of hot storage allows greater continuity of mixing, reduced clean outs, increased volumes, increased flexibility and new collect trade (new business). We will see a return from the investment within 18 months and as the plant is being operated less there is a positive environmental effect."



www.hub-4.com/directory/114

Parker Plant continues to serve the Isle of Wight with a new Starmix 2000 Asphalt Plant supplied to Wight Building Materials

In November 2013 Wight Building Materials Ltd awarded the contract for its new asphalt plant to Parker Plant Ltd. Wight Building Materials Ltd is a Joint Venture between Eurovia and Aggregate Industries and the new plant is part of a capital investment exceeding £3.5million in the Blackwater Quarry at St Georges Down on the Isle of Wight.

The new Parker StarMix 2000 high level asphalt batch plant will meet the requirements of the 25 year Isle of Wight Highways PFI (Private Finance Initiative) and it will also be available to supply a variety of projects across the island. The Parker StarMix replaces a Parker Blackmix 1500 supplied in 1986 and recently decommissioned after approximately 1.2 million tonnes of production. The replacement plant offers high thermal efficiency, low energy consumption and reduced environmental emissions with the added reliability afforded by the latest technology.

The new plant was a phased installation and was installed and commissioned whilst the old Blackmix plant was still operational. This was a necessity for Wight Building Materials as this is the only asphalt plant on the island.

As with all new Parker equipment the StarMix plant was completely designed using the latest three-dimensional engineering technology. The new plant is a modular design allowing the larger sections of the plant to be shipped in during the night and delivered to site before 7 am to minimise local traffic disruption on the island. The StarMix plant started full production in early May 2014, mixing day and night from day one.



To ensure long life of the plant the dryer is made from type P265GH boiler plate with Hardox lifters, the complete top section of the bag filter along with the filter bag cages are made from stainless steel. All of the open walkways, handrails and stair treads are galvanised and the whole plant is located on 30mm thick galvanised blocks.

The StarMix 2000 is a 160 tonne/hr high level static asphalt mixing plant designed specifically to be fitted into a restricted site with the feed hoppers mounted at an elevated level on a bank and the dryer, bag filter, mixing tower and mixed material silos mounted on the quarry floor.

The plant consists of 8 x 11.5m³ feed hoppers complete with 100mm grids, low level indicators with a visual alarm above each bin and indication in the cabin. A canopy is fitted to three sides of the feed hoppers with a roof to minimise airborne dust generated when feeding the plant and for weather protection. Mounted under each feed hopper is a 500mm wide x 1800mm centres variable speed belt feeder with 20:1 turndown ratio. The feeders are fitted with starvation switches to indicate a no flow situation. The sand and the dust hoppers are equipped with vibrators and UHMW polyethylene liners to minimise sticking feed materials.



A 650mm wide horizontal collecting conveyor discharges on to a 650mm wide declined scalping screen feed conveyor. The 1m wide x 1.5m long vibrating scalping screen removes the plus 50mm material from the plant feed and the minus 50mm material is fed to the reversible dryer slinger conveyor. The slinger conveyor discharges the feed aggregates direct into the dryer. Alternatively when reversed it is used to calibrate the belt feeders or it can be used to provide a blended mix to trucks. The conveyors and screen are covered to minimise air borne dust and provide weather protection. Stairways and walkways are provided on both sides of the conveyors and the vibrating scalping screen for access and maintenance purposes.

The dryer is a 2.2m diameter x 8m long drum with nylon support and thrust rollers, minimising wear on the roller paths and reducing the noise levels. The dryer has friction drive with 4 x 15kw geared motors via soft starters. A 2m high fence with an electric interlock gate guards the dryer. The multi fuel burner is capable of burning gas oil, CFO and natural gas. The burner blower is variable speed to attain optimum air to fuel ratio and to minimise noise. An infrared pyrometer is located in the dryer discharge to monitor the temperature and automatically control the burner. The burner is equipped with a silencer for further noise attenuation.

The hot stone bucket elevator is 500mm wide x 26m centres and has twin strand chain. This lifts the hot aggregates to a 1.8m wide x 3.3m long 6 deck vibrating screen which is enclosed in a fully insulated housing. The screen separates the feed into six sizes plus rejects. The hot stone elevator has a local inching facility and is equipped with an inverter and safety interlocks for maintenance purposes. A screen by-pass chute is incorporated in the elevator discharge chute to transfer material direct into bin 1 of the hot stone bins if selected. The 36 tonne hot stone bins are split into 6 compartments and integral overflow chutes direct the overflow and rejects to a 5 tonne holding hopper. Each bin compartment has continuous level indication for display on the controls screen and a sampling chute for test purposes. >



The aggregate, bitumen and filler weigh hoppers are all loadcell mounted. The bitumen weigh hopper is electrically heated and insulated, with an agitator mounted on top for bitumen blending during production. The bitumen discharges via a spray bar across the paddle mixer.

The 2250 kg paddle mixer is driven by 2 x 22kw geared motors with a timing shaft and soft starters are used to reduce the starting current. Two sides of the paddle mixer are hinged for internal maintenance purposes. Lifting beams are fitted throughout the plant including over the elevator, the vibrating screen and the paddle mixer. An infrared pyrometer is mounted in the mixer discharge housing to monitor and record the discharge temperatures.



The mixer discharges into a horizontal 2250kg skip controlled by an inverter. The whole mixing tower is mounted over a 200 tonne mixed material facility which is loadcell mounted for automatic load out into trucks. The 200 tonne storage is split into 4 x 50 tonne silos. There is also an 8 tonne direct lorry loading hopper situated directly under the paddle mixer for small orders.

The TC340 reverse air cleaning bag filter dust collector has an air volume capacity of 72,590m³/hr, extracting air from the dryer and the nuisance dust points on the plant. A primary skimmer is used to separate the coarse dust from the dryer exhaust. The coarse dust is continually fed to the hot stone elevator via a screw conveyor. A 90kw backward inclined exhaust fan, controlled by an inverter to vary the air flow, extracts the air through the system discharging into a 30m high exhaust stack. The speed of the fan is varied according to a transducer monitoring the pressure at the dryer discharge end. Particulate emission levels of less than 20mg/m³ are guaranteed. Special safety features included in the bag filter are a cold air door which automatically activates if a pre-set temperature is exceeded and a fire door which isolates the filter if a pre-set temperature is detected, or if activated by an emergency stop.



A screw conveyor delivers the collected reclaimed dust from the bag filter to a vertical filler elevator which discharges into a buffer hopper. The buffer hopper stores hot filler and discharges into an inclined screw conveyor which feeds the plant mounted filler weigh hopper. The buffer hopper also incorporates an overflow chute to a 70 tonne reclaimed filler storage silo mounted at ground level. At the end of production the buffer hopper can discharge any stored filler back into the reclaimed silo, therefore allowing hot filler to be used upon starting the next scheduled production. At the base of the 70 tonne reclaimed silo an inclined screw conveyor feeds the vertical filler elevator. A purge system is fitted to the reclaimed filler silo, this includes three screw conveyors and a sealed purge transfer assembly featuring extending bellows and a local pendant operated controller. A 50 tonne imported filler silo is mounted directly above the reclaimed filler silo making a total of 120 tonnes filler storage.

There are 3 high thermal efficiency electrically heated bitumen storage tanks with a nominal capacity of 94.4 tonnes each. The bitumen tanks are compliant with current RBA recommendations. Each tank is fitted with a stainless steel overflow/vent, radar level indication and a control panel at the fill point with contents gauge and light indicators for safe to fill (green), high level warning (amber) and ultimate high level warning (red). One of the tanks is fitted with a motorised stirrer for agitating all types of modified bitumen.



The electrically heated bitumen pumps and piping between the bitumen tanks and the bitumen weigh hopper are configured to automatically provide from the computer system:

- recipe controlled bitumen supply from any tank to the weigh hopper
- recipe controlled bitumen blending from any tank to the weigh hopper
- bitumen tanker filling to any tank
- transfer of bitumen from tank to tank
- bitumen tank to bitumen tanker transfer
- bitumen tanker transfer direct to weigh hopper

The system has been designed so that the computer monitors the status of all tanks and valves. A sampling valve is also incorporated in the system to allow safe sampling during bitumen delivery to the plant.

