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Exciting News from HUB-4.com

Due to the success of the HUB-4 magazine, from January 2016 the magazine will become a Bi-Monthly publication producing 6 issues per year across the Quarrying, Recycling and Bulk Materials Handling Industries.

The magazine has naturally grown in size with exciting editorial features and will continue to be posted out as a quality hard copy publication to 6,200 sites and end users across the UK and we will promote the on-line 'Page-Flip' version by email on each edition launch, allowing our global audience to easily access and view a copy of the magazine. We will also be adding 'Gate-Fold' covers and internal 8 page 'Gate-Fold' specials in the magazine, keep an eye out for those!

To download a full copy of the HUB-4 Media Kit please visit <http://hub-4.com/download/content/2/0/>



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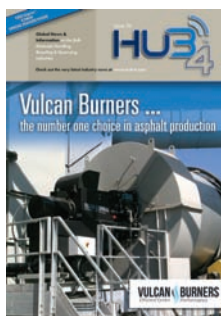
Issue 35 - Autumn 2015

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Vulcan Burners Celebrate Repeat Order Success

Highly innovative Vulcan Burners, developed by the expert technical team at Asphalt Burner Services (ABS) in Northern Ireland are celebrating the success of the Vulcan Burner range with repeat orders from existing customers. The Vulcan range is fast becoming the preferred combustion equipment provider for the UK asphalt market. The range includes single, dual & multi-fuel burners each offering significant fuel savings. Customers include Aggregate Industries, Cemex and Eurovia, in addition to other independent companies such as Tynedale Roadstone & FP McCanns. All proving extremely successful, fuel savings achieved are consistently meeting or surpassing those projected by the ABS team, spearheaded by Ian Lewis, Operations Director.

With continued success, ABS are now celebrating multiple repeat orders. Aggregate Industries have recently committed to a further three burners at their asphalt sites - bringing the fleet of Vulcans to thirteen across their business. Their continued commitment to combustion system upgrades reflects the confidence that Aggregate Industries have in the Vulcan range and the ABS team to replicate the results they achieved on previous upgrades.

Another successful secondary order received this summer is from Tynedale Roadstone for their new site at Barton Wood. Tynedale wanted to upgrade the pre-existing Benninghoven TJ04 burner to a new system that is more efficient and reliable. The installation has been completed and fuel savings were immediately seen during production. John Laing, Area Manager for Tynedale Roadstone said, "From the fuel savings we have achieved at our Newburn site with the Vulcan burner, it was a no brainer to also upgrade the burner system at our second plant in Barton Wood. This has been a very successful upgrade which we are very pleased with".

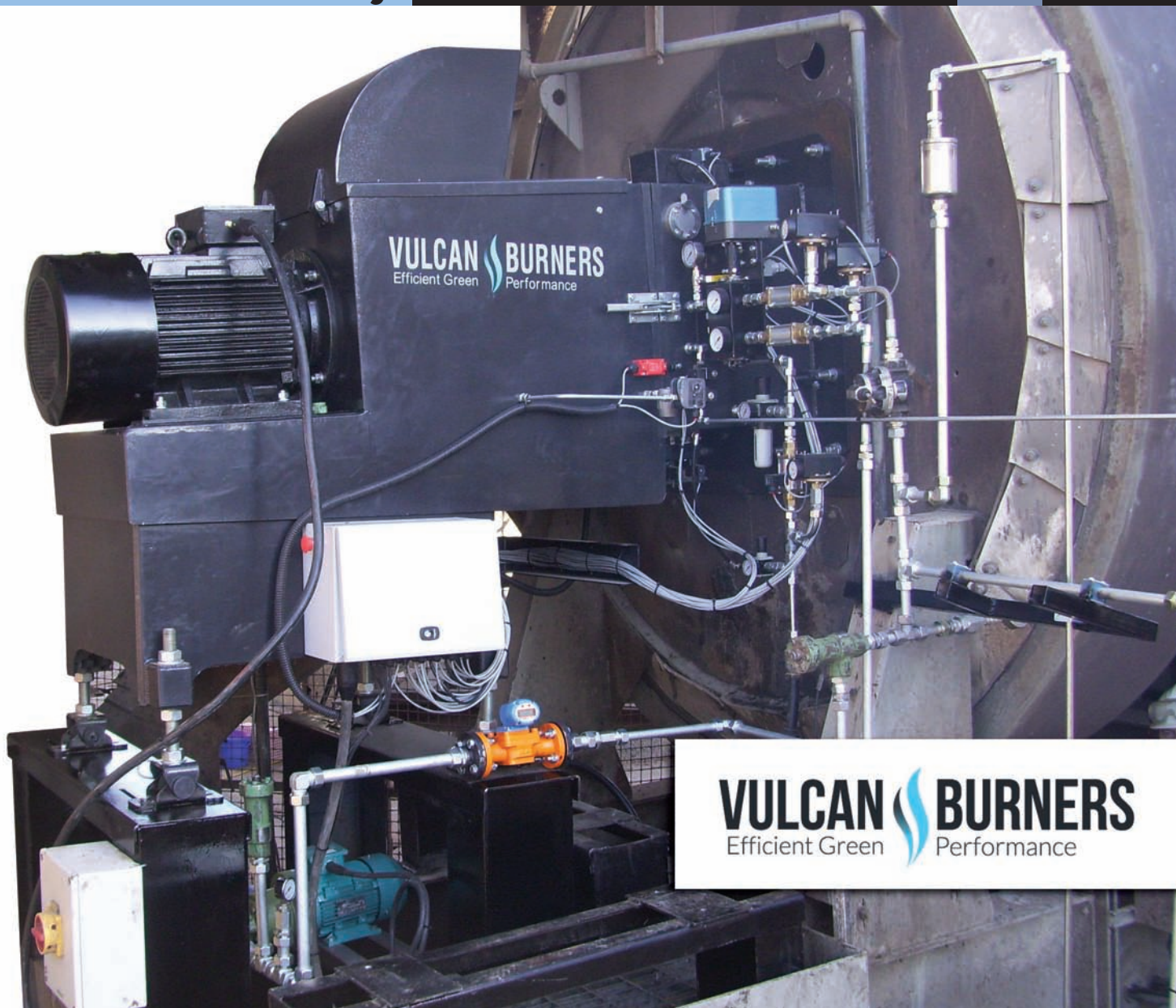
Cemex UK have also made upgrades on a number of their existing plants with ABS nearing the end of a multi-year project to replace 12 burners at 9 of their sites. Enabling higher production quotas at lower output costs, the new



Vulcan Burners operate primarily with Natural Gas but also have a secondary liquid fuel feed. All burners are inverter controlled via a Burner Management System and come with all the design features expected with the Vulcan.



The Cemex project presented a number of technology challenges for the ABS engineering team; Martin Gandy, Senior Electrical Engineer said 'We were asked to replace two



burners on a Shotcrete batching plant. This is Cemex's main plant which produces a high quality concrete. The drying drum of the plant is sphere shaped with material being fed into one end of the drum and discharging from the middle of the drum. This process requires both burners to fire simultaneously into each end of the dryer. A single burner management system controls both burners, monitoring the flame shape and fire-up procedure. To complicate matters, the plant is situated 24 meters above ground level and is contained within a closed tower. However despite the difficult aspect of the dryer type and the plants location, the burners were installed within a short timeframe with minimal disruption and downtime to the customer. The new combustion system has increased production capacity by up to 50%.

With continued success ABS take pride in providing customers with the best possible products and service - particularly their after care service and site back-up which is highly acclaimed. 'The team of engineers is the largest in the UK, offering one of the most experienced and reliable servicing divisions in the industry.' Jodie McCann, Services Manager continues, 'Our engineers understand the importance of plant reliability and comprehensive servicing. The engineers not only look at the burner unit itself but the associated plant that attributes to the efficient running of the burner. Our customers recognise our capability and this is reflected in the repeat custom that we receive.'

Ian Lewis, Operations Director, Asphalt Burner Services stated, 'By working with our customers and carrying out pre-site audits, our engineering team gains a full understanding of every process within the production cycle. The burner is related to a number of critical components such as the dryer and dust extraction system; all three components depend on each performing well and if one section is not working correctly, then the whole process is affected'.

We treat each site as an individual case and using this method we can adapt a program and tune the burner to its optimum range for efficient combustion. Each install is tailor made for the asphalt plants' needs. This level of competency gives us the edge over other manufacturers. "

With 2015 being the busiest year to date for the Vulcan range and orders already arriving for the coming year surpassing expectations. In no less than 3 years, ABS have a UK market share of over 30%. These figures speak volumes by the results achieved for the Vulcan range. 2016 is looking to be another successful year on top of another product launch that will strengthen the Vulcan range as a leader of innovation and R&D towards greener, more efficient and highly reliable asphalt equipment.

VULCAN BURNERS
Efficient Green Performance



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Versatile and powerful – Industrial gear units from SEW-EURODRIVE



SEW-EURODRIVE offers suitable industrial gear units for applications requiring high torque ratings. The modular concept once again provides optimum adaptation of industrial gear units to meet a wide range of different applications. Besides the great flexibility of our standard products, we can provide bespoke units tailored to your individual specification up to 5,000,000 Nm. SEW-EURODRIVE is your competent partner for all areas, from process planning, through project planning all the way to startup. These services are supported by our renowned, worldwide service for a comprehensive guarantee of reliable completion of all process stages. SEW-EURODRIVE—Driving the world.

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The New QE241 - Compact in design yet big in capability

Sandvik Construction is expanding its range of scalpers with the launch of the new QE241 heavy duty scalper. Compact in design and easy to transport, you will benefit from the same outstanding, user-friendly features from our Premium range of scalpers, yet in a smaller scale version.

We have developed the QE241 based on customer feedback. Although targeted primarily at the European market, it will be the ideal solution for our smaller end users where performance, versatility, transportation & setup times are most important. The QE241 also benefits from Sandvik's long history of mobile scalper development as well as sharing common characteristics from its larger siblings including a two way split configuration option and sequential start-up.

Capable of scalping before or after a small crusher, the QE241 features a heavy duty variable speed belt feeder and a highly aggressive 11' x 4' / 3500 x 1240 mm double deck screenbox. This offers the largest scalping area in its class, which combined with the banana-type bottom deck arrangement, will provide a highly effective and efficient screening solution like no other. The impressive 1200 mm / 47" wide conveyor can handle the toughest oversize material and two hydraulically folding side conveyors handle the fines and midsize products.

With a wide choice of screen media available, the QE241 offers customers a highly versatile unit which can be configured to suit the specific requirements of the application.

Its robust chassis has been designed to be compatible for two-way or three-way split versions, a unique feature in this product category.

The safety and comfort of use is of paramount importance for our operators. A key benefit to our customers is the easy to use control system and user interface with sequential start, a common feature across our 1 Series screens and scalpers. The model also comes with two speed tracking which helps to reduce travel time between jobsites.

Designed for ease of transport, the 17,500 kg / 38,580 lbs model comes complete with hydraulically folding tail and side conveyors, together with a rigid one-piece hopper for quick set-up times. These features, combined with its compact footprint make it ideal for contractors requiring the need to travel quickly from site to site.

Ease of maintenance is ensured through the hydraulic jack up facility on the screen box, also common with its larger siblings. This allows easy access to the bottom deck for service and screen media changes. >



Key customer benefits include:

- **Ease of mobility** - Its compact footprint means it is easy and economical to transport Two speed radio remote controlled tracks for faster relocation between sites
- **Massive throughput** - Wide oversize conveyor with variable speed to handle more oversize product
- **Ease of operation** - Unique color-coded control panel with one touch start/stop
- **Versatility** - Choice of different screen media available for different applications Compatible for 2-way or 3-way split configurations
- **Ease of maintenance** - Screenbox jack-up facility with easy access to bottom deck media
- **Massive stockpiling capacity** - Integrated hydraulic conveyors
- **Safety** - Fully compliant with current safety regulations
- **Highly efficient** - Machine designed for efficient fuel economy, and low operating costs



Key Dimensions

Screen Size	3500 x 1240mm / 11' x 4' (4.3m ² / 44 ft ²)	
Engine	CAT C4.4 Acert 74 kW / 100 hp (Stage 3A / Tier 3) CAT C3.4 55 kW / 74 hp (Tier 4 final / Stage 4)	
Hopper Capacity	4.2m ³ / 5.5yd ³	
Transport Length	9.98m / 32' 9"	Working Length 12.23m / 40' 1"
Transport Height	3.1m / 10' 2"	Working Height 3.9m 12' 10"
Transport Width	2.5m / 8' 2"	Working Width 14.5m / 47' 7"
Estimated Weight (Standard)	17,500 kg / 38,580 lbs	



Carl Foley appointed as Field Sales Engineer for Tema Isenmann in the South West Region

Following the recent retirement of Neil Black after 10 years' loyal service with TEMA Isenmann Ltd the company are pleased to announce the appointment of Carl Foley as his successor.