The fuel tanks, one for CFO and the other for gas oil, consist of two 60,000 litres vertical self banded cylindrical tanks, complete with piping to the dryer burner.

An SMA fibre additive system is positioned at ground level consisting of a 28m³ silo and a spiral screw conveyor to a loadcell mounted weighing unit with transfer to the paddle mixer via a pneumatic conveying system.



A recycled asphalt pavement (RAP) feed system allows for the addition of up to 20% recycled material. The system consists of 2 x 12m³ steep angled RAP feed hoppers with 100mm grids. The hoppers are positioned adjacent to the high level cold aggregate feed hoppers. A three sided canopy and roof is positioned around the feed hoppers. Two 650mm wide x 4m centres variable speed belt feeders with 20:1 turndown ratio feed a 650mm wide collecting conveyor which discharges the RAP onto an inclined conveyor. This in turn transports the material to a vertical RAP elevator. A by-pass chute at the inclined conveyor discharge enables the RAP feeders to be calibrated, or the feeder hoppers to be emptied direct to a truck. A 300mm wide x 14m centres vertical elevator, mounted at the mixed material discharge level, transfers the RAP to the weigh feeder. The RAP feed conveyors and the RAP elevator are positioned at high level to facilitate site vehicle movement. The 650mm wide x 2.8m centres variable speed weigh feeder is supported on 4 loadcells and discharges the RAP into the paddle mixer. An extraction fan removes the steam created when the RAP is added to the mix from the mixer housing to the bag filter. A cut off door isolates the vent duct when the RAP is not being processed.

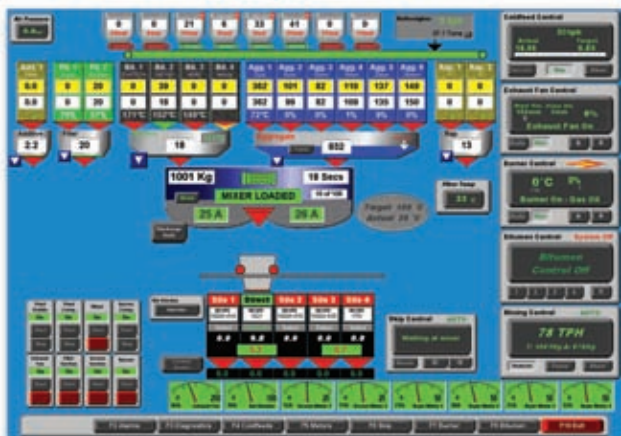
All of the wiring for the plant is positioned at 2.2m above ground level on ladder cable trays. The plant wiring is separated from the control wiring. There are no cables underground. The motor control panels are situated inside a switch room. The panels have manual motor start/stop buttons located on the outside for plant maintenance purposes only.

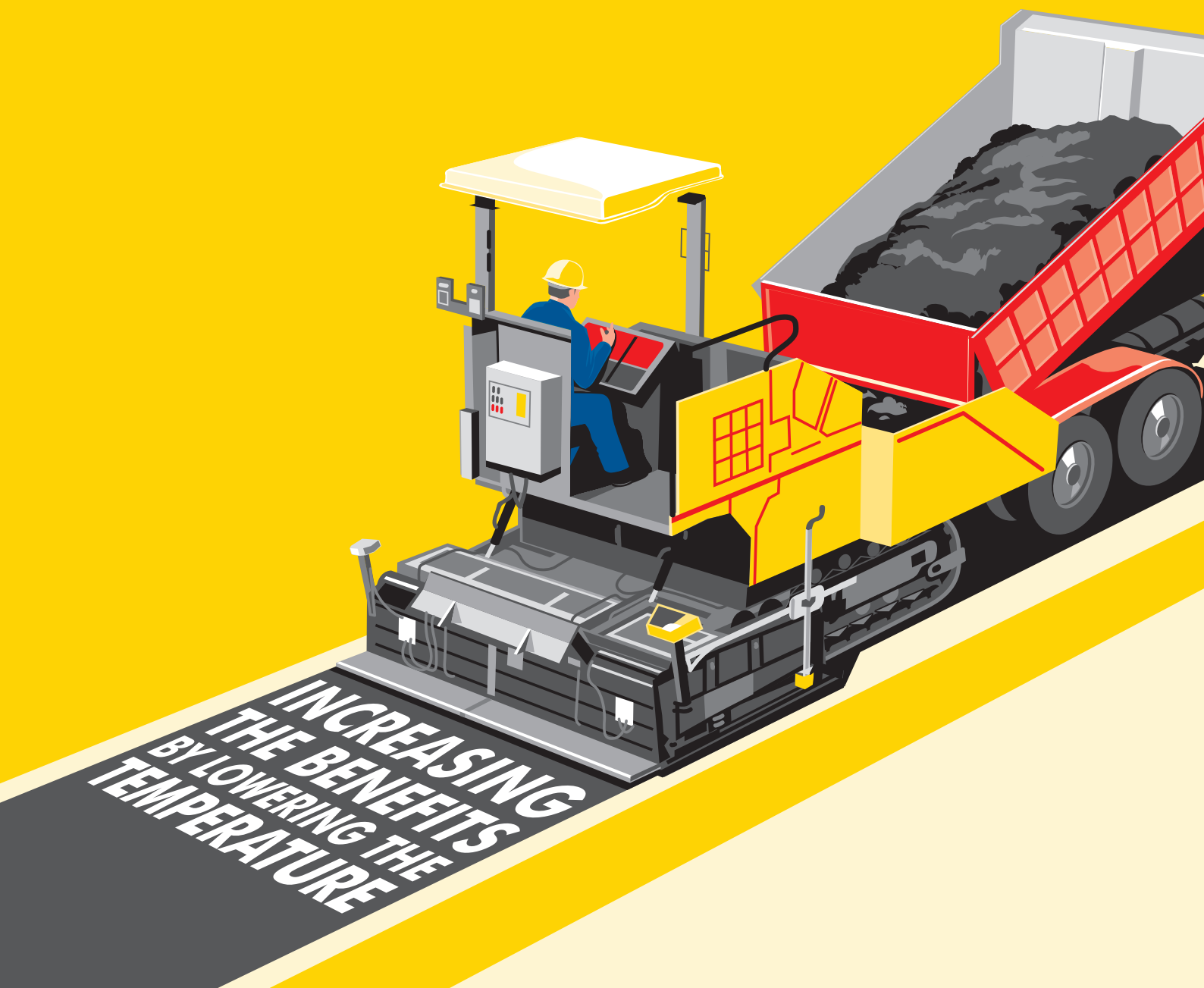
The control cabin is positioned above the switch room and houses a desk with two large computer screens complete with

keyboards. There are no further controls inside the cabin; all of the plant is controlled from these computers. There is limitless recipe storage. One of the PC screens shows the production data, whilst the other PC screen has a live animated mimic of the plant showing the running and tripped status of each unit plus the plant monitoring functions. The information on the two PC screens can be interchanged if required. The system incorporates a production scheduler, a plant monitor, plant diagnostics, alarm reporting and a recipe editor. The control system has automatic sequenced plant start-up, full plant control and automatic load-out to trucks from each of the mixed material silos. The controls also have special features for asphalt plant operation such as concurrent weighing with top-up, and over and under weigh checking. There is also an energy consumption monitor included to establish the kWh rating at any one time during the plant operation. The whole plant has the ability to be able to be operated from the control cabin, or alternatively from the weighbridge.

The plant was officially opened on 1st August 2014 by Mr Andrew Turner MP, the local Member of Parliament for the Isle of Wight. During his speech he said "It was important we reached this point because this plant is absolutely vital to the future success of the PFI". During the opening ceremony Mr Simon Willis the Chairman of Wight Building Materials Ltd added "Wight Building Materials now has a modern, low emission plant capable of providing quality high performance products to meet the needs of our customers".

The Parker team wishes to thank Wight Building Materials for this valued order and their assistance throughout the design, manufacture and installation process which contributed greatly to the success of the project.





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* Comparison with conventional binders for the production of hot mix asphalt

** German Asphalt Association; Guidelines for Warm mix asphalt. CO₂ values Emissionsfaktoren und Kohlenstoffgehalte" by German Federal Environmental Authority and Emission Trading Authority (Umweltbundesamt, Deutsche Emissionshandelsstelle), last updated in Nov 2006. Savings may vary depending on plant, fuel type and seasonality.

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Big success for Kiverco in the UAE

The customer

Diperk Power Solutions is a major supplier of Perkins power generation systems throughout the world and has recently become involved in projects in the UAE. Here, Diperk is working with local municipalities, in this case Fujairah Government, to provide them with total solutions to their need to handle waste produced domestically.

The challenge

Diperk was approached by MIMC (Middle East Management Consultants) who were working on behalf of the Fujairah Government to provide a self-contained and stand-alone solution to deal with growing volumes of domestic waste. This material, which is delivered in plastic sacks, contains organic waste, as well as valuable materials which can be recovered and sold. The lack of infrastructure and suitable equipment locally meant that everything needed to handle the material would have to be brought in from outside Dubai and erected on a purpose built site in the local area.

The solution

Kiverco was asked to design a plant to meet this unusual set of requirements. It would need to be capable of handling 25 tonnes per hour of material and providing clear separation between the organic content - which would be subjected to further processes on site and the other recyclable material such as plastic, cardboard and metal.

The final solution was to firstly shred the material, to open the plastic sacks and reduce material sizes. The heart of the installation is a KL 840 trommel, which splits the material into 3 different sizes, with the larger waste streams then being manually picked to recover recyclables. Magnets are installed at several points to recover metal and a baler makes short work of compressing and packing the recyclables for onward transportation.

Critical success factors included not only the excellence of the technical solution, but crucially, the ability to manufacture, deliver, install and commission the plant on time, and on site in +40C temperatures. Kiverco's entire team responded to the challenge throughout the entire project and the plant was built and commissioned on time as required by this demanding client.

Steven Bussey, Product Support Development Manager at Diperk Power Solutions, commented: "From the initial design and consultation stages Kiverco have been totally engaged in both understanding the specific design requirements and then building, delivering and installing a fully operational Municipal Waste Recycling Facility in one of the most extreme working environments in the Middle East.

The new plant is not only now dealing with a long standing waste disposal problem but it is also providing new job opportunities and employment for the local people. The client is now using this new plant as a flagship example and demonstrating to other Emirate Countries and neighbouring Municipalities the best environmental practices which has already resulted in a second order for an identical plant."

John Lines, Sales & Marketing Director at Kiverco added "Although we have built plants of this type before, the particular combination of circumstances here were such that our project planning was a critical success factor here and ultimately, the key to our success. We were confident of our abilities and I am pleased to say that our exemplary performance on this occasion has been recognised by the award of an order for a 2nd, identical plant, at another location for the same customer".



JEST Waste Recycler separates material by density

Waste Recycling Technologies can now offer a new concept for the UK market to remove contaminants from materials. The Jest Waste Recycler unit is an ideal solution to clean up trommel fines, recycled aggregates etc.



JEST WASTE RECYCLER, which is patented worldwide by TORSAN S.L. for the separation of waste materials according to their densities. JEST WASTE RECYCLER is the only machine that separates solid waste materials by means of screening, air and water in one compact machine.

The principal application of the JEST WASTE RECYCLER SYSTEM is the recovery of solid materials from C&D Waste, Glass Waste, Wood Waste and Compost Waste.

The JEST system separates, cleans and classifies the material resulting from demolition and solid waste materials of all kinds, separating by material type, automatically regulated.

Any of the JEST models will recycle the material by separating and cleaning the stones, concrete and sand from the lighter materials (wood, plastic, paper, cardboard, etc.). For example: Wood Waste JEST separates the wood from other materials like stone, rubber, fines, metal and plastic. Glass Waste JEST separates the glass from paper, plastic, fines, hard plastic etc. Compost Waste JEST cleans the Compost of plastic, stones, rubber, metal etc.

The recycled aggregates and fines can be used for building, public works and road base; concrete, gravel and dry aggregate can be used for new concrete. The recycled wood can be used for new wood works, biomass, pallets and more. The recycled glass is used to create new recycled glass products and cleaned Compost can be sold as anew high-quality compost.

JEST is the only patented system of solid waste recycling that sorts it all by itself; by screening, air separation and floating system.



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A New Neuenhauser Star Screen for Town & Country Skips

Edinburgh based firm, Town and Country Skips have recently invested in a new Neuenhauser star screen.



The screen supplied by UK dealer, Riverside Machinery Ltd, shall be put to work screening shredded waste from their existing slow speed shredder.

The star screen which is fitted with a waste star will remove the -25mm organics fraction leaving an oversize which can then be used for RDF production.

The waste stars fitted to the machine are designed to prevent wrapping of material around the star and shafts which is commonplace with other manufacturers.

Due to the aggressive nature of the stars, a very high throughput is achieved along with excellent separation.

In addition the footprint of the star screen is very small compared to a trommel for example, which would require a much larger area to achieve the same results.

John O'Neill, Riverside Machinery Ltd, comments: "we are delighted to be working with the team at Town and Country Skips and are confident the machine will have a great impact on their business"

If you would like to hear how a Neuenhauser star screen or any of our other great products could benefit your business, please do not hesitate to contact us on +44 800 689 9024 or sales@riverside-machinery.com, or the website www.riverside-machinery.com



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Eurodeck weighbridges play vital role in biomass transportation at King George Dock in Hull

Three surface mount Eurodeck weighbridges installed by Weightron Bilanciai are playing a small yet crucial role in the transportation of biomass to Drax Power Station in North Yorkshire*. The 18 metre, 50 tonne capacity weighbridges have been installed at King George Dock, at the Port of Hull as part of a £100m investment in biomass handling facilities at the Humber Ports, owned and managed by Associated British Ports (ABP).

The weighbridges are used to weigh vehicles transporting the biomass from ships unloaded at the quayside to the new biomass bulk handling facility within the port. Designed and built by Hull-based Spencer Engineering, this facility incorporates a 3000 m3 storage silo, conveyor system and high-speed rail loading system, capable of loading up to 30 supersize biomass rail wagons in just 45 minutes.

The Eurodeck weighbridges are fitted with Weightron's CPD digital load cells, which have established an industry leading reputation for long-term reliability and precision. The weighing process is controlled via the company's innovative DD2050 touch screen driver terminals, installed with the Weightron's powerful Winweigh weighbridge integration software.

The DD2050 terminals, which also incorporate intercoms, provide a simple, yet comprehensive touchscreen interface that guides drivers through the weighing process. This optimises vehicle throughput and weight data collection/management. Satellite D410 weight terminals are located in the site office for local weight reading. The Weightron system also incorporates incoming vehicle card readers, card swallowers, traffic lights and control barriers. Vehicle position sensors at each end of the weighbridges ensure correct vehicle positioning prior to weighing.

Two of the weighbridges operate in one direction only with single DD2050 terminals, whilst the third has DD2050 driver terminals and controls at both ends, allowing it to be used in

either direction. This third weighbridge has been installed adjacent to one of storage sheds and provides a 'safety net' back-up for use under extraordinary operational conditions.

Weightron have extensive experience in supplying weighbridge systems to the biomass and energy-from-waste industries. A key benefit for their customers is that the company designs and manufactures all the key components, instrumentation and software within the measuring chain, thereby ensuring optimised system reliability and performance. The Winweigh software manages the weighbridge operation and peripheral equipment to streamline the weighing process, whilst providing seamless integration with the external ABP management system.

Once the conversion of three of Drax Power Station's generating units to biomass is complete, the vehicle throughput at this site is expected to be the highest for any weighbridge installation in the UK.

Paul Holland, ABP Head of Operations Hull & Goole, is pleased with the operation of the weighbridges: "Accurate and reliable weighing is an essential part of the biomass handling facility at Hull docks. The weighbridge systems ensure efficient vehicle flow and provide essential weight data. It is important to ensure ships can be off-loaded as quickly as possible and that biomass is transported efficiently to the storage discharge silo for onward transportation to Drax Power Station."

*Drax is set to become the UK's largest single renewable electricity generator through the operation of the new biomass facilities. The biomass conversion will ultimately see three of the six generating units at the power station converted to burn sustainable biomass in place of coal. Each unit has the capacity to burn around 2.3 million tonnes of biomass per annum. The first unit has been running successfully on sustainable biomass since the spring of 2013. Associated British Ports have signed a 15-year contract with Drax Power Limited to handle biomass shipments destined for the Selby-based power station.