Having worked exclusively for the past eleven years in the quarrying industry Carl brings with him a wealth of experience in production and maintenance within the asphalt and aggregate sector.

As a former customer and user of TEMA Isenmann products at an aggregate operation in North Devon, Carl has first-hand knowledge of the Isenmann WS85 modular system, woven wire mesh and a full understanding of the company's philosophy all of which will aid the initial transition period in servicing all of the many established clients in his territory.

Carl can be contacted on 07739 910059 or carl@tema.co.uk



Nicholls Ecotech Ltd announce a new partnership with XT Pack

Nicholls Ecotech Ltd one of the most experienced businesses in the recycling machinery arena and exclusive distributors for 'Jovisa' machinery has today announced an exciting new partnership with XT Pack in relation to XT's best-selling range of small balers which will be marketed under the 'Nicholls Ecotech XT Pack' brand.

The agreement involves the marketing, distribution and after sales support of XT Pack's well-proven products that have established XT Pack's reputation in many demanding international markets. The new arrangement follows a year of involvement between the companies during which products have been carefully configured for the wider EU market and Nicholls Ecotech will spearhead Nicholls Ecotech XTPack's™ launch across Europe.

Engineered with class leading components from Goodyear, Siemens, SevenOcean and Mitsubishi the vertical balers cover a full range of applications from larger sites to smaller retail units.

Mike Liu General Manager of XT Pack - The new relationship with Nicholls Ecotech takes XT Pack to a new level in the UK and EU markets and we look forward to serving many new customers.

Dave Norman Sales Manager at Nicholls - The new Nicholls Ecotech XTPack™ range is a perfect addition to Nicholls Ecotech's offer and will meet many customers' requirements for well-supported, well-engineered and affordable on-site recycling solutions.

 www.hub-4.com/directory/6550

Iain Herity appointed as Managing Director for Blue Group

(London and the Home Counties Region)



Leading supplier of materials processing equipment, Blue Group, have appointed Iain Herity as Managing Director for London and the Home Counties Region

Being one of the leading figures in the industry over the past three decades means Iain brings with him a wealth of customer

knowledge, particularly in the London area. He also offers extensive product development experience, clearly demonstrating Blue's intention to remain as one of the fastest growing and customer focused businesses within the sector.

Iain started his career with Powerscreen in 1985 before being recruited by Extec to assist with the launch of the business in 1988. Having been involved from the company's inception, even prior to the manufacture of a prototype, Iain was integral to the growth and development of the business. He recruited and trained every member of the highly successful global sales team and was heavily involved in the product development of a 10 screener and 10 crusher range. After 20 years of growth, he went on to oversee the amalgamation with Fintec and subsequent sale to Sandvik for almost £200million in 2007.

Blue Group Director, Austin Carey commented, "We are delighted to welcome Iain to The Group. His achievements within the industry have been immense with the creation and evolution of key brands. Furthermore, his experience means he has longstanding relationships with our existing key accounts in the South East. To secure the services of someone of Iain's stature within the sector, I feel, clearly demonstrates Blue's reputation as a leader within the industry"

Iain himself said, "It is a privilege to be joining Blue. No other company held their appeal and I am very much looking forward to getting started. I have known the Director's at Blue for over 20 years and have seen them develop the business dramatically over that period. I am confident that I can help continue that trend by improving efficiencies and ultimately increasing profitability.

 www.hub-4.com/directory/2260

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- Raising the standard in asphalt production
- The new burner range from Asphalt Burner Services Ltd

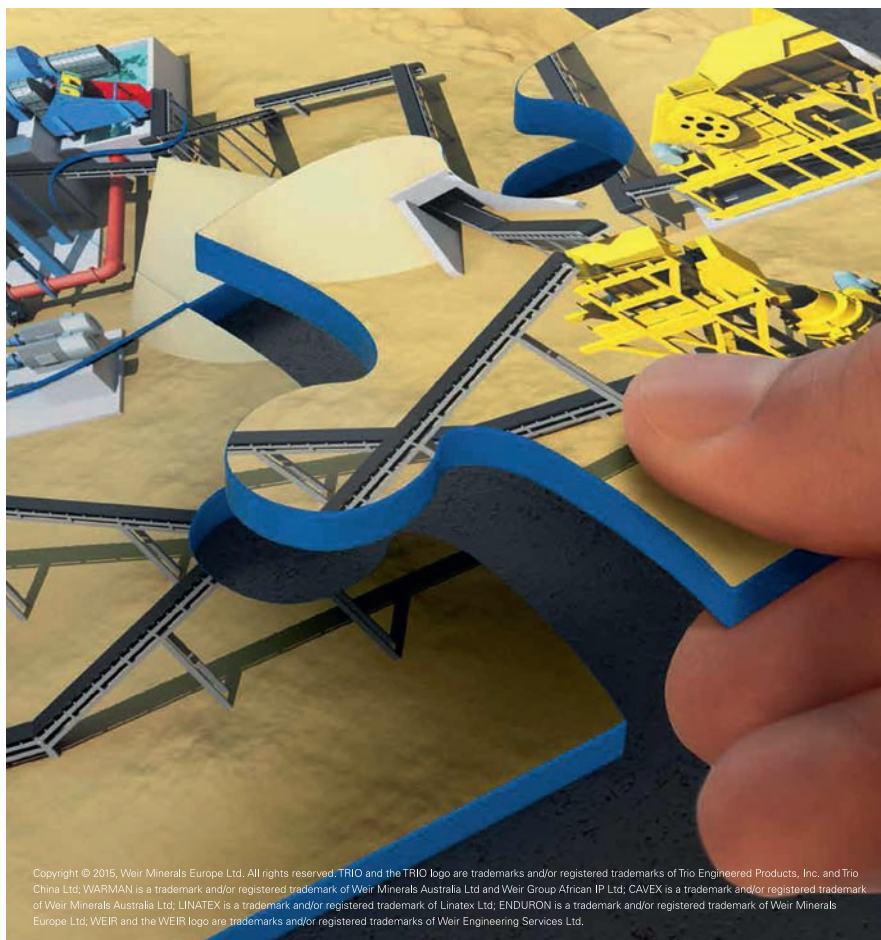
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46 Years... It's Miller Time!

Long serving CMS Cepercor employee Brian Miller has taken retirement after 46 years of working in the crushing industry. Spending a total of 16 years with the Coalville based company, Brian originally joined OEM crusher manufacturer Frederick Parker in the summer of '69 as a young trainee machinist and was initially trained to cut keyways in new crusher, screen and asphalt plant shafts using a Cincinnati milling machine.

Eventually he was moved on to operate a large 25' bed Elgamill, where Brian machined new Parker crusher mainframes and jawstocks amongst other major components for the wide range of plant they manufactured.

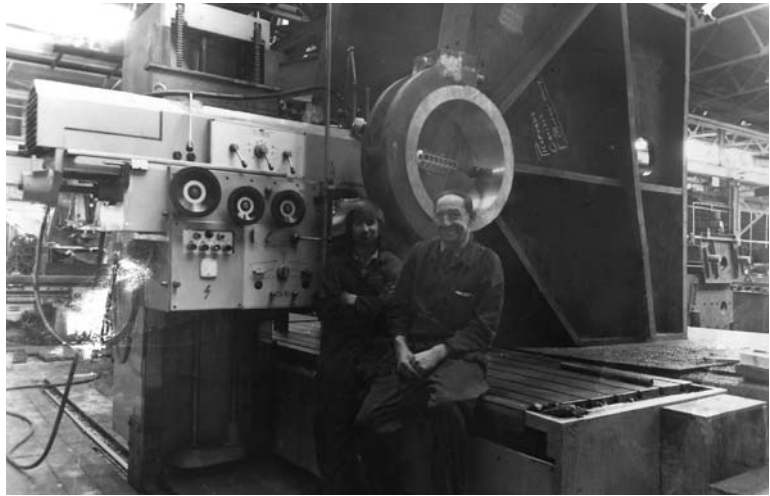
During this time Brian held positions of responsibility including that of shop rep, shop steward and importantly the glue that held large manufacturing business together the Sport and Social Chairman, ensuring each and every member received a turkey and bottle of wine at Christmas.

Brian continued his career progression at Parker becoming works foreman in 1982, then superintendent and finally assistant works manager before financial issues led to the demise of the brand.

In 1999 Brian joined Cepercor where he successfully managed their large stock inventory and warehousing functions handling both genuine and aftermarket crusher spare parts and wear parts.

Following the acquisition of Cepercor by Crusher Manganese Steels Limited and the forming of CMS Cepercor in Coalville, Brian was appointed works manager with responsibility for all crusher service and stock management (those annual stock takes will never be the same again!).

For the last few years Brian has worked as project manager overseeing the commissioning of the new CMS Cepercor Technical Centre manufacturing and warehousing facility and more recently the logistics of populating our new global headquarters warehouse in Coalville with our vast stock inventory.



Brian (left) machining a Parker primary 50"x36" jaw crusher mainframe.



Brian (right) alongside Bob Bent (also previously employed by Parker, Cepercor and now CMS Cepercor).



Brian pictured below in the CMS Cepercor Rainbows Children's Hospice charity football game.



Brian (left) with best friend Rod Hurst (another previously employed as man and boy at Parker, Cepercor and now CMS Cepercor) marshalling a charity lorry pull.

17 Hillhead exhibitions

Brian has been a pivotal team member in organising the Hillhead exhibition stands for the company and during the last 46 years Brian has attended 17 Hillhead exhibitions for which his organisational skills and hard work will be sorely missed by the team for the upcoming Hillhead 2016.

Being an avid Leicester City supporter Brian in his younger years had a fearsome reputation as a tough tackling midfielder and respected manager in the Leicester amateur leagues. He is also known as a very generous man devoting a considerable amount of his time to charity work including helping to run Thurmaston Charity Bikers which is focussed on helping good causes in the local community.

Being a true company man through and through Brian and his work ethic has been a key contributing factor in the success of CMS Cepercor over the years and those who have been well trained under his stewardship are well placed to now try and fill the void he will leave behind.



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NEW QE241 SCALPER BIGGEST SCREEN SIZE IN ITS CLASS

Understanding your needs and requirements has helped us develop the latest addition to our heavy duty scalping range. Our new QE241 features a massive 11' x 4' / 3.5 x 1.24 m double deck screen box, the largest in its class, to increase screening efficiency and maximize your throughput. Compact in design and easy to transport, our new QE241 will offer you a highly productive, versatile and user-friendly mobile scalping solution like no other.

Bigger is better, so don't compromise on productivity!

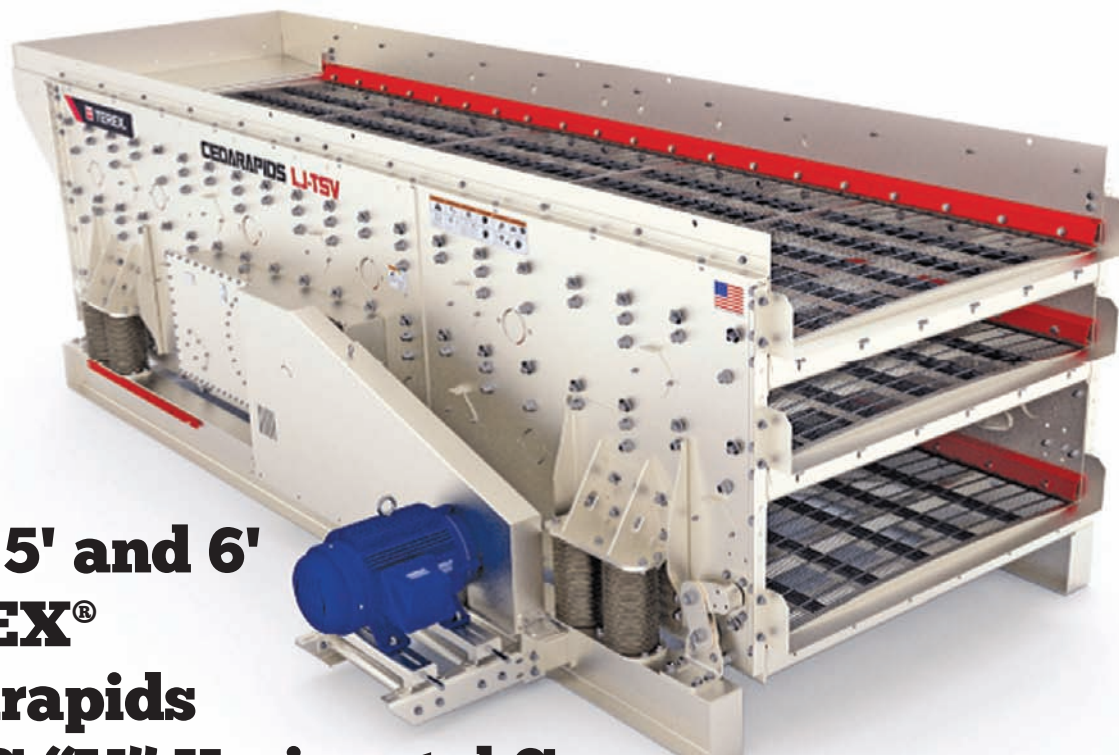
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New 5' and 6' TEREX® Cedarapids LJ-TS “V” Horizontal Screens now deliver unmatched production

Terex® Minerals Processing Systems (MPS) recently added 5'x16' and 6'x16' two and three deck screens to their revolutionary line of “V” Series horizontal screens. Customers can enhance their operation by replacing their existing triple shaft screens with the “V” Series screens. The new Terex® Cedarapids “V” Series horizontal screens increase production and handle applications not possible with traditional horizontal screens because they combine the efficient, high g-force El-Jay 3:1 oval stroke motion with variable slope operation to handle larger deck loads. The new design also features more steel in the rock zone with thicker side plates and heavier decks for industry leading durability. The LJ-TSV screen has several new features to boost productivity. The patented low maintenance vibration damper system and the patent-pending optional bottom deck deflector plates boost capacity. Patent-pending variable slope handles larger deck loads and bigger screen openings to increase production. The screens install up to 10° in 2.5° increments to best fit the application.