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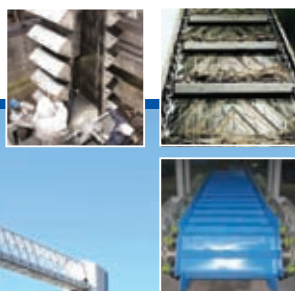


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Leading recycling specialist EMS adds high-efficiency shredder to innovative

EMS Limited, one of the world's leaders in the design of specialist, large-scale recycling plant equipment, has unveiled its newest, innovative addition to its product portfolio - a high-speed, high-efficiency industrial shredder capable of handling a variety of solid waste recycling and shredding applications which has been designed to deliver maximum output and performance.

The UK-based company which designs, supplies and installs turnkey recycling solutions to public and private sector customers in the UK, Ireland, Europe, Africa and further afield, said users of its flexible new Shredder model SRS5000 CT would instantly benefit from its self-cleaning twin shafts, a large capacity chamber, central lubrication and tilting hopper which can be operated by radio remote control under extreme conditions.

The shredder, which measures 7.9 metres in length, 2.5 metres in width and with a height of 3.2 metres, can process waste material at an impressive rate of up to 50 tonnes per hour.

Weighing in at around 30 tonnes, the track-driven shredder features a low-level feed height, an engine management system and an adjustable breaker bar to size material output.

"As a company which puts innovation, cost-effectiveness, durability and customer service first, EMS has invested heavily in designing and developing a quality shredder which is highly-efficient in delivering results across a range of uses," EMS Managing Director, Harry McCourt, said.

The SRS5000 is manufactured and assembled to order by a team of experienced specialists at the company's headquarters in Northern Ireland and is then shipped and installed for use by waste management companies, materials recovery facilities, local authorities and single site operators around the world.

Harry McCourt added: "EMS is proud of its reputation delivering innovative, bespoke, high-efficiency and low-maintenance waste and recycling products and we are delighted to add the SRS5000 to a suite of products which are already delivering outstanding results in their field.

Directly installed to precise requirements and measurements, EMS is a full-service company and stands over the quality performance with which we deliver and we are confident that the SRS5000 will revolutionise the waste management processes for customers with the biggest who set their results targets high."

The eight-year-old company was set up in 2006 by materials handling expert Harry McCourt, who, with almost 40 years' experience in the sector, has transformed the company into one of the most successful, innovative players in the global recycling equipment sector.

For more information, visit www.emswasterecycle.com, email: sales@emswasterecycle.com or phone +44 (0) 28 8778 9535.



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Speed and efficiency from the UK's #1 Attachment Supplier



L-R: Sean Heron MD of Worsley Plant shakes hands with Paul Johnson MD of Bradley Demolition

The HUB recently attended the Worsley Plant Demo days held at Prescot, near Liverpool to experience the huge range of products that Worsley Plant now offer.

Worsley Plant is one of the UK's leading providers of materials processing equipment, including wheel loader and excavator-mounted screening, crushing bucket attachments, and demolition and sorting grabs, for sale or hire throughout the UK. They are a major supplier to the farming, landscaping, waste management, construction and demolition industries.

The demonstrations showcased a range of products from some of their leading suppliers; MB Crusher, Lehnhoff, Remu and Rotar.

These included:

- Rotar's range of grabs, pulverisers and shears ideal for all your demolition projects.
- The Lehnhoff range of fully automatic quick coupler systems allowing you to change your attachments in seconds from the comfort of your cab.
- Screening and Crushing Buckets from MB and Remu allowing you to recycle materials directly on site.

The models that were demonstrated included:

- Rotar RG 22 Grab
- Rotar RDP 42 Pulveriser

- MB Dig A Crusher BF 90 Crushing Bucket
- MB Dig A Crusher BF 120 Crushing Bucket
- Remu 4160 HD Mix Screening Bucket
- Mag Belt

These products were not in an ordinary demonstration environment but actually employed by Bradley Demolition on the site of Prysmian Cables that the company had recently demolished. To say that we saw all these products perform faultlessly was an understatement and we were very impressed by the smoothness and speed of the attachment changeover with the Lehnhoff coupler.

Star guest of the day was the MD of Bradley Demolition, Paul Johnson who is also the star of the History Channel - 'Seeking Salvage' which features Ribble Reclamation that Paul also owns and operates.

Following a previous demonstration Paul has already purchased a Rotar RDP 42, a RDP25 and a Rotar RG 37, RG 12, RSG 1000 and RSG 700 grabs and complimented everything with the inclusion of a Lehnhoff Variolock 250.

There was also a static display which complimented the demonstrations which included:

- Rotar RSS 30 Scrap Shear
- MB Dig A Crusher 120
- Rotar RG 48 Grab
- REMU 3160 Screening Bucket
- Rotar RG 9 Grab
- Rotar RDP 25 Pulveriser
- Lehnhoff display showing how Variolock Quickcoupler works
- Remu 3150 Screening Bucket

Held over two days the demo days were well attended by customers from all regions of the UK who came from different relevant industries which included Wessex from Portsmouth, DSM from Birmingham, and a wide range of customers from the North of England.

The whole event firmly showcased Worsley Plant's growing range of equipment with the dynamic and action packed demonstrations enhancing their reputation giving everyone an opportunity to meet the Worsley team of sales and service engineers, suppliers and sales managers.





Action packed on-site demonstrations

With huge stacks of demolished concrete the very impressive Rotar RDP 42 Pulverisor on Bradley's Doosan 480 machine worked at rapid speed and its powerful force make light work of the heavy concrete. A lot of interest was generated by the Lehnhoff Variolock Fully Automatic Quick coupler which swapped between hydraulic breaker and rotating grab in 40 seconds making the whole operation so much more smoother and efficient.

Paul Johnson - MD of Bradley Demolition, who kindly allowed Worsley Plant the use of their premises, commented, "We recently employed the Variolock on a project at a local vicarage. Traditionally a project of this nature takes 3 weeks to complete, but with Lehnhoff it took only 2 weeks."

Although the Lehnhoff Variolock Fully Automatic Quick coupler and the Rotar equipment were the two main attractions the Remu 4160 Screening Bucket was outstanding doing a very fast job of producing MOT type 1 material from crushed concrete. It impressed by very quick and easy to work. Everything was rounded off nicely with the full benefits of the MB Crushing Buckets clear to see.

All in all a fabulous demonstration of tough, dependable workday tools that do 'what they say on the tin.'



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YouTube

DISAB UK's BagVac proves its value to SITA UK

SITA UK's energy-from-waste plant in Huddersfield improves its bi-annual maintenance efficiency with a BagVac.

SITA UK has recently realised the benefits of using a DISAB BagVac to remove fly ash residue from the hoppers, and carry out the post outage clean, of the EfW plant in Huddersfield, saving time and money on its six monthly maintenance programme.

SITA UK has a 25-year contract with Kirklees Metropolitan Council, one of the largest unitary authorities in the UK covering Huddersfield, Batley and Dewsbury, which began in 1998 aiming to achieve a minimum 60 per cent diversion from landfill.

As part of the contract, SITA UK took over five household waste recycling centres and an old incinerator and transfer station at Vine Street near the centre of Huddersfield. In 2000 this was transformed into an EfW or energy-from-waste facility with an attached materials recycling facility, processing 136,000 tonnes of waste each year and generating approximately 10 MW of electricity, enough to supply the annual electricity needs of around 15,000 homes.

As part of SITA UK's meeting the Environmental Agency's standards and routine inspections, twice a year the EfW plant is closed down for major maintenance, part of which is removing around 2-3 tonnes of fly ash that inevitably builds up as a result of the incineration process and the maintenance work carried out on various areas of the plant.

Previously this was dealt with both manually and with small industrial vacuum equipment, but this year the site's operations manager Mark Ryan decided to look at a DISAB BagVac. So DISAB UK's Dave Mills came and demonstrated the BagVac's capabilities, and advised that it would offer a much more efficient, safer and effective solution to removing fly ash during the outage.

Problem solved

Impressed with what he saw the BagVac do on site, Mark hired one of the BagVacs for the bi-annual outage, as he explains, "Typically the fly ash build up would have to be dug out manually and residual dust in the boiler house swept down on each level starting at the top, until it was in a position to be



removed manually from the lower surfaces and ground floor levels. I was hoping the BagVac would render this unnecessary, enable my team to become more efficient at removing all the fly ash, and do so in a safer manner.

"Hiring the BagVac for a month enabled my team to remove two to three tonnes of fly ash and general dust build up from around the EfW plant well within the timing of the maintenance outage we'd planned. It was much faster, and more time was spent cleaning than emptying things or moving equipment around!"

Good service, advice, training and support

Mark continued, "DISAB UK gave a god service from start to finish. Dave Mills had shown us what the BagVac could do, and it was impressive. He gave us good advice and when the hire unit came along, he trained up my operatives as well, so that we could all be sure we knew how to get the best out of the BagVac. >



Easy, more flexible and safer to use

Mark continues, "Our EfW operatives all found the BagVac very easy to use, and collected and removed significantly more dust in far less time than usual, by comparison to the manual - brooms, brushes and barrows - techniques, and to the smaller industrial vacuum equipment we'd normally use." The BagVac's large capacity bag means more time is spent cleaning than emptying, a regular issue for the smaller equipment.

The BagVac also comes with a 60' flexible suction hose, extension pipes and cleaning nozzles, and when combined with its massive suction power makes all sorts of nooks and crannies around complex plant like an EfW a lot easier to access and remove. Whether it's overhead or down in hoppers, accessing and removing every scrap of fly ash/dust becomes a relatively simple and more importantly faster job to do in complete safety.

Equally relevant for those doing the tasks, the entire vacuum process from cleaning head to bag is enclosed, minimising the risk of creating airborne dust using brushes and brooms, and that of dust exposure for the operatives at the sharp end.

Where is Sita going from here?

Mark's now looking at the cost-effectiveness of purchasing a BagVac. "It would give us a major 24/7 cleaning tool, and we'd be able to use it for the regular housekeeping programmes. Moving it around with a forklift would give us the flexibility to deal with the transfer station as well." The possibility is for other Sita sites such as the transfer station & MRF next door will also be a consideration.

"We'll see how the figures look, but the BagVac's shown us all sorts of possible opportunities, and it's a big step forwards for the way we do things in terms of meeting the Environmental Agency's requirements."



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Working Safely Together: Site Segregation and Operator Awareness

It is often easy to slip into the habit of managing risk by what hasn't happened yet, not by what may happen. In many Materials Handling Equipment (MHE) and Mobile Plant Operator roles, individuals are required to complete the same or similar tasks on a continual basis. This constant repetition of tasks can create complacency - which, in turn, can lead to accidents - if the relevant safety processes are not in place.

In an ideal world, the safest solution is to segregate equipment and pedestrians wherever possible. However, eliminating the risk completely is not always practicable. In this instance we must reduce it, putting safety measures in place to allow pedestrians and materials handling / mobile plant equipment to work on the same site, safely and efficiently.

Ensuring that the following points have been considered will provide a good start:

- Risk assessments
- Procedures and processes (Safe Systems of Work)
- Pedestrian and equipment segregation, where practicable
- Operator training
- Manager/supervisor training
- Staff engagement
- Support from the top
- Don't make it a 'one off' project!

These elements provide a good foundation from which to work but it is also important to think about the hazards specific to your operational environment. Mentor offer 10 practical tips for reducing the risk:

1. Planning - Think about whether it's possible to re-schedule or re-route journeys on site so that they don't coincide with MHE/mobile plant operations. Perhaps product can be brought to a safe area or activities carried out during break or maintenance times. If not, could an escort from a Banksman/Marshall help to reduce the risk?

2. Zonal marking - MHE/mobile plant and pedestrians should be separated as much as practicably possible. Define and clearly mark pedestrian routes and crossings and, if it's feasible, designate areas which are 'authorised personnel only' or 'pedestrian only'.

3. Speed/directional restrictions - Putting speed limits in place can significantly reduce the risk of collisions. Could a one-way system also help to facilitate the flow of traffic on site?

4. Restricted space - Where there are multiple equipment types operating in different ways in the same restricted space, good all round vision is crucial. All staff should be made aware of the correct observational techniques and, to assist, vehicles can be fitted with cameras/mirrors/radar/detection equipment - but don't forget to check regularly that they are in good working condition.

5. Visibility - It is essential that both drivers and pedestrians are encouraged to operate with caution and wear relevant PPE. If attachments are used, take care when fitting these or any visual aids in the machine cab to ensure their positioning doesn't block the operator's view. Due to their shape and size, attachments such as double block grabs or personnel cages can significantly reduce visibility. In quarries, where smaller vehicles like Land Rovers are used to get around, aids to visibility such as flags, beacons or livery - alongside relevant safety procedures - will help ensure that they can be seen from high in a machine cab.

6. Lighting - In enclosed spaces such as waste transfer stations, make sure lighting is not overlooked. Extra lights can be fitted to the equipment itself and in any areas where pedestrians operate, so that they can be easily seen.

7. Traffic routes/site layout - In environments such as block plant yards, which serve as a storage area as well as a transportation area, stock levels can define a site's roadways. With the dynamics of the yard susceptible to rapid change dependant on customer demands, it is important that the sites traffic routes are well managed and communicated to everyone operating in the area.

8. Information for visitors - Be sure to make visitors (particularly those who aren't used to the working environment) aware of safe routes around site and safety procedures for working in close proximity to MHE/mobile plant. This also applies to contractors and maintenance personnel.

9. Deliveries and collections - As designated roadways and pick up points are sometimes subject to change, it's always best to check that drivers have the latest details. It should also be communicated - verbally and/or via the appropriate signage - that they should only exit their cabs when it is safe to do so.

10. Guidance for foreign employees - With a considerable number of MHE/mobile plant operators with English as their second language, take care to ensure that they are made aware of the risks and are able to understand the safety procedures in place on site. Consider this during training and when introducing any new processes and signage.

With the relevant safety processes and procedures in place, businesses can significantly reduce the risk of accidents and meet their responsibilities for safety, whilst maintaining their productivity and reputation. For further guidance on site segregation and awareness, please call Mentor on 01246 555222.





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Tamar Organics Takes Delivery of Two More Doppstadt Machines



Tamar Organics has purchased a Doppstadt DW 3060K Bio Power shredder and a Doppstadt SM 620K Trommel from main distributor Blue Machinery (London) Ltd. These new highly productive mobile machines join two other Doppstadts already in the Tamar fleet, both of which have given sterling service over the years.

Tamar Organics - a wholly-owned subsidiary of Tamar Energy, a leading specialist in the production of renewable energy from anaerobic digestion plants - manages and operates in-vessel (IVC) and open windrow (OWC) composting services to the most stringent quality standards, producing high quality, nutrient rich and peat-free bio-fertiliser. Tamar Organics' Divisional Manager Andy Sibley said "The DW 3060K will work between two sites processing in the region of 50,000 tonnes of green waste a year while the SM 620K will be based at our Tempsford facility, screening around 35,000 tpa of green waste". He continues "These machines have impressed us with their low running costs and reliability and Blue Machinery's parts and service back-up is excellent, knowledgeable and timely". Matt Scott, Blue Machinery's Area Sales Manager said "Tamar undertook a detailed analysis of what is currently available on the market and the Doppstadt machines proved to be the best solution for their requirements"

The crawler-mounted Doppstadt DW 3060K Bio Power heavy-duty shredder is capable of handling large bulk timber and wastewood, mixed construction waste and industrial refuse. This single shaft shredder has numerous beneficial features, which include: Optimum tooth arrangement on the 3m wide roller which rotates at 31RPM; 21 roller teeth and 22 comb teeth which ensure comprehensive shredding of the feed material; reversible fan wheel; generous hopper shape and

size for easy loading; electrically controlled roller reversing and a large return conveyor. Additionally, the shredder is equipped with a hydraulically foldable rear conveyor which contributes to a fast set-up time once on site. The DW 3060K is equipped with a 320kW (435HP) Mercedes-Benz diesel engine which has power to spare for heavy duty applications and processing multiple waste material types, producing recyclables to exacting specifications and enabling significant volume reductions - all with a reliability, productivity and fuel economy which belie its size. An additional benefit of this machine is the tracked chassis which allows one operator to load and move the unit, saving time and reducing operating costs.