Ed Sauser, Product Manager at Terex Minerals Processing Systems states, “We are excited to add more new models to the industry leading “V” Series screen line. Variable slope operation gives customers a product that handles more applications than other screens on the market. The increased capabilities, higher production, enhanced durability and ease of maintenance of the LJ-TSV screen make it an industry leader.”

LJ-TSV Features and Benefits

The new Terex® Cedarapids LJ-TSV screen is built rugged and combines the legendary El-Jay™ 3:1 oval stroke with the unique ability to install at various slopes, increasing production and handling more applications than traditional horizontal screens.

*Screens install from 0° up to 10° in 2.5° increments to best fit a new application or replacement of earlier TSH or TSS models, increasing capabilities to handle larger deck loads and bigger screen openings.

More steel in the rock zone with thicker side plates and heavier decks for industry leading durability; 5/16" (8 mm) Grade 50 side plates are 2-times stronger than 1/4" (6 mm) standard steel; rugged computer-optimized decks with full-length bracing.

New maintenance-friendly features include patented low maintenance surge damper system; *replaceable wire cloth seal strips for no-weld repair; bolt-on upper and lower spring guides; tool-less oil check sight glasses; bottom deck feed curtain; optional magnetic deck wear liners.

*Optional bottom deck deflector plates boost screen efficiency.

High G-force, high efficiency El-Jay™ oval stroke motion adjusts 3-ways (speed, stroke angle, stroke magnitude) to optimize performance.

Patented “flow-through” lubrication system and “sealed-for-life” double O-ring assembly extend equipment life.

Medium scalper option increases feed size from 10" to 14" (254 to 355 mm); option includes side liners/extensions.

*Patent Pending

Visit www.terexmps.com for more information.



www.hub-4.com/directory/8597

KTR product innovation for corrosion-free use

KTR has extended the ROTEX® coupling family with a further variation for applications in corrosion-endangered areas: The new ROTEX® offers a high-quality KTL-layer and achieves corrosive category C4-long according to DIN EN ISO 12944.

The standard hub material of the new ROTEX® is from steel. The protective layer was applied with a cathodic dip coating (KTL), also called cataphoresis. The result is a consistent layer thickness with a very good surface quality and high temperature resistance. This environmentally friendly process offers excellent corrosion properties and guarantees a high fit accuracy of the hubs.

To define the corrosion protection class KTR ran a salt spray test for 1,000 hours. As a result the new ROTEX® variation can be assigned to corrosive category C4-long according to DIN EN ISO 12944 and is thus predestined for use under strongly atmospheric environmental conditions like industrial climate, production facilities with chemical exposures or coastlines with moderate salt water exposure.

The ROTEX® with KTL-layer is available in the sizes 19 to 125 and available from stock as a standard with pilot bored hubs. The flexible jaw-type coupling offers an axial plug-in, is



maintenance-free, offers good dynamic properties, excellent vibration damping, as well as low moments of inertia with high torque transmission. Furthermore, the precise machining has a positive influence on the running properties of the coupling and its expected lifetime is considerably increased.

The ROTEX® with KTL-layer is available ex works with the high temperature resistant spider material T-PUR® - available in three degrees of shore hardness.

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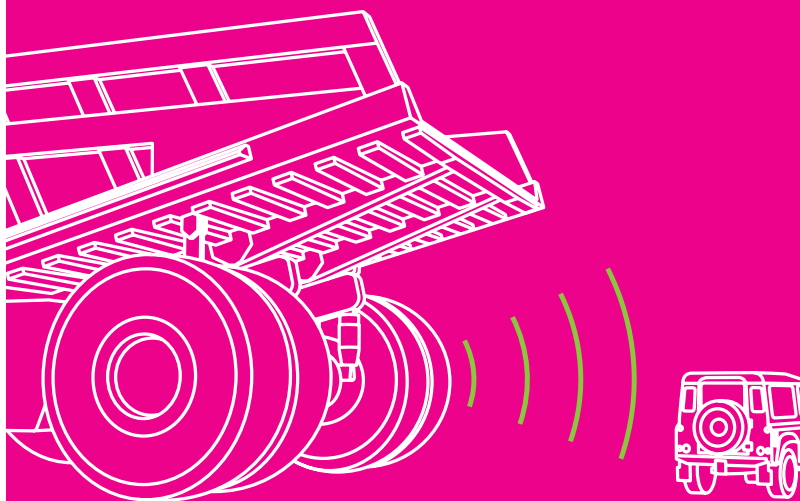
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RWM

15-17 September 2015

REVIEW



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The Titan lighting team



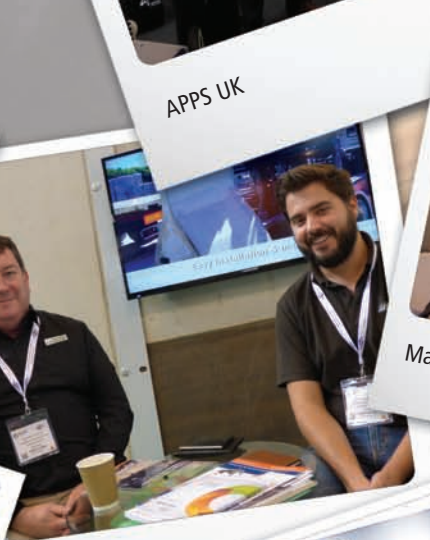
APPS UK



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Poundfield Products



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Arden Attachments

More power
More performance
More profit



The new Nordberg® GP™ range

The revolutionary Nordberg® GP330™ is more powerful and productive than any other cone crusher in the weight class. Higher crushing forces, excellent cavity geometry and proven kinematics produce first-class shape and increase the production of desired end-product fractions.

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Sunsky Karier invests in latest crushing technology

The Republic of Karelia in Russia is an origin of many mineral raw materials, such as iron ore, titanium, precious metals and diamonds. Sunsky Karier, a local producer and supplier of aggregates, is working on developing Suna field, one of Karelia's main field deposits with natural resources.

The Republic of Karelia is a region known for its rich natural resources. At the moment, more than 50 types of mineral deposits and hundreds of mine fields and mineral occurrences are explored. Suna field is considered amongst Karelia's most unique field deposits due to its richness in natural resources that amount to 42.7 million m3.

In 2011 Sunsky Karier LLC purchased a Metso crushing and screening unit in order to optimize the local diabase processing. Four crushing and screening stages provide the opportunity to offer several categories of high-quality aggregates: crushed stone, screened aggregates, quarry stone, sand, and crushed stone mix materials.

The technical solution included a complete set of Metso innovations in the field of production of crushing and screening equipment as well as its experience in electric and automation systems. The unit comprises four crushing and screening stages supplying high-quality crushed stone with the production capacity of the unit exceeding 1.5 million tons per year for crushed stone that equals up to 2.5 million tons per year for aggregates.

Serving European Russia through rail, road and water

The Sunsky Karier site can be considered a unique production facility which incorporates the latest engineering innovations.

Among others, the site being developed fully meets the requirements for industrial and environmental safety effective in Russia. The flexibility of the crushed stone production process parameters as well as the reliability and ease of operations are the distinctive features of the site.



The unit has also an effective logistic system - the site is located in proximity to Petrozavodsk and Kondopoga cities, to a railway station and to a federal highway.

This makes the product supply smooth to users all over the European Russia. The site is also located near the Metso service center in Petrozavodsk city - specialists of the center provide technical support for the project by responding to any questions the customer might have.

Four stages supplying high quality crushed stone

Metso provided Sunsky Karier with a complete technical solution that includes a complete set of Metso innovations in the field of production of crushing and screening equipment as well as Metso's experience in electric and automation systems.

The unit concerned comprises four crushing and screening stages supplying high-quality crushed stone of 40-70 mm, 25-60 mm, 20-40 mm and 5-20 mm grades.

1. The primary stage is represented by Metso's Nordberg C145 stationary jaw crusher. The primary product is supplied to a storage site by a conveyor and transported for further processing.
2. The secondary stage implies a Nordberg HP500 cone crusher which feeds a Metso TS 5.3 screen, producing high-quality crushed stone of 25-60 mm or 40-70 mm grades.
3. The third stage includes a Nordberg HP4 cone crusher and a Metso TS 3.3 screen producing 20-40 mm grades.
4. The fourth stage uses a Barmac 9100 VSI crusher and a TS 3.3 screen to produce fine cube-shaped 5-20 mm grades.



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CDE open day demonstrates the quality of the new flagship plant at Gill Mill Quarry

The HUB was recently invited to the open day to view the new CDE Wash plant recently installed at Smiths & Sons - Gill Mill Quarry.

The Gill Mill aggregate processing plant is the group's flagship operation and lies next to the River Windrush at Ducklington, a village near the West Oxfordshire town of Witney.

With an operational capacity of 450,000 tonnes per year, the new CDE designed plant produces a wide range of washed sands and gravels for use in many differing projects, from the construction of roads and bridges, to building homes and hospitals. Customers include farmers and private individuals as well as commercial users.

Gill Mill is operated to the highest standards, in both production and restoration, and in accordance with the rigorous mineral planning processes of Oxfordshire County Council.

Prior to the installation of the new CDE plant a very old processing system was being used that was struggling to meet the production requirements for Smiths. The new plant now offers consistent 250tph production with minimal operator intervention.

The new plant

All the visitors were given guided tours and we were taken on a tour of inspection by Craig McLeod - Marketing and Sales Support Executive who explained the process thoroughly and gave us a detailed walk through of the process line.



All feed material is transported to the plant via an overland conveyor and stockpiled. A tunnel inside the stockpile incorporates vibrating feeders in the roof which then take the feed onto an inclined conveyor to the plant.

AggMax 151R: The feed material is then delivered to the AggMax portable logwasher, via a transfer conveyor. The pre-screen then removes the oversize material (+40mm) from the top deck while the middle deck delivers the 4mm to 40mm

material to the logwasher. The minus 5mm material falls through the bottom deck of the ProGrade P2-75 pre-screen and is delivered to the EvoWash sand washing plant.

The primary function of the pre-screen is to remove the sand fraction prior to delivering material to the logwasher, as the sand produces excess wear on the logwasher.

After the material has been scrubbed a double deck vibrating screen fixed on the AggMax chassis performs a further separation with the top deck taking +20mm to a stockpile while the bottom deck delivers the 4-32mm material to a transfer conveyor. The -4mm material liberated from the aggregates during scrubbing falls to the sump of the screen and is then sent to the EvoWash sand washing plant.

Infinity P3-75 Sizing screen: This screen accepts the 4-32mm material and produces 3 further sized aggregates: 4-8mm, 8-12mm and 12-20mm.

There is also an additional option to divert some, or all of the 4-8mm material to a crusher to produce an additional sand fraction which can be employed depending on customer requirements.

EvoWash sand washing plant

The versatile EvoWash has an option to produce one or two sand products and also incorporates a dual pass system to ensure that the minus 63 micron fraction is reduced sufficiently.

With the 0-4mm fraction sent through 2 hydro cyclones first before being discharged onto the first side of a split dewatering screen, the 0-2mm material is allowed to pass through the screen deck and into the EvoWash sump before being pumped to the second hydrocyclone stage.

The 63micron to 2mm material is then discharged onto the second side of the split dewatering screen.

Smiths therefore have the availability of either producing a single 0-4mm sand product or diverting the 0-2mm to one conveyor and the 2-4mm material to another.

There are also a number of radial stockpile conveyors included in order to maximise stockpile capacity and minimise double handling of material as well as transport movements on site - further increasing the efficiency of the operation.