The Doppstadt SM 620K features the well-proven trommel screening drum construction with interior helix, which enables space-saving horizontal machine installation. Designed and built for the screening and separation of domestic, green, C&D waste and wastewood this machine is also ideal for the production of biomass and RDF. The trommel drum has a large screening area of 38.8m² and a rotating speed of up to 15RPM. Replaceable screens, a variety of ancillary equipment and choice of mesh sizes allows this flexible machine to be adjusted and reconfigured for a wide variety of screening tasks and feed material. An efficient mechanical power transmission features direct chain wheel drive, with geared motors at the drum surface, and the variable speed provides optimum adjustment for regulation of the screening quality. State-of-the-art SPS control makes for easy and precise operation and access to the machine's performance and operating data. The self-propelled crawler undercarriage provides agile mobility for working at chosen locations throughout the site as required.

Dust busting solution from Bell helps Bodens Group 'stay cool' under pressure

Heat and dust in the working environment are no longer proving to be problems for Bodens Group, as the leading wood products manufacturer can now keep cool under pressure thanks to Bell Equipment's wheeled loaders.

Bodens has extended its use of Bell technology with a new L1806E and a used L2606E, which join the company's existing L1506E purchased in 2013 at Bodens' processing centre in Manchester. While the latter model has been used primarily in sheds, the latest additions will be working in the company's yard, loading up to 200 trucks per day.

The recent investment has been driven by a need to source vehicles capable of performing within the operation's dust-filled environment, where wood waste is converted into biomass fuel, sawdust and woodchip. The dust created in preparing its wood materials - combined with heat from continuous engine use - can quickly clog radiators and lead to the loaders overheating. This in turn can result in unwelcome periods of downtime or an increased requirement for repairs and servicing, both of which risk incurring significant costs.

"There are high expectations placed on the machines in operation within our plant. Each is given a long, heavy workload, within what can only be described as challenging conditions," explains Alan Whitrow, Operations Manager at Bodens Group. "Given our high daily throughput, we need machines that not only deal with the dust, but can also make the grade when it comes to fuel efficiency."

"While historically, our drivers and yard manager have held allegiance to other reputable vehicle manufacturers, the success we've achieved with our first Bell loader meant that it made sense to return to QuadCool technology," Alan adds.

The industry-leading QuadCool cooling system is unique to Bell loaders in the UK and has already become renowned for its ability to help manufacturing, recycling and waste management industries to "avoid a dust-up."

QuadCool works by compartmentalising the radiator technology by incorporating fine mesh pre-filters and wide core radiators. This ensures that dust bypasses the radiators, which helps avoid build-up and extends the periods between cleaning operations. In conjunction, the QuadCool technology also includes an automatic reversing fan, to blow accumulated debris away from the radiators and minimise the frequency of cleaning routines.

This innovative technology was what first attracted Bodens to Bell when they discovered the company at the Recycling & Waste Management Show in 2012. "We agreed to trial a loader and were extremely pleased with the results, confirms Alan Whitrow. The Bell loader proved extremely robust and demonstrated many impressive qualities, including efficient fuel consumption."

"When combined with the QuadCool technology, the whole package came together, especially as the machines we'd used previously were constantly overheating and we were happy to buy the machine."

The latest order comprises a new L1806E, which is ideal for high tip or clamp bucket work, as well as a low-houred used L2606E, which is comfortable, 'site safe' and highly acclaimed for its productivity.

Nick Learoyd, Managing Director of Bell Equipment UK, is pleased with the positive experience Bodens has enjoyed with its latest additions.

"Both vehicles have been in operation for 4-6 weeks. It's great to hear that they are performing well, with QuadCool proving its worth yet again. We understand too that the plant's drivers and yard manager have been convinced by the new equipment, which is especially gratifying, and we hope that the chosen loaders will provide Bodens with many successful years of service."

Heat and dust in the working environment are no longer proving to be problems for Bodens Group, as the leading wood products manufacturer can now keep cool under pressure thanks to Bell Equipment's wheeled loaders.



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Presona baler helps leading waste management company on its way to zero waste

One of the UK's leading waste management companies, Premier Waste now diverts 98.6% of all material from landfill following an overhaul of its baling equipment.

Established for the past 25 years, Birmingham-based Premier Waste specialises in the collection and treatment of waste that cannot be reused or recycled from construction and demolition sites across the UK.

Making use of the 200 tonnes of 'waste' material which was previously sent to landfill each day, Premier Waste used this and became a supplier of Solid Recovered Fuel (SRF) to the UK's construction Industry. However after this sector took a hit during the economic downturn, Premier Waste sought to become a reliable supplier to the European market and turned to Presona to make this happen.

Mark Jones, Operations Manager at Premier Waste said: "We looked at a number of balers that could produce SRF and Presona was the 'go-to' brand. Presona understood our requirements - in the UK SRF is supplied loose but in Europe it needs to be baled."

After discussing requirements, Presona recommended its LP50 EHF2 'string tie' baler to Premier Waste. Capable of handling 24 tonnes per hour and processing SRF, this baler would also be able to tie the SRF bales for the European market.

The introduction of the baler resulted in Premier Waste scaling down its operating costs. Indeed, polypropylene twine with a high calorific value is now used to bind the bales in favour of traditional steel twine. This has reduced the cost of these consumables by 70% and, with the pre-press, power consumption is reduced by up to 60% over a standard shear baler.

The end users also benefit from the SRF baled in this way. The bales now weigh up to 850kg making them more energy efficient resulting in cost savings for the kiln operator.

"Presona's baler has had a huge impact on the way we operate. If it was not for this piece of equipment we would not be able to branch out and supply SRF to Europe," said Mark.

"Material previously classed as 'waste' has turned out to be a lucrative, additional stream to our business as well as impacting on our green credentials by diverting this material away from landfill."

"None of this would have been possible were it not for the installation of the Presona baler."



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New 3D Sieve Shaker OCTAGON 200CL

For precise, reproducible and error-free sieving processes



Endecotts' new Octagon 200CL competes with the most advanced sieve shakers in the world. Several unique features have been developed specifically for this machine, including the 'Closed Loop' amplitude control for ultimate reproducibility.

The sieve shaker is powered by an electromagnetic drive which has no rotating parts making it maintenance-free and extremely quiet in operation. The vibratory, three-dimensional motion produced by the power unit moves the sample over the sieve in a unique way resulting in faster, more efficient sieving, while the rapid vertical movements help to keep the apertures from blinding.

The Octagon 200CL is designed to work with Endecotts' SieveWare, the new software for easy evaluation and documentation of the sieving process.

The new Octagon 200CL will be available as of July 2014.

NEW FEATURES:

- 'Closed Loop' total amplitude control ensures reproducible sieving
- Digital controls for easy and reliable operation
- Easy-to-use sieve clamping system
- Accepts up to 8 full height 200 mm (8") diameter sieves
- Suitable for dry and wet sieving
- 3D sieving motion allows for high separation efficiency and non blinding sieving action
- Full compatibility with new SieveWare evaluation and control software via RS232 Port (printed or digital protocols)
- Voltage-independent

www.endecotts.com/octagon-cl



www.hub-4.com/directory/9238

Sideflex a new concept to an age old problem of sidewall damage to haul trucks



Erlau AG founded in 1828 in Aalen is a subsidiary of the RUD Group and a leading manufacturer and supplier of tyre protection chains and outdoor furniture.

RUD-Erlau have been producing and protecting tyres with their innovative chains for over 70 years. Tyre chains have worked well for wheeled loaders, bulldozers & graders but are not economically viable for haul trucks. TPC chains will not work for haul trucks due to the long distances they travel, weight considerations and increased fuel costs.

Anyone in the industry knows the continuous vulnerability truck tyres face to sidewall damage from haul road rock debris and accidental impact. Tyre protection chains are simply not compatible; slow the trucks down, raise fuel consumption, damage to tyres through blowouts and delays in production time.

A solution was needed: Sideflex was the answer, the first cost effective sidewall protection for haul truck tyres.

Sideflex is simple in concept and installation, it does what it says it does, offers maximum sidewall protection for haul truck tyres. It comprises a robust set of wheel nuts and extensions supporting a flat ring to which is attached to a fanned array of overlapping platelets. In working action the platelets shield the entire sidewall and deflect the problematic rock debris that commonly pierces the sidewall rendering the tyre useless and immobilising the truck.

The mounting components are made of steel and the all-important and impressive Sideflex shield is manufactured from a sophisticated engineering polymer. The robust and innovative material offers a great degree of capability which enables the platelets to flex and deform upon impact and then return to their original shape time after time.

Sideflex is such an innovative product, it offers numerous advantages to the user, is easy to use and is extremely lightweight which means that for the first time there are solutions to dump truck owners that are cost effective, fully proved and patented.

Sideflex is a brand new concept providing a viable solution to an age old problem of sidewall damage to haul trucks download our brochure for more information <http://ow.ly/d/1cXD>

Follow our RUD Group news at www.rud.co.uk & Rud Chains Ltd on social sites. Follow Erlau news at www.erlau.com & Erlau UK on social sites.



www.hub-4.com/directory/743



MUCON Promoflow Discharge Aids

Many operators in a variety of process industries encounter problems such as;

- Bridging
- Rat-Holing

Such predicaments lead to material blockages in silos and hoppers. At the very least insufficient flow rates are encountered, causing reduced efficiency, productivity and production downtime, whilst the problem is resolved by maintenance staff.

There are many types of discharge aids on the market. However, few can match the versatility of the MUCON Promoflow Discharge Aid!

The MUCON Promoflow unit consists of expanded metal screens, which are mounted on the inside of the hopper, with a shaker support frame rigidly mounted to the metal screens using interconnecting bolts and spacer assemblies. These assemblies pass through the hopper, allowing the shaker to be operated externally.

The screen generates a shearing action, which undercuts the base of any 'bridging' formation, at the same time transmitting a vibratory influence to the surrounding material mass.

Various screen shapes and sizes are available to meet the requirements of most hoppers.

The Promoflow is an ideal solution where product discharge is problematic because;

- It can be fitted retrospectively to hoppers and silos.
- It can be fitted to any size, shape or configuration of hopper within a few hours.
- Unlike other products in the market, it vibrates the material and not the bin.
- When fitted with a control timer unit, product discharge can be adjusted to suit the requirements of the 'downstream' process.
- Low air usage means low running costs.

Tel: +44 (0)1625 412000

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Glen Creston's process and laboratory machinery

Process engineers should be particularly interested in Glen Creston's Roller Crusher mill due to its ease of inclusion into process lines.

This rugged, slow-running mill is equipped with either a single or double roller shafts fitted with crushing cams which rotate between crushing and stripping combs. Different shaped crushing elements are available depending on material.

The Roller Crusher is particularly suitable for de-agglomeration of materials from sacks or silos, pre-crushing softer minerals and for granulating coarse lumpy, caked or compacted materials into more manageable lump sizes.



Features include:

- Robust construction
- Minimal maintenance
- Compact design allows retro-fitting into existing process lines.
- Parts easily removed for maintenance/repair

Suitable for:

- Pigments and Resin
- Food and Pharmaceutical
- Coal
- Waste materials and Ash
- Minerals

OPERATING PRINCIPLE /CONSTRUCTION

The crushing cams of wear-resistant steel are mounted on the roller shaft in staggered positions, accurately spaced so that they pass between the crushing and stripping combs which are mounted laterally on opposite sides of the inner housing. Both sets of combs are identical in design but have different functions.

The bearing plates at both ends of the housing accommodate the roller bearings, protected by radial seals, in which the shaft rotates. These bearing housings can be offered in extended mountings to allow for cooling when processing high temperature materials such as power station ash.

The second shaft of the Double Roll Crusher is driven by grease-lubricated gear wheels on the outside of the housing.

For more information on the Roll Crusher, please visit <http://www.glencreston.com/products/light-industrial-machines/roll-crusher-mill.aspx>

 www.hub-4.com/directory/9239



Howcroft Industrial Supplies enjoys continued growth

Howcroft Industrial Supplies (HIS) is an independent supplier of Maintenance, Repair and Overhaul (MRO) consumables and is based in the heart of South Yorkshire.

Established in 1999, the company has enjoyed continued growth, re-locating to its current warehouse and office building in 2012.

Owned and managed by Allan Howcroft, the company has a friendly team who are happy to help however we can. We have a same day delivery service from our extensive stock items with speedy delivery wherever possible on other, more bespoke items.

We are proud to have continuous ISO 9001 accreditation since 2005 giving complete peace of mind and auditable processes for all our customers. Over the years we have been a loyal supplier to the Northern mining industry and have similar, strong relationships with companies in a variety of industries including quarrying, conventional and renewable power, mechanical, petro-chemical, conveying, glass, food, woodworking, brick & concrete, water & waste, manufacturing & distribution, agricultural, steel and electrical repairers.

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HIS brand of SMGU is manufactured to the highest quality and gives fantastic performance and reliability.

Pound for pound these units are the best money can buy. We call them our 5 star rated product as we have 5 proven reasons why they are better than our competitors.

All our boxes have 25 degree pressure angled hardened ground gears compared to our competitors of 20 degree which means ours offer an 8-10% higher power rating

All bearings fitted in the our boxes are by SKF and FAG.

All our units are fitted with Labyrinth seals that increase oilseal life by 30%

The bearings are protected by shims, preventing failure from backstop debris.

All our hubs and pinions are ground to close tolerances. They are also made from solid cast iron, and it's possible to mount them directly onto the drive shaft. They are suitable for both forward and reverse motion and are fully interchangeable with other SMGU's.

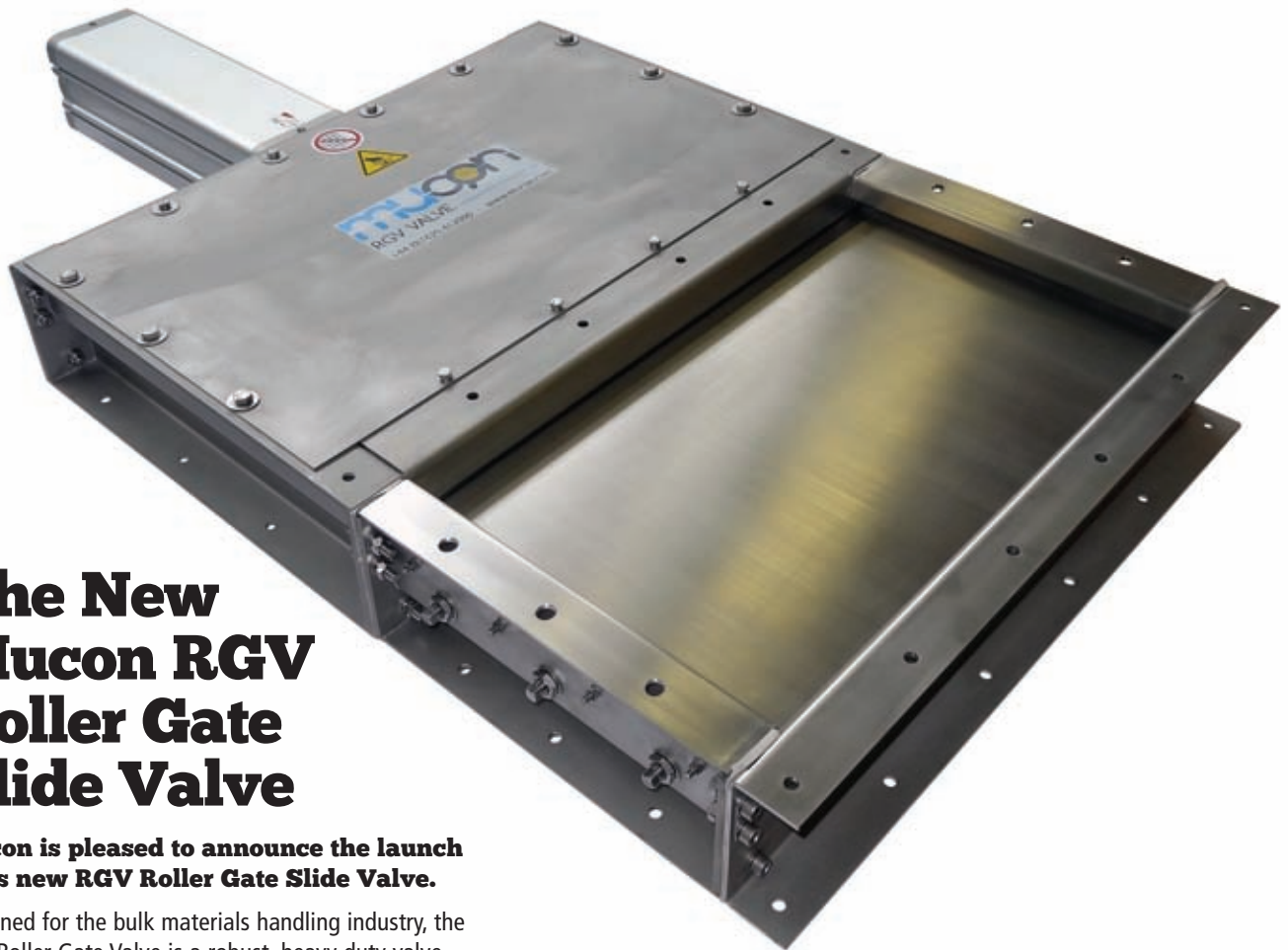
A range of accessories is also available to support maintenance programmes and installation and our boxes are easily identified as they are sprayed in Howcroft black.