Overall it was a very successful day with the sun shining brightly, with many attendees being shown around the very impressive plant. Production is now 'full steam ahead' for Smiths!



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THE ULTIMATE TROMMEL FINES SOLUTION THROUGH INNOVATIVE WASTE SEPARATION TECHNOLOGY

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From **AGGREGATE** PROCESSING SOLUTIONS Part of the Finlay Group



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HYDRO-X-TRACT

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PJ Thory takes delivery of cutting edge washing plant



Peterborough-based PJ Thory has joined forces with Aggregate Processing Solutions (APS) to introduce the latest high performance washing system to its business operations.

Comprising of a CDE M2500 and an AggMax 83R, the system is already proving its worth, processing 1,000 tonnes a day of concrete aggregates at sizes 10mm, 20mm and 40mm, as well as concrete sand, for its customer base across the region.

This investment in state-of-the-art machinery reinforces PJ Thory's position as one of the region's largest haulage and aggregate suppliers.

Founded in 1965 by Peter Thory, PJ Thory is now run by his two sons, Tim and James Thory as well as grandsons Jamie and Edward Thory.

APS, the specialist washing arm of the Finlay Group, has a long association with the company stretching back more than 20 years and worked closely with the team to introduce the new plant.

Jamie Thory said: "We were looking for a long term, complete washing solution and this system is just that.

"It's proved itself to be reliable and is washing material to the highest standard we've seen.

"As a company we gain great confidence and reassurance that we have the service and back-up from APS."

The CDE M2500 boasts feeding, screening, sand washing and stockpiling in one compact unit and can produce four aggregate products and a single sand to the re-quired specification.

Working in conjunction with the CDE M2500 is an AggMax 83R, an enhanced log washer system that gets the aggregates to the correct concrete specification through high attrition scrubbing, final rinsing and grading.

John Dunne, Managing Director of APS, said: "We've supplied PJ Thory with the highest quality equipment that's the most up-to-date on the market.



"As requested we installed a full turnkey operation to include a generator and all of the required water pipe work, as well as the water supply and silt return pumps".

"It's great to see the plant meeting the growing demands of a family-run business that prides itself on quality."

Set up in 2004 to provide a bespoke, turnkey solution in the provision of screening-washing and crushing equipment, APS sells complete systems, as well as contract-ing and hiring of processing equipment.

Every aspect is covered, including the latest innovations in water clarification and silt recovery - with the expertise to deliver solutions in harmony with planning and environmental restrictions and in accordance with restricted CapEx budgets.

APS is a licensed partner to CDE Global and also has access to a wide range of best fit solutions for washing, screening and crushing to compliment all projects, in-cluding Pilot Crushtec, Tesab, Trio and Terex Finlay.

A video of the washing system in action can be seen at <https://www.youtube.com/watch?v=GM4UmGYmHag>



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Hewitt Robins ensures efficient screening at CEMEX Doveholes Quarry

Owned and operated by CEMEX UK, Dove Holes Quarry is situated in Derbyshire close to the Peak District; Dove Holes is their largest quarry providing limestone for construction projects all over the country.

Covering 500 hectares the site currently processes approximately 4.2 million tonnes per annum and features an aggregate processing plant, asphalt plant and a rail link which operates up to 36 trains per week. Approximately 55% of the limestone is transported by rail by DB Schenker to CEMEX UK rail heads, close to major markets in Leeds, Manchester, London, Birmingham and the Home Counties with around 50% of which is premium aggregate used for production of concrete and asphalt.

New aggregate screens

Recently Hewitt Robins have supplied a replacement asphalt screen over the Xmas shutdown 2013 period, with a further two replacement selector screens a year earlier. The new selector screens replaced existing Hewitt Robins screens which were thirty years old. After a site visit and consultation by Hewitt Robins engineers' new selector screens were designed and manufactured and subsequently installed by Roltech over the Xmas shutdown.

Andrew Copley - Maintenance Manager, commented, "It was very straightforward we had an on-site meeting and the Hewitt Robins designer came up with a 'beefier' more heavy duty solution which was exactly what we needed. The installation went well and we were back up and running in the specified time."

Currently handling a 1000tph of 300mm limestone feed the two new Hewitt Robins V-16 2.5 x 6.0 double-deck heavy duty selector screens were supplied complete with feed box having rubber liners, discharge lips having rubber liners, support springs, spring base plates, v-belt drive, motor pulley and vibrator pulley.

Asphalt plant screen

Prior to the installation of the selector screens a third screen was also supplied for the asphalt plant. This replaced an existing screen which was breaking up. Hewitt Robins supplied a replacement V-13 1.8m x 5.0m, 3.5 deck asphalt screen which replaced an existing 2.5 deck screen which was breaking up.

As the plant required an upgrade from four to six bins, Hewitt Robins designed a new screen with an extra deck to give the plant an extra asphalt product. The new screen was also designed with the vibrator unit positioned above the machine allowing more access between the decks to improve health and safety.

Andy, commented, "The new redesigned screen has given us the extra capacity we desired. It's a very good quality screen and we have been impressed by the build quality and had no major issues since installation."

Fed from the dryer at 300 tph material passes over the new screen which has been supplied complete with feed box with ABRO liners, discharge lips having ABRO liners, support springs, spring base plates, on-board 18.5kw drive motor with on-board drive guard, v-belt drive, motor pulley, vibrator pulley, single shafted grease lubricated vibrator unit mounted above screen frame, side tensioned and wire mats.

Andy, continued, "We were very pleased with both installations. The on-going support that Hewitt Robins have provided since installation has given us confidence and built a solid relationship."



Hewitt Robins V-16 2.5 x 6.0 double-deck heavy duty selector screen



BAM Ritchies drill & blast boosted by new drill rigs

Three new DI550 drill rigs from Sandvik Construction have given BAM Ritchies' UK drill and blast operation a major boost. The drill rigs will operate on a number of quarrying drill and blast contracts throughout the north of England and Scotland. The DI550 is the first of Sandvik's new generation down-the-hole drill rigs, designed for large and medium-sized quarries and contractors, matching perfectly with 4" and 5" hammers, making the rig uniquely productive whilst keeping fuel consumption and operating costs to a minimum.

BAM Ritchies, part of BAM Nuttall Ltd., a Royal BAM Group company, is a leading, award winning, geotechnical contractor, providing fully integrated ground engineering services throughout the UK and other parts of the world. These services include 'design and construct' for government organisations, local authorities, main contractors, utilities and public / private companies. Its worldwide reputation is based on delivering innovative solutions for complex geotechnical problems, with exceptional levels of service accomplished by a large highly skilled and well-equipped workforce.

Over the years the organisation has proudly developed a first class reputation for assisting the aggregates industry, drilling and blasting over 40 million tonnes in the UK alone last year. However, its expertise and versatility allows its services to be provided in other related areas. These include larger civils contracts which sometimes require hard rock excavation by blasting, or require site sourced aggregates. Thus BAM Ritchies can confidently claim to be second to none in assisting its customers to undertake a variety of often complex work, safely and cost effectively.

Sustainability in all operations

This varied and extensive work is undertaken worldwide, with the provision of solutions wherever they are required. Thus BAM Ritchies now finds itself involved in a variety of projects which include aggregate production, rock armour production, pre-split blasting for smooth slopes, underwater blasting where the rock is too hard for dredging, non-explosive rock breaking, road widening and realignment, re-profiling and trench blasting. What all these operations have in common is that they are undertaken with the company's overriding mission of creating a sustainable future by bringing engineering to life, being at the fore of its operations. Hence over the years BAM Ritchies has sought to create a sustainable future in all its operations, with this being a core principle since the business was established in 1963.

Award winning company

As the 2014 Ground Engineering Contractor of the Year, a forward looking and advanced culture pervades the company, with a commitment to the continual training and development of its people. Additionally the company places emphasis on the almost exclusive use of its own plant and technology. This is matched by a rigorous approach to ensuring the highest operational safety, as well as the highest levels of environmental and quality performance for its operations. In effect this defines the BAM Ritchies' service. In fact these facets of the business have been recognised by nine other key industry awards in recent years.



BAM Ritchies capabilities now encompass ground investigation, ground engineering, concrete techniques and rock removal, with flexibility of operation and performance proving to be key. It is essential that the company is therefore equipped to be able undertake whatever type of project its customers require. To this end a series of newly won drill and blast projects located at quarries throughout the north of England, reaching as far as Ayr in Scotland, required a modern, effective drilling solution from a company that shares the same priorities as itself. To this end, when seeking out a new drill rig, BAM Ritchies turned to Sandvik Construction and its new DI550.

Latest drilling solutions

The acquisition of the very latest in drill rig technology is vitally important to the company, as BAM Ritchies is now the largest drill and blast contractor in the UK, blasting over 40million tonnes of rock in 2014. Hence the 3 x DI550 drill rigs from Sandvik Construction have been acquired so as to help maintain this position and are set to work in quarries the north of England and Scotland. In effect the acquisition continues BAM Ritchies proud record of challenging the status quo in order to develop new and better ideas so as to solve problems, and improve project delivery for customers.

The new drill rigs fit in perfectly with this approach, as in common with all Sandvik drill rigs, the DI550's are equipped with powerful down-the-hole hammers, being designed specifically for high-capacity rock drilling in quarries, opencast mines and construction projects. They are completely self-contained, with on-board compressors, efficient dust suppression, and a comfortable cab with ergonomic controls and excellent visibility. Meaning that from the very beginning of the design process they are focused on delivering high productivity with low lifecycle costs.

New generation

The DI550 itself is the first of Sandvik's new generation down-the-hole drill rigs, designed for large and medium-sized quarries and contractors. It matches perfectly with 4" and 5" hammers, making the rig uniquely productive and keeping fuel consumption and operating costs as to a minimum. Equipped with the latest technology, it provides BAM Ritchies with great usability, efficient rig operation and low operating costs.

With its 328 kW diesel engine and a 24.4 m³ compressor airflow at 24-bar pressure, it is a perfect match for the 4" and 5" DTH hammers. All power is fully utilized, translating into low energy consumption, low operating costs and maximum productivity. The rig performs efficiently and economically also with 6" hammers. On top of high performance and productivity, the machine offers a first class operator environment with solutions that enable seamless interaction of man and machine: the operator handles drilling and the automation takes care of all machine controls.

Support when required

In order that its customers get the most from its investment, a training course on the DI550 was held in Doncaster for BAM Ritchies and Sandvik personnel. This enabled the BAM Ritchies' operators to become familiar with the new rigs, whilst at the same time developing close working relationships with the Sandvik personnel who will support the equipment in the field. As part of this ongoing support each drill rig has received an onsite inspection from Sandvik before it has been put to work, with further support being delivered through an onsite service contract.

The new DI550 drills are now working at various quarries, on a variety of materials. The features found on the equipment have enabled BAM Ritchies to deal with whatever has been required, efficiently, productively and safely. In addition the support provided by Sandvik Construction also allowed the company that extra peace of mind knowing that should the unforeseen occur, or problems arise, Sandvik will be able to assist the BAM Ritchies' operation through advice and support whenever, and wherever it is required.



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Going through changes: sand and aggregates production in Poland

As EU subsidies encouraging new construction projects begin to bear fruit, Poland's sand and aggregates production is becoming a key market for equipment suppliers, as Jaroslaw Kukawski, Territory Manager at Weir Minerals Europe explains.

Like all European nations, Poland's construction industry was hit hard by the economic downturn of 2008-9, but since then a significant amount of EU funding has been ring-fenced for reviving infrastructure and commercial projects that are now beginning to be implemented.

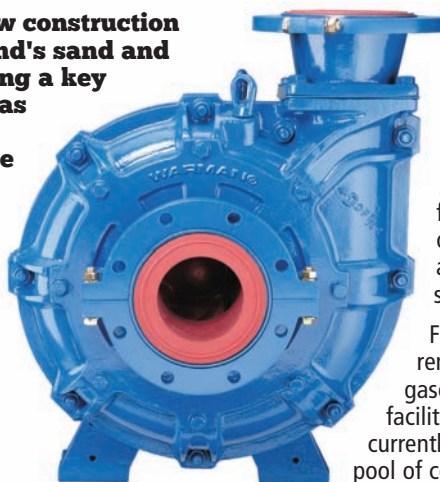
As a result, the domestic sand and aggregates industry is set for a strong period of growth. Sales of cement, a key value-added output from sand and aggregate operations in Poland, grew to 2.7 million tonnes in Q1 2015; a rise of 3.4% against the same period of last year, according to the Polish Association of Cement Producers (SPC).

Whilst this growth may sound modest in percentage terms, it is important to remember that Poland is the second largest aggregates producer in Europe, producing 268 million tonnes in 2013-14, according to the European Aggregates Association, with only Russia ahead of it.

For such a large producer, even a moderate increase in output will require a significant investment in process equipment.

We are already seeing the effects of the uplift in discussions with our quarrying customers in Poland. Indeed, the supply of sand and aggregates equipment now vies with coal mining as our strongest market in the country. We are excited about helping these fast-growing producers capitalise on the increased opportunity by assisting them to get the most out of their process equipment.

Weir Minerals offers a range of specialist solutions for the sand and aggregate processing industry, with the Trio range of comminution equipment recently added to the existing portfolio of process and dewatering equipment. New equipment, such as the Warman® WGR® slurry pump,



designed specifically for the sand and aggregates industry, provide solutions that focused on delivering the lowest total ownership cost.

Flue-gas desulphurization

Another shift providing significant scope for growth in demand for pumps and other process equipment is increasing anti-pollution measures for power stations.

Flue-gas desulfurization (FGD), which removes sulphur dioxide from the exhaust gases of fossil-fuel power stations, is facilitated by a pump-driven circuit, and is currently being implemented across Poland's pool of coal-fired power stations.

This initiative, and the large number of power stations in the country, has seen Poland stand out as the most active nation in Europe for FGD installations. Whilst it is likely that we have already seen the peak in demand for these systems, it is anticipated that significant on-going demand for new systems and aftermarket support will remain in the years ahead.

In focusing on a broad range of market sectors, equipment providers such as Weir Minerals recognise the need to expand their geographic footprint into areas away from the traditional coal mining region in the South and West of Poland. With this in mind, Weir Minerals has invested in Poland with the opening of a service facility, centrally located in Leszno. Plans are already in motion to enhance service coverage in the North of Poland, to ensure local mobile support is available to sand and aggregate producers and FGD plant operators throughout the country.

In conclusion, it is an interesting time for suppliers of process equipment in Poland. By working together with operators, developing innovative solutions and providing localised support, original equipment providers such as Weir Minerals are committed to helping producers across the country meet the demand for raw materials as a result of the all-too-welcome construction upturn.



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Terex Finlay Introduce New Crushing and Screening Models at UK Open Day

From Terex Finlay - Paul O'Donnell, Global Business Line Director, Rik Kiddle, Global Business Development & Sales Director and Brian Pauley, Marketing Manager

Terex® Finlay based in Omagh, recently hosted a UK customer open day in Doncaster, United Kingdom. The event was held Thursday 24th September, 2015, and attracted over 200 end user customers. In addition to UK visitors there was also an international flavour with customers and dealers in attendance from; Austria, Belgium, Ireland, Lithuania, Germany, Poland and Russia.

The event and product demonstration were hosted by Catplant, just outside Doncaster. Catplant are recognized as both experts and leaders in providing quality aggregates and recycling solutions in South Yorkshire, England.

"It has been our pleasure to welcome Terex Finlay and so many of their customers and dealers to Catplant for this event. My team on site along with the Terex Finlay service team worked really hard in the days building up to the show and the result was a smooth and seamless demonstration, but I must make a special mention to Brynn Anderson our quarry manager. Brynn and all the boys went the extra mile and it showed on the day with the excellent display of all the machines on site, the weather even helped"

"We operate a 130acre site quarrying limestone making over 12 various aggregate products. Alongside this we also operate a non-hazardous landfill operation within the same site. We operate Terex Finlay 693/694 Supertrack screens and we have had a relationship with Terex Finlay for over 15 years being the first buyers of the 693 super track when they were launched and then again, the first buyers of the 694 Supertrack when it was launched. We have found Terex Finlay screens to be very reliable and efficient with a good back up service" commented Ronnie Harrod, Managing Director of Catplant.

The onsite demonstrations featured thirteen Terex Finlay machines, five of which have been introduced to the market during the course of 2015. In addition to these new machines a further two crusher prototypes that will be released in Q4, 2015, where on display.

The full machine line up at the event was as follows:

1. **NEW J-960 jaw crusher**
2. **NEW J-1170AS jaw crusher**
3. **I-100RS impact crusher**
4. **NEW I-140 impact crusher (prototype)**
5. **NEW C-1540S cone crusher (prototype)**
6. **NEW C-1545 cone crusher**
7. **NEW 873 heavy duty screener**
8. **883+ heavy duty screener**
9. **883+ Spaleck heavy duty screener**
10. **693+ inclined screener**
11. **NEW 693+ Spaleck inclined screener**
12. **694+ inclined screener**
13. **984 horizontal screener**

Profile of the 2015 NEW machine launches and imminent machine launches that were on demonstration are as follows:

Terex Finlay J-1960 jaw crusher

The Terex Finlay J-960 is a compact and aggressive mobile jaw crusher incorporating a proven Terex direct drive single toggle jaw crusher which gives high capacity with large reduction capacities. The plant features a heavy duty hopper with integrated vibrating grizzly and pan feeder as standard. Its compact size, excellent mobility and high crushing capacity even at tight settings in recycling and hard rock operations make the J-960 ideal for small to medium sized operators.

Key features:

- The robust high performance single toggle jaw crusher provides high capacity with large reduction ratio's.
- Hydraulically folding feed hopper incorporating an integrated heavy duty stepped pan and feeder.
- Selectable discharge to by-pass conveyor or main conveyor maximizes production and reduces wear on the chamber by removing fine material before it enters the jaw.

The machine was demonstrated working in a recycling application and was launched in Q1, 2015.



Terex Finlay J-1170AS Jaw Crusher

The 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. The heartbeat of the machine is a robust hydrostatically driven Terex jaw chamber which provides high capacity with large reduction ratios. The jaw chamber configuration can be set up specifically for quarrying applications or processing construction demolition debris using the hydraulic release chamber option. The J-1170AS features a heavy duty variable speed VGF and integrated prescreen giving excellent production throughput in quarrying, mining, demolition and recycling applications.

Key features:

- On-board After Screen delivering a single sized spec'd product removing the need to a second machine.
- After screen system can be removed quickly allowing the operator to use as a standard unit, giving the operator versatility depending on the application.
- Automatic variable speed VGF ensures continuous choke feeding of the crushing chamber for optimal productivity.
- High powered hydrostatic drive ensures precise chamber control and reverse functionality for clearing blockages and assisting in demolition and recycling applications.

The machine was demonstrated working in a concrete recycling application and was launched in Q2, 2015.

Terex Finlay C-1545 Cone Crusher

The Terex® Finlay C-1545 is a high capacity and aggressive cone crusher that consistently provides high output capacity and a product with excellent cubicity. This efficient and productive machine incorporates the NEW Terex® 1150 cone crusher driven by direct clutch drive with variable speed, automatic tramp relief and hydraulic closed side setting (CSS) adjustment.

The large hopper/feeder has a metal detection and a purge system to protect the cone and reduce downtime by removing metal contaminants via the purge chute.

Key features:

- NEW Terex TC1150 cone crusher provides high reduction and productivity ratios and gives excellent product cubicity.
- Fully hydraulic CSS adjustment with electronic monitoring system ensures ease of operation.
- Fuel efficient direct drive transmission through wet clutch.
- Hydraulic Tramp Relief System with automatic reset protects the chamber and minimizes downtime.

Terex Finlay J-1960 jaw crusher



Terex Finlay 873 Heavy Duty Screen



Terex Finlay 873 Heavy Duty Screen

The 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 offers small and medium sized operators an aggressive, flexible and class leading machine with a wide range of available screening media configurations. The machine has the capability of processing material up to a rate of 450 tonnes per hour.

Key features:

- Screen box angle can hydraulically adjusted to an angle between 13 - 19 degrees.
- Screen box discharge end raises hydraulically 500mm to facilitate mesh changing.
- Screen box can accept punch plate, cascade fingers, bofar bars and speedharps.

The machine was demonstrated working in a concrete recycling application and was launched in Q2, 2015. >



Terex Finlay 693+ Spaleck inclined screener

The Terex Finlay 693+ Spaleck is the ultimate in mobile fine screening and separation technology. At the heart of the plant is an innovative 2-deck German designed and constructed high performance aggressive screenbox with state of the art flip flow technology on both the top and bottom decks guaranteeing first class screening of difficult materials.

Its processing capabilities and application flexibility make the machine the ultimate tracked mobile solution for the processing and separation of recycling materials such as incineration slag, shredder light and heavy fraction, scrap metal, electronic scrap, compost, clay, quarry dust, agg-lime, plastic fractions, biomass, topsoil, ore and aggregates etc.

Key Features

- Unique flip-flow on top and bottom deck guarantees first-class screening, even for difficult material.
- Double deck screen box, each deck 5.9m x 1.53m (20' x 5').
- Non blinding screening mats equates to less contamination.
- Dynamic wear resistant screening mats allow an efficient

The machine was demonstrated working in an agg-lime application and was launched in Q2, 2015.

New Crusher Prototype previews

In addition to these machines there were also two new two crushers previewed to customers at the event; I-140 impact crusher and C-1540S cone crusher. Both these new mid-sized machines will be launched in Q4, 2015.

Key features of C-1540S cone crusher

- Fuel efficient direct drive transmission via clutch.
- Hydraulic tramp relief with automatic reset protects the chamber and minimizes downtime.

- Metal detection system on the feed belt with 'auto-stop' protects the cone from tramp metal and the purge system removes contaminants from the machine.

Key Features of I-140 impact crusher

- The ease of material flow through the machine has greatly improved with each component increasing in width as the material moves through the machine.
- Fully hydraulic assisted apron setting features makes adjustment of the aprons convenient and efficient.
- Heavy duty vibrating feeder (VGF) with integral pre-screen removes dirt fines

Rik Kiddle, Global Sales and Business Development Director, commented on the event:

"It was a huge pleasure to welcome so many customers to yet another successful Terex Finlay open day. This was our 5th open day in as many months and to greet so many customers and have the opportunity to demonstrate the exciting new machines we have developed in aggregate and recycling applications is very rewarding. Our new product developments this calendar year have been unprecedented. We have launched four new crushers and two new screeners so far this year, with another three crusher models to launch by the end of the 4th quarter, 2015. We place a lot of emphasis on listening to what our customers' tell us they want and need day in day out and judging by the feedback that we have received on all the new equipment we are definitely on the right track with our new product development initiatives."

For further details on the Terex Finlay product portfolio and services please visit our website www.terexfinlay.com



www.hub-4.com/directory/305

Terex Finlay I-100RS impactor



Terex Finlay J-1170AS



Terex Finlay I-140 impactor



Steelweld Fabrications Ltd - a leader in quality laser cutting and fabrication services

With over 30 years' experience, Steelweld Fabrications Ltd 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.

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.

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 two state of the art 13m spray booths 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, Investors in People.

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. Alongside an already existing culture of lean manufacturing and continuous improvement, there are plans to further expand the engineering support department.

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.

 www.hub-4.com/directory/16734



POWERED TO DIG



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 Group UK Ltd
Duxford, Cambridge CB22 4QX
Telephone: 01223 836636 Fax: 01223 832357
sales.vcegb@volvo.com www.volvoce.co.uk

Volvo Construction Equipment



Terex install there first Modular Crushing Solution in Tasmania

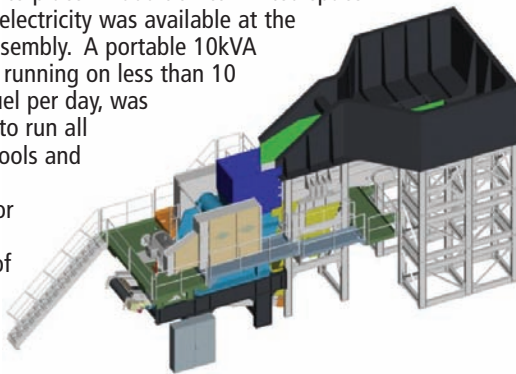
Terex MJ47 Modular Plant has been designed to meet the needs of a large capacity Primary Crushing Station with minimal civil works, assembly time and cost. The Module comprises a large truck dump hopper, Terex Jaques ST47 Jaw Crusher, Terex Simplicity Vibrating Grizzly Feeder, Plant Chute-Work, Discharge Conveyor and a Galvanized Steel Structure.

Terex has successfully installed its first MJ47 Module at the Hanson Flagstaff Gully Quarry in Lindisfarne Tasmania. The module included hopper wings, extended hopper and discharge conveyor and a rock breaker structure with walkways. The entire Module was easily transported in 40' shipping containers direct to site; a small three man team from Terex Jaques, assembled the modular station on-site over a 3 week period.

The installation site was positioned approximately 200m above the existing processing plant at Lindisfarne, overlooking the gully below. Access was via a 1.2km dirt road. Incomplete earth works did not allow direct access to the construction pad with heavy haulage transport or for a suitable set-down area for heavy equipment and shipping containers. All components would need to be hauled up the access road in stages during assembly. These constraints would have presented a significant challenge to building a typical fixed plant in this location.

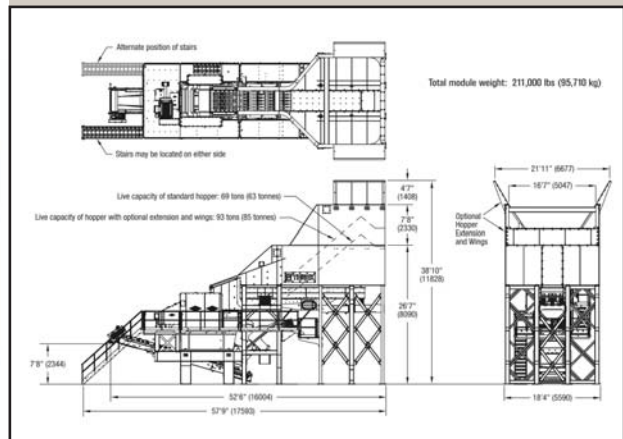
The Modular Plant's pre-assembled sections allowed the team to load individual sections onto a smaller truck for transport to the assembly area. A 16T mobile crane was hired to simply lift components directly from the 40' shipping containers.

A testament to the MJ47 Modular Plant design is the minimal tooling required for assembly. The entire plant was assembled using standard tools provided from a single service vehicle on site. A 40T mobile crane was brought in to lift the various sections into place. In addition to limited space no mains electricity was available at the time of assembly. A portable 10kVA generator running on less than 10 litres of fuel per day, was sufficient to run all required tools and an air compressor for the duration of the project.



PLANT DESIGN:

Plant Rated Capacity:	350tph
Loading:	Truck Dump Hopper (85 tonne live capacity)
Feed Size:	1,000mm x 800mm x 600mm (max)
Feeder:	Stepped Deck Vibrating Grizzly Feeder
Bypass:	Grizzly Bars (100mm Aperture)
Jaw Power:	150kW
Feed Opening:	48" x 36" (1,220mm x 915mm)
Jaw CSS:	125mm (nominal)
Jaw Output:	200mm (nominal)
Discharge:	1200mm wide skirted conveyor (15kW motor)



MODULE FEATURES:

- Bolt together on-site, quick setup time with basic tools
- Robust weather-protected IP55 control panel with user-friendly manual/automatic control
- Pre-wired "plug and play" design, minimal on-site wiring
- Emergency Stop Station
- Galvanized/painted steel structure
- Galvanized steel walkways, stairs and guard rails.
- 150kW Terex Jaques ST47Jaw Crusher
- Terex Simplicity 1.3m x 7.3m Vibrating double-deck grizzly feeder
- 1200mm wide fully skirted discharge conveyor
- Optional Rock Breaker Structure and walkways
- Optional extended hopper and wings to increase live capacity to 85 tonnes
- Entire module transports in standard 40' shipping container



www.hub-4.com/directory/8597

SCREENING EFFICIENCY...

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Our product range provides an extensive selection of vibrating equipment including all types of vibrating screens, vibrating feeders, vibrating grizzly feeders and foundry equipment.

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- Horizontal screens
- De-Watering screens
- High Energy screens
- Widescreens
- Banana screens
- Recycling finger screens
- Mobile screens

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Wentvalley Aggregates feel the benefit of a GIPO/McCloskey production line

GIPO R170FDR feeding the McCloskey R230 Scalper which feeds the McCloskey C44 Cone Crusher

Wentvalley Aggregates & Recycling Ltd are suppliers of quarried limestone products which include single size and primary blended products. Products are supplied to merchants and manufacturers within a 50 mile radius of their operation which is based near Wentbridge in West Yorkshire.

Recently the company have invested heavily in new crushing technology including large jaw and cone equipment alongside a modern fleet of large screening plant which is capable of handling in excess of 600 tonnes an hour to ensure all our products are always available for our customers.

In the last twelve months the approved distributor for GIPO and McCloskey crushing and screening equipment - Aggregate Processing & Recycling Ltd (AGG-PRO) has supplied the company with an array of McCloskey machines which have included a McCloskey J45 Jaw Crusher, C44 Cone Crusher, S190 - 3 deck screener, R230 Scalper and a TS4065 stacker.

To add to this machine supply Went Valley Aggregates have also taken delivery of a GIPO 170FDR Primary Impact Crusher which is now the HUB of the present aggregate processing operation.

The GIPO R170FDR heavy duty tracked impact crusher.

GIPO impact crushers have two impact walls and have infinitely variable adjustment of the rotor speed which simplifies the processing of the feed material. The proven fully hydraulic actuation concept enables the machine to handle reinforced concrete, asphalt, building rubble, natural stone, coal and blast furnace slag.

The extremely powerful GIPO impactor supplied to Went valley Aggregates is driven by a Caterpillar EURO Norm 2 standard diesel motor and is equipped with a machine chassis with track-laying gear. A high specification includes a power pack, feeding hopper, feeder channel with integrated pre-screen or separate pre-screening, conveyor feed channel and crusher conveyor belt. Additionally, the GIPO R170FDR impactor has a variety of additional equipment, side conveyor belt, permanent magnet, extended radio control, belt weigher and water spray.

Repositioning of the machine on-site presents no problems for Wentvalley as it can be comfortably operated from a wheeled loader or excavator with radio control.

Single size and aggregate production

The line-up of McCloskey machines with the production line is impressive and features the C44 cone, the R230 scalper and the TS4065 stacker for the single size and aggregate production.



McCloskey R230 Scalper

Euan Marriott - Quarry Foreman explained, "Operating as the primary crusher the GIPO 170FDR crushes and feeds to the R230 scalper which removes a 3" product with oversize going forward to the C44 cone crusher to produce a type 1, the + 40 crusher run that comes off the R230 then goes through the process with the flat deck screeners to produce 40/20/10mm and dust.

This new processing line has increased the production up to around 700tph."

The McCloskey R230 scalper which receives material directly from the GIPO 170FDR is designed to provide uncompromising production levels for heavy duty scalping operations.

Driven by a 225 HP CAT C6.6 Tier III engine, the R230 is capable of operating as a stand-alone plant producing finished product, or as a primary scalping component to the very largest of portable crushing spreads. The duty of the McCloskey C44 cone crusher at the Wentvalley operation is to produce type 1 from the R230 feed. Incorporating a TelSmith 44" cone the C44 is driven by a CAT C13 430hp power unit. The C44 offers high material capacity and throughput, large stockpile capacity and pushes the boundaries of industry performance within the processing operation.

Receiving feed from the R230 the McCloskey TS4065 Stacker stockpiles 40/20/10mm and dust. A 40" x 65" mobile stacking conveyor the TS4065 allows quick and easy movement with minimal effort and incorporates an ingenious twin fold design giving it the smallest transport footprint of any machine in its class and boasts a five minute on-site setup time.

Featuring an adjustable feed boot which allows the hopper side to be raised, impact is reduced when fed from screening plant side conveyors. Powered by a 49hp (36.5kw) diesel engine the TS4065 is capable of a stockpile height of 25'-10" (7.88m) at a peak rate of up to 600tph.

Additional products

Additional products on the Wentvalley processing line are produced through the McCloskey J45 jaw crusher and S190-3 high energy vibrating screener. The J45 high capacity jaw



McCloskey J45 Jaw Crusher

crusher utilised for additional product production features a true 45" x 27" jaw, with both level and load sensors to ensure the most efficient material handling across applications. Measuring 14.85' x 7.75' the J45 hopper boasts close to 9 cubic yards (6.8m³) capacity.

A 5'x10' screenbox features McCloskey "High Energy" technology, and the feeder is available with an independent pre-screen option. The J45 jaw crusher features a large gap between the crusher discharge and the main conveyor feed boot to eliminate bottle necks and bridging. Easy to move from site to site, the J45 crusher can be on-site and operational in a matter of minutes with folding hoppers and conveyers.

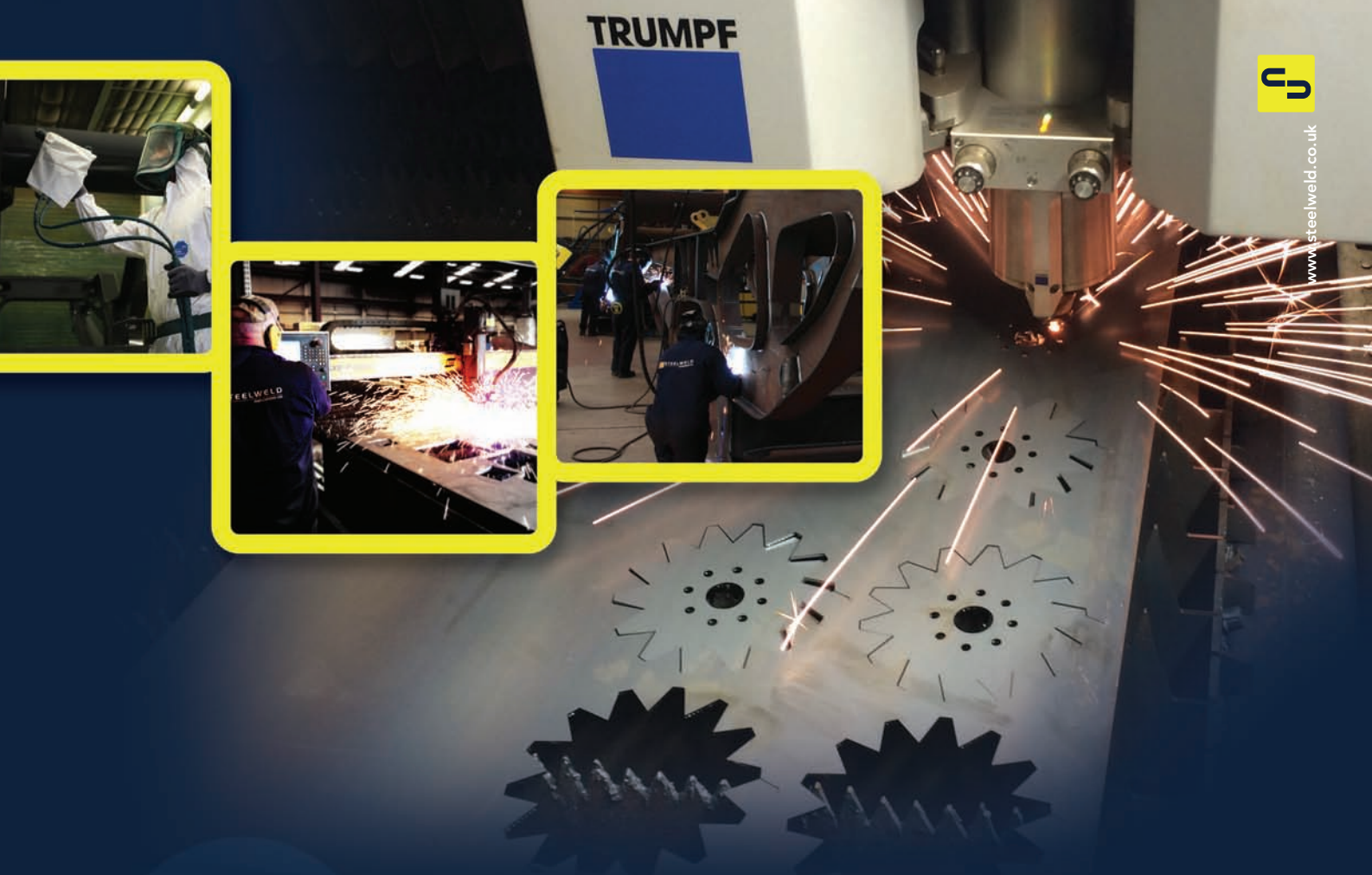
Working with the J45 on the production of additional products the McCloskey S190-3 offers a range of customer focused features as standard, whilst pushing the industry production performance standards by providing the most advanced 20' x 5' portable vibratory screening plant in production today. The S190's unique High Energy Screenbox design provides optimum screenbox dynamics to give output levels that place the S190 in a league of its own.

Features such as the adjustable screenbox angles allow adaptability to a wide range of materials including quarrying, crusher circuits, sand and gravel, coal screening, topsoil, and woodchip. Having the highest grade specifications and component parts, the S190 is easily the aggregate leaders' number one choice for quality.

Russell Meakin - Director, commented, "Basically the previous machines we had were not up to the job! After a GIPO demonstration the decision to invest in the 170FDR was an easy one. The combination of the GIPO 170FDR and the McCloskey machines all works magnificently and we are very pleased. We have a first class relationship with AGG-PRO who provide us with a first class service, it's a great experience. With a very busy business it's essential that the equipment is reliable and cost effective, which is exactly what we now have."



www.hub-4.com/directory/33



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Steelweld Fabrications Ltd is a state of the art facility located in Cookstown, Co. Tyrone. We pride ourselves in the quality of our products, our competitive pricing and our exceptional customer service. Our modern manufacturing facility coupled with our Engineering function means we have the versatility and innovation to meet our existing and new customer requirements.



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Maximus unveil their new 1100 Jaw and 1000 Cone at a two-day event in the UK

Maximus invited the HUB along to see the unveiling of two brand new machines, the new 1100 Jaw and 1000 Cone Crusher. The two-day event hosted at the JCB Kevin Quarry in Staffordshire was a great success with the first day dedicated to their growing network of worldwide dealers and the second, a working customer demo day.

The machines that were put through their paces were the new 1100 Jaw and 1000 Cone Crusher, the 518T Sizing Screen and the 516 Scalper.

We looked at the compact 33 tonne 1000 Cone Crusher which was especially innovative in its design, with the whole machine serviceable from ground level. This safety and emission compliant cone crusher has features such as a sliding front conveyor which moves out 1200mm which is enough to give superb maintenance access underneath the cone, and all major components are removed from above, with the feed conveyor tilting back to a vertical position allowing for quick and easy access. An automatic constant tension belt system on the feed conveyor allows for increased belt life and includes a friction strip which traps the belt meaning that material landing on the belt doesn't pull any voids. The assembly on the front of the machine is bolted to the chassis and so can be replaced with alternative arrangements for recirculation on post screen, so has years of development possibilities.

The cone has been co-developed with CMB International, a leading designer of cone crushers globally, and has a throughput of around 150 tonnes per hour and can be set for three variants of product by changing the support bolt giving either sand, medium course or an extra course product. Moving forward a new one-piece upper frame is being developed which features hydraulic adjust, and will be available soon. This means that by simply disconnecting the hydraulic cylinders the top of the cone can then be lifted off in one piece.



Left to right: Hubert Watson, Global Sales Manager of Maximus and Shane O'Neill, Managing Director of Maximus

We spoke with Stu Gamble, the key North American dealer for Maximus "I have been in the industry for over 22 years, my last role was VP of one of the major global suppliers of mobile crushing and screening equipment, for the United States. I have known Hubert Watson for over ten years now, and after leaving my previous position, I had the key opportunity for a meeting with Hubert to discuss an exciting idea - Hubert wanted me to bring Maximus to America".

"So, having shipped over a new 409 scalping screen for extensive testing, we took a space at AGG1 in Baltimore in February, and we took the machine to the show. I couldn't believe the response we got, we had people climbing all over it, and wanting to sign up as dealers there and then, it was great. You only have to look at the machine, it's well-built, it's beefy and it's tough. We then took it to New Jersey to a potential new client, who was looking at other equipment, for him to run and see what he thought. He ran it every day, with no problems, and he tested it for a total of 90 days and was extremely happy".





The new 1100 Jaw Crusher



Maximus 1000 Cone

"After that, sales grew via word of mouth and recommendation and in a 6 month period we sold over 20 different models across the US, and that's without any advertising. We then decided to run the customer open day here in the UK and the response was extremely positive with over 14 clients making the trip. One of my clients, Nick Jones is here right now and is buying the 518 and 516 to take back to California".

"What I love about Maximus is that Shane, Louise and Hubert always give us a very high quality product, but they also always give us a fantastic backup service, I can pick the phone up at 5pm US time and still have someone answer the phone and come up with a solution to a problem".

"When you can enter a new country with a brand product line and you can sell to guys in the Mid-West of the US, as they really don't believe anyone, then you are doing something right. We sold Anchor Stone a new machine in March, and due to a massive snow storm, we were en-route to them to commission it when we got a phone call explaining that they already had it up and running, and that's testament to how easy these machines are to set-up and run."

Nick Jones from California added "I like the fact that the machines are built heavier, and things like the cat-walks are not folded down and they are galvanized, there are just more refinements to these machines." Stu added "Maximus have the heart, the expertise, the drive to make it better and they listen to their customers".

Taylor & Braithwaite, dealers for the North of England & Scotland, were also on site to support the Maximus Open Day.



Maximus 518T Sizing Screen

Mr Jaime McGlinn, the new sales manager, had a number of key influential contractors who were suitably impressed by the build quality of the Maximus product portfolio.

Mr Shane O'Neill, M.D of Maximus commented, "we have had a lot of interest and received lots of positive feedback from many visitors. Maximus would like to express their thanks to all dealers who attended, to JCB for the use of their quarry and also to all the visitors who attended over the 2 days that made the 1st open day a complete success"

For more information please visit
www.maximusscreening.com or
www.maximusnorthamerica.com

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E: birtley@hardoxwearparts.com
www.msttracks.com

An earthmoving story.. MST Group and Hardox: Forging a strong partnership



When it comes to replacement parts for earthmoving and construction machinery, the MST Parts Group is the 'go-to' name for thousands of customers in the UK and beyond.

Over its 50-year plus history, the MST Group has transformed itself into a 'one stop shop' for customers looking for high quality undercarriage parts, rubber tracks, bucket teeth, wear plates, expander pins and buckets and attachments.

The company has attained that position by a fast and effective response to customer needs, investment, innovation - and a strong partnership with SSAB Hardox.

It was back in 1963 that the original Midland Steel Traders Ltd was first founded in Walsall by Ken Whitehall before relocating to the North East. From its beginnings as a small steel stockholder, the company has now grown into a thriving multi-site business, while still remaining under the direction of the Whitehall family.

MST celebrated another major milestone in 2013 when it became a Hardox Wearparts Centre. The partnership with SSAB has further strengthened its reputation for supplying high quality wear parts and service throughout the UK and the expanding world markets.



Nationwide coverage



Today, the MST Group is still partly managed by the Whitehall Family and has a turnover of £14.5 million. It employs over 90 staff, across four stock and service workshops located in Durham, Glasgow, Birmingham and HSM Buckets in Sunderland. Half of the workforce is based at the Durham head office where the 120,000 sq ft facility includes two modern factories, each with 12,000 sq ft of manufacturing space.

The 10,000 strong customer base includes most of the major plant hire, civil engineering, construction, quarrying and demolition operators in the UK. At any one time, the MST Group holds £3 million worth of stock, including parts to fit over 10,000 UK machines, makes and models.

A team of ten highly trained sales engineers cover all parts of the UK from Cornwall to Scotland, carrying out on-site inspections and supporting customers. Crucially, all of these engineers have worked within the industry, gaining in-depth hands on experience of the industry, as well as being knowledgeable sales people.

MST also operates a fleet of five fully equipped lorries fitted with hiab cranes to support the group's nationwide collection, fitting and delivery service.

Hardox

MST Group's partnership with SSAB, as the producer of an exceptional wear plate material, has been one of the lynchpins of its success. The company specialises in the use of Hardox high strength steels to manufacture undercarriage parts, bucket and attachments, wear parts, rubber tracks and buckets repairs for earthmoving machinery.

Over the past 40 years, MST has also become the first call for machinery spare parts and is the UK's leading undercarriage parts supplier, stocking a comprehensive range of track chains, track shoes, rollers, sprockets and idlers for most tracked machines in the world.

"Whether you're looking for undercarriage parts for the smallest mini excavator or the largest mining machine, it's virtually guaranteed that we'll be able to help you," says Rory Whitehall.

MST has also developed its own range of highly durable Minimax excavator rubber tracks. These tracks use jointless steel technology and are manufactured from the highest quality rubber compound to ensure maximum wear life and durability - with guaranteed quality.

Customers also rely on MST for wear parts to help reduce the effects of hard wearing applications on excavator and loader buckets. In the construction business, a fast turnaround is critical to customers' profitability so items such as cast bucket teeth and adapters, wear packages, wear blades from Hardox steel and wear plates are all available for next day delivery.

The MST Hardox made-to-order service has been another stand-out success, with increasing demand for high quality buckets and excavator attachments designed to suit customers' specific requirements and application. All the high strength steel buckets and attachments are manufactured solely in the UK and are designed to work in some of the world's toughest environments.

Manufacturing Facilities

MST Parts has made significant investment in its manufacturing facilities, to give it the capacity and flexibility to produce high strength parts that meet customer needs and will withstand long service in some of the world's toughest environments.

The Parts centre is equipped with the latest cutting equipment to meet all customer demands including four Gas Profile cutting tables with capacities of 6 x 2.5 m or 10 x 3m. The Plasma Cutter can handle units of 3 x 2 m.

The range of modern machining equipment includes a 60" vertical borer, Lathe with a 350mm swing x 1500mm travel, and a Haas 3 axis milling / Drilling machine, and the facility boasts a variety of MIG based welding equipment.

Repair Service

MST offers a complete bucket reconditioning service for all sizes and types of buckets for both excavators and loading shovels. Hardox wear plate materials are used in all the bucket repairs, to actually exceed the quality of the original bucket. The service also guarantees a fast turnaround to avoid machine downtime.

"We have been reconditioning undercarriage parts for over 40 years, so we are confident we can repair customers' tracks, rollers, sprockets and idlers in the most economical manner and to the level of quality they expect," comments Rory Whitehall.

MST can even provide 'spare' buckets and attachments to plant equipment to save any downtime and significant loss of money during manufacturing or reconditioning customers wear part components.

The Hardox Partnership

Since it became a Hardox Wear Centre in 2013, MST has used SSAB Hardox as a driver in the development of products for industries such as Construction and Earthworks, Quarrying and Mining, Forestry and Land Drainage, Waste and Recycling and Farming and Agriculture. The high quality Hardox product range includes rock buckets and excavator buckets, pulverisers and grapples, to dump trucks linings and skip bodies.

With the use of Hardox wear plate, combined with its expertise and extensive knowledge, MST Parts can even 'reverse engineer' wear part components and improve the overall design to extend the parts' operational life.

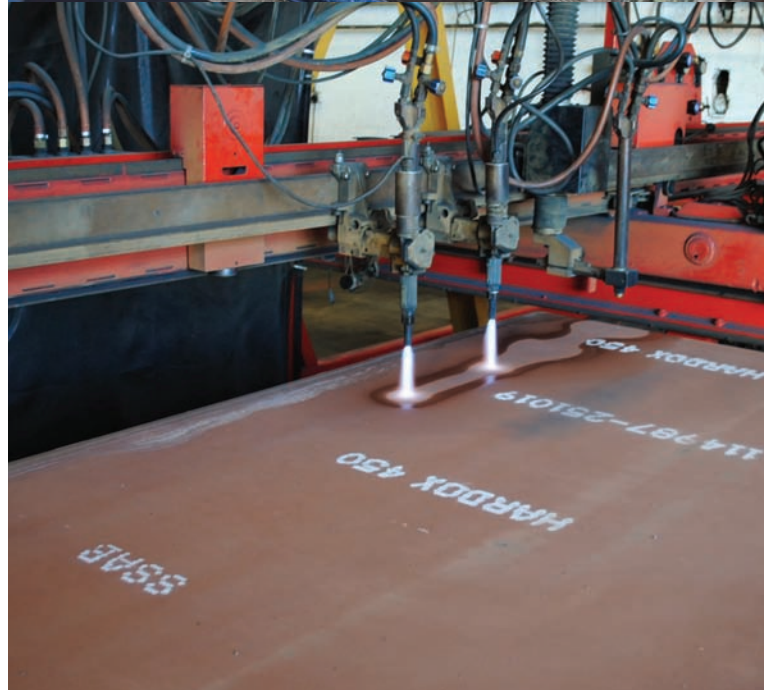
Training

As a Hardox Wear centre, MST Group also takes full advantage of the support and training available from SSAB and passes on the benefits to customers. Undertaken in Sweden at the HQ of SSAB, this training is designed to help HWP Centre staff provide customers with the most effective solutions to their wear parts requirements. The internationally attended training events also give Hardox Wear Centre staff the opportunity to share knowledge gained from a diverse application base of customers around the world.

Guaranteed quality

The MST Parts group enjoys the benefit of being associated with the strong Hardox Wearplate brand. In turn, the Hardox name comes with the guarantee of excellent product quality, giving customers complete confidence in the continuity of product quality.

"Hardox steel has become a great tool that helps us to provide effective solutions to many of our customers' problems," says Rory. "Our partnership with SSAB benefits our business and our customers' business directly, on a daily basis and long may it continue."





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G A Smith increases Bell ADT's to 1/3 of it's fleet

Bulk handling specialist G A Smith Ltd has solidified its relationship with Bell Equipment following the purchase of three B30E Articulated Dump Trucks (ADTs), which brings the total number of Bell machines in the company's fleet to 10, representing one-third of the G A Smith fleet.

The company only began its association with Bell in 2013, but the consistently excellent performance of the Bell ADTs has impressed managing director, George Smith.

"Bell is good on fuel, good on service and good on reliability," he explains. "Feedback from drivers has also been positive."

Initially, G A Smith ordered four coal trucks from Bell - customised B40Ds fitted with a specialist coal extension - which George Smith confirms have been "bomb-proof". They have been running extensively in a demanding environment without any significant downtime, giving us every confidence that standard Bell ADTs would serve us well for contract and hire work."

Having brought in its first three B30Es in 2014, G A Smith has repeated the order to bring its total number of Bell machines to 10 - six B30Es, plus the four coal trucks.

The latest additions are already hard at work in the field on a variety of contracts, reflecting G A Smith's growth over the past few years.

"We've been very busy and work is progressing steadily, so it makes sense to invest in a reliable, fuel-efficient brand like Bell. The company takes pride in every last detail, even down to aesthetics; they produce one of the nicest looking trucks on the market."

Nick Learoyd, Managing Director of Bell Equipment UK, comments: "G A Smith was relatively unfamiliar with Bell when we began discussing their needs two years ago. The rapid growth of Bell within their fleet to 1/3 of its machines reflects the quality of manufacture and service across our range."

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Helping drive development in Middle East roads projects

Al-Mohsen Engineering Co., Qatar is one of the country's leading specialists for the supply of aggregates to major construction companies currently involved in Qatar's many infrastructure projects. While the company was established in 2012, Al-Mohsen has already become a huge player in the construction segment thanks to its ability to supply large volumes of high quality aggregates to the market. They have invested in a range of Powerscreen rock crushing and screening equipment to meet the aggressive aggregates demands of huge local industry players involved in some of the most ambitious road development programmes undertaken in recent decades. The first two machines Al-Mohsen purchased from local Powerscreen distributor, Arabian Agencies Co. (ARACO), were the Powerscreen® Chieftain 2100X mobile screen and Powerscreen® Trakpactor 500 impact crusher.

As their customers' demand for quality aggregates has increased, Al-Mohsen has taken delivery of two further Trakpactor 500 and a Trakpactor 320 impactor, two Chieftain 2100X screens and a Warrior 2100 heavy duty scalping screen.

Operations Manager for Al-Mohsen, Mr. Mohamad Naji, said, "The machines are excellent, we have had a great experience with Powerscreen. The equipment can sustain intense and heavy work for long hours and is very productive. We find the Trakpactor 500 impactor easy to operate and to service when required. When asked to expand on this he added, "the efficiency, productivity and uptime of the Powerscreen equipment has a huge impact on our daily activity and allows us to meet the needs of our clients on time which is the ultimate goal."

Global equipment manufacturer Powerscreen also places a strong emphasis on meeting clients' needs. During a recent visit to the site where the equipment is working International Sales Director, Stephen McCartney commented, "Powerscreen has had a strong track record in Qatar and in the wider Middle East region for many years where our machines are well known and well respected. The considerable investment by Al-Mohsen and the positive feedback they have provided since taking delivery of their machines serves to underline this. A strong relationship with our customers and distributors is important to us. We want to make sure that customers get high quality machines which are delivered on time. We are proud that our equipment is working in the construction of some of the most ambitious infrastructure projects in the region, the legacy of which will last for many decades."

Orbital highway and truck road

Al-Mohsen has provided essential materials to the J&P Group construction company for use in their ongoing Orbital Highway & Truck Road project which is expected to reach completion in 2017. The Orbital Road project will create a vital North - South connection which bypasses Doha City; thus reducing traffic and congestion within the Qatari capital. The J&P Group are responsible for the design and construction of 45km and eight lanes of road network including four major interchanges and all related overpass/underpass structures.

The feed material for the machines is excavated limestone boulders which are transported from Lusail (north-east of Doha) to the road construction site where Al-Mohsen's Powerscreen plant is working for 20 hours daily. The Powerscreen machines are configured to deliver aggregates of 0-70mm (0-2³/₄") and 0-50mm (0-2"), and the plant reaches 7,000 tonnes of crushed and screened material per day.



In addition to the J&P Group, Al-Mohsen also provide services to other major players such as Midmac, Al Darwish Company, Al Badr Group, Doha Logistics, ATM Group, Bin Tawar and Yuksel Midmac. Al-Mohsen also supply aggregates to the China Harbour Engineering Company for their contract in the development of the major East West Corridor project. When the East West Corridor is finished it will provide important strategic links with southern Doha and will connect the Orbital Highway & Truck Road and the new Hamad International Airport.

Mr Naji also commented, "The support we receive from ARACO, especially from the sales and customer support teams is highly commendable. With the excellent performance of our machines, Al-Mohsen is now considered mature in our business field in the Qatari market."

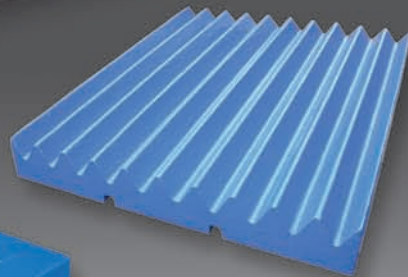
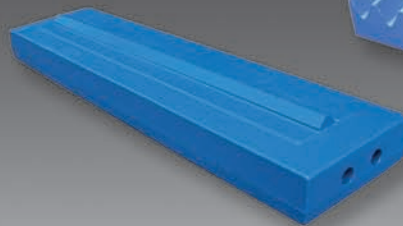
ARACO has been Powerscreen distributor since 2009 and is a leading provider of commercial equipment in Qatar, backed by strategic investments and a strong product portfolio. Araco's philosophy to strive for continuous development and delivering the ultimate customer support is backed by its 46,000-sqm facility with a team of highly-trained technician and service personnel who are available 24 hours a day to provide impeccable after-sales support. Speaking of the projects in which Al-Mohsen is involved, General Manager for ARACO Mr. Antoine Azar said "We have a very strong working relationship with all of our customers. Our technical and customer support is one of our business's core strengths and we enjoy seeing our customers succeed. We are very proud to be involved in the construction of such important infrastructure for Qatar."



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First Volvo L250H goes to Glendinning

E & JW Glendinning Ltd has taken delivery of the first Volvo L250H wheeled loader to be sold in Great Britain which has been put in charge of feeding the primary crusher at the Company's Linhay Hill Quarry, Ashburton, Devon.

The new 35 tonne loading shovel represents an addition to the Glendinning fleet at Linhay Quarry and was strategically chosen to take charge of loading the primary mobile crusher on site. "To be honest, the L220H we took delivery of at the end of last year has been doing a good job feeding the primary, but it is working hard all of the time which in the long term isn't really viable," comments Operations Manager Richard Webb. "The L350F on the other hand is too big for this part of our operations so we took a detailed look at Volvo's relatively new L250H model. With the larger 5.7m³ bucket, increased operating weight and horsepower we, together with the team at Volvo, made a conservative calculation that the machine will provide us with an additional 75000 tonnes per annum or around an extra 42 tonnes per hour using only one additional litre of fuel over the L220," he continues.

The L250H features a 13 litre stage IV final engine developing 394hp in a relatively low rpm range of between 1100 and 1200 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.

The new Volvo L220H is a high production machine designed to increase productivity and profitability in heavy duty rock handling operations where short cycle times and high breakout forces are required. To this end the L250H, like its bigger brother the L350F sports a Z-bar loader linkage design. The high lift capacity enables fully loaded buckets to be elevated to the maximum dumping height in fast cycle times.

Specifically for Glendinning the new L250H has been equipped with a 5.7m³ heavy duty straight lipped bucket with teeth and bolt on segments. This combination of ground engaging equipment gives the machine an impressive breakout force of 323kN. The machine also benefits from an enhanced full turn tipping load of 23.5 tonnes thanks to the addition of Goodyear L5 tyres fitted to the rear and L3 tyres complete with Pewag chains to the front. Other features on the new L250H include CDC (Comfort Drive Control), Volvo's optional ride control or boom suspension system, a Lincoln auto lube system and an RDS 8000 weigh loader. Safety features including all round visibility aids such as sensor vision, blue strobes, white noise alarm and additional LED working lights are also included in the machine's specification.

This latest Volvo loader joins a fleet of predominantly badged Volvo loaders - one of which being a venerable L180D that has clocked up a staggering 34000 hours plus with the same original engine. It follows on from Volvo's 50 tonne flagship loader the L350F that was delivered in July 2013 for face loading duties and the L220H delivered in December 2014 which is now fully deployed in the stock yard area.



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Liebherr supplies new HTM 804 to S. Morris Ltd



Liebherr-Great Britain has secured a deal to supply prominent ready mixed concrete supplier S. Morris Ltd with a new HTM 804, which has been teamed with a LTB conveyor system and is currently the largest machine of its type at work in the UK.

Somerset-based S. Morris operates a variety of vehicles supplying aggregates, building materials and ready mixed concrete across the south-west and the HTM 804 joins other Liebherr products in the company's existing fleet.

The LTB 12+4+1 provides a 17m radius to deliver concrete exactly where it is needed at a rate allowing precision placement. The hydraulic support legs and folding belt system can be swiftly deployed enabling short on-site set-up times and with a hydraulically-driven delivery belt capable of speeds up to 3.2m per second, loads can be deposited as fast as required. Conveyor and drum operations can be remotely controlled via a handheld Bluetooth device so that the operator is able to oversee the safe delivery of material at the discharge point whilst retaining full control of operations.



As well as the LTB and HTM 804 combination being ideal for specific deliveries, the conveyor unit can also work in conjunction with other delivery vehicles to provide a cost-effective solution to delivery of larger quantities of material. Other truck mixers are able to deposit their loads directly onto the conveyor belt resulting in more rapid delivery times.

Manager of S. Morris's Taunton Plant, Ian Lamkin, explains that excellent service, reliability and build quality from a similar Liebherr unit made the decision to stay with Liebherr an obvious one. Regular operator John Trott explains how the new combination, which has been mounted on a DAF 8x4 chassis, is particularly simple to operate and very quick to deploy on site, "The system is very easy to control with the variable speed of the conveyor making it ideal for delivering the concrete precisely and cleanly."



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Euroblend is the authorised sole UK & Ireland distributor for Euromecc, which is the leading European supplier of mobile and turnkey solutions for the concrete and cement industries, having almost 40 years of experience.

With the continuous update of product design and high level of technological advancement Euroblend with Euromecc's product range continues to enjoy the internationally known recognition for quality and competitiveness that they deserve.

Euroblend with the support of Euromecc can develop new solutions, particularly in mobile concrete batching plants with its state of the art R&D and are introducing to the UK a number of new models to satisfy customer requirements. Euroblend can guarantee fast delivery, installations, production and assembly.

Euroblend Mobile Concrete Batching Plants

Currently the mobile batching plant models are divided into two categories, the first of which is the smaller output models with planetary mixers, - the Euromobil4 Fast 30 Fast 45 and Fast 60 with concrete outputs of 30m³/h 45 m³/h and

60m³/h respectively. These models are ideal for construction companies and/or small ready mix companies producing high performance and high quality concrete. The plants are often combined with block-making machines, drawing on Euroblend's experience and knowledge in the precast industry.

The batching plants consist of one unit, pre-assembled and pre-wired, transportable on an open-top 40ft container or on a lowering-bed trailer. The aggregate storage group, with total storage of 40m³, is divided into four compartments with double or single loading sides.

The second category is mobile batching plants with twin shaft mixers. This category includes the Euromobil4 Fast 80, Fast 100 and Fast 130, these have four storage compartments in line, they are able to ensure a high-quality hourly output capacities of 80m³/h, 100m³/h and 130m³/h respectively. Each plant is structured to allow for easy transportation without the need for special permits and minimal installation time. The aggregate storage group, with total storage of 95m³, is divided into four compartments with a single loading sides.

Euroblend Turn Key Static Concrete Batching Plants

All turn key solutions adhere to the customer's needs as the starting point, the design of the batching plant is then carried out with 3D-CAD modelling that drastically reduced the overall design and build time of the project, 3D modelling also allowed the plant design of the pneumatics, electrics, hydraulics to be reassembled, to simplify and optimise the on-site installation. Euroblend will communicate with you the customer to enable a thorough understanding of the work to be carried out within Euromecc's departments. Therefore, after a few meetings Euroblend can obtain the final project approval of design and specification so as the manufacturing phase can begin. Euromecc static plants are quipped with twin-shaft or planetary mixers and batch production technology, Euromecc batching plants offer several advantages over traditional batching plants, including belt or skip feed up to three discharge gates per aggregate bin, wear liners on the discharge gates, microwave moisture probe technology with limit switches on the discharge gates. In addition to the various technical solutions all the electrical controls are manufactured in house.

As proof of their capability and where Euromecc Concrete Plants are recognised as a world leader in concrete innovations they were awarded the contract to build a roller-compacted concrete batching plant for Ethiopia's Gibe III dam project. This meant the Euromecc plant being the sole supply of 800m³/h. RCC to the construction site 24hours a day, 365 days a year over a period of 4 years. Euromecc not only accepted the challenge but also met its targets effectively. For the production of roller-compacted concrete (RCC), Euromecc supplied two batching plants comprising two completely galvanised double-frame units. Each unit feeds two mixing towers with a total of four batching units and four independent loading points. A twin