Our stock range is available in 11 sizes with normal ratios of 5:1, 13:1 and 20:1.

We are authorised distributors for renowned worldwide manufacturers including NTN-SNR, Cooper, Renold, Kluber, Diamond Chain and ContiTech and are a member of EPTDA (European Power Transmission Distribution Association) - an alliance of 400 independent distributors across Europe.



www.hub-4.com/directory/13249



The New Mucon RGV Roller Gate Slide Valve

Mucon is pleased to announce the launch of its new RGV Roller Gate Slide Valve.

Designed for the bulk materials handling industry, the RGV Roller Gate Valve is a robust, heavy duty valve that is ideally suited for the isolation and control of most dry powders, pellets, grains and granules.

The features and benefits of the Mucon RGV Roller Gate Valve include the following;

- Uninterrupted product flow reduces material hang-up and wear of the blade support rollers
- Sealed steel rollers as standard for extended service life
- Heavy duty construction ensures years of reliable operation
- Easily adapted for round outlets or ducts
- Self loaded blade scraper seal provides excellent product retention and wipes the blade during operation
- All seals and guides are replaceable with the valve in-line, dramatically reducing service and maintenance downtime

The Mucon RGV Roller Gate Valve is available in a range of standard sizes from 150mm (6") to 600mm (24") square. Our manufacturing methods allow us to easily produce custom sizes in square or rectangular configurations.

Contact Mucon to learn more about the new RGV Roller Gate Valve range.

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Vol. 0216 Iss. 0413

OFFERING COST EFFECTIVE ALTERNATIVE SOLUTIONS TO
TRADITIONAL BUCKET ELEVATORS — SCREW ELEVATORS ...

SN Engineering recently completed a turnkey conveying; storage & out-loading project for new powder bulk storage & handling facility. Pre-requisite for the project was rapid vehicle loading efficiency & total independence from existing loading facility which had to remain fully operation throughout the build.

Bringing alternative elevator solutions ...

Following a full site survey a suitable location was agreed for a single 150Te silo, from our 5mØ SP series of panel silos, c/w compact out loading structure — due to the very tight site parameters. To ensure rapid filling of said silo, from adjacent bulk store, a twin system of open pit screws were designed to ensure rapid extraction out of the store.

These in turn feed into a pair of horizontal units that run alongside the bulk store keeping them away from site traffic flow. These in turn feed directly into a pair of

18m vertical screw elevators. Each elevator were designed & manufactured with machined bearing housing, to ensure concentricity, and all flights were machined & dynamically balanced after manufacture to ensure vibration & trouble free operation. Each bearing was then fitted with automatic pressurized lubrication systems to ensure maximum longevity of operation.

Each system runs @ +100Te/Hr thus ensuring out loading silo can be filled rapidly for those high demand peaks.



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Getting the most from our screw elevator design expertise . .

Forefront shows the 150Te out-loading silo & twin screw elevators. System designed for single or twin system operation, therefore 100 or 200Te/ Hr silo filling. Vertical screws are each independently fed via 16m horizontal units that are in turn fed via an 'open pit' extraction screws designed with integral throttle slide for system optimisation.

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Ultra heavy duty bulk bag filling system

A new Ultra-Heavy-Duty Bulk Bag Filling System for mining applications palletises and fills bulk bags with filter cake, aggregates, abrasive minerals, dry chemical additives and other difficult-to-handle bulk materials.

The system integrates a Swing-Down® Bulk Bag Filler with a Flexicon Pallet Dispenser and Powered Chain Conveyor, allowing safe, high-capacity filling of bulk bags of all popular sizes, including bags with wide-diameter spouts for passage of irregular materials.

When a filling cycle is initiated by push button or contact closure, the pallet dispenser mechanism lowers the stack of pallets onto the chain conveyor, releases the bottom pallet, and raises the remaining pallets, allowing the conveyor equipped with photoelectric eyes to move the dispensed pallet into position below the filling station.

The bag connection frame of the Swing-Down fill head lowers and then pivots to a vertical position, allowing an operator at floor level to safely and quickly attach bag straps to automated latches, slide the bag spout over a wide-diameter inflatable spout seal, and press a spout seal inflation button.

The system then automatically pivots the bag connection frame back to horizontal, raises the entire fill head, inflates the bag to remove creases, fills the bag at a high rate, finishes filling accurately at trickle feed rate, deflates the



spout seal, releases the bag loops, raises the fill head to disengage the spout, rolls the bag out of the filling area, and rolls a new pallet into place to begin another cycle.

An annular gap inside of the fill head spout directs air displaced during the filling operation to a single vent for applications requiring connection to a dust collector.



www.hub-4.com/directory/314



Don't Forget Your HUB 2015 Advert Planning



The new HUB media kit for 2015 is available now, to help you plan your marketing strategy. It contains everything you will need including:

- Full Features List
- Magazine, Website and Email Advertising Options
- Copy Deadlines
- Circulation Breakdown
- Rate Card Pricing
- Advert & Editorial Specifications
- Exhibitions that we will be covering during 2015 and early 2016

Our 2015/16 editions will now have show previews for:

INTERMAT
Paris 2015

January 15



April 15



August 15



January 16

Our 2015 Features:

January 15

Intermat Exhibition Feature – A preview of the Intermat 2015 Exhibition in France
Quarrying - Mobile and static crushing and screening equipment. Crusher spare and wear parts. Screens and screen media.
Recycling - MRF's and associated equipment in the waste process line, including trommels, air and ballistic separation technology.
Bulk Handling – Weighing technology, weighbridges, and on-board weighing.

April 15

Plantworx Exhibition Feature – A preview of the Plantworx 2015 Exhibition in the UK
Quarrying - Washing and screening technologies, equipment and plant including sand plant, cyclones, barrels, scrubbing, rinsing, separation, drying, classifying and fines treatment.
Recycling – Waste sorting and separating + equipment solutions for the waste industry.
Bulk Handling – Conveyors, elevators, feeders, chutes and hoppers, and all associated technology.

July 15

Plantworx Exhibition – A review of the Plantworx 2015 Exhibition

Quarrying - Dump trucks, excavators and wheeled loaders.
Tyres and tyre chains, wheel washing equipment.
LED safety lighting and safety technology within the quarry environment.
Recycling - Shredders and granulators.
Bulk Handling - Storage & handling, level measurement & control - hoppers, feeders and chutes.

August 15 - RWM Show Recycling Special Edition

Recycling special edition in association with the RWM exhibition.
Distributed at the RWM Exhibition and mailed out to all of our Recycling database of end users and sites.

October 15

Quarrying – Asphalt & Concrete plant + associated equipment.
Concrete retaining walls and storage solutions.
Recycling - Compaction, baling and wrapping equipment.
Bulk Handling – Explosion control, fire suppression, detection and control.
IBC's + FIBC's technology.


January 16

Although features are yet to be decided for this edition, we will have a BAUMA 2016 Exhibition Feature. A complete preview of the BAUMA 2016 Exhibition in Germany within this edition.

Visit www.hub-4.com to Download the Media Kit for 2015/16

If you need any help or would like a specific package putting together please call David Roberts on +44 (0) 20 3637 0385 or email david@hub-4.com

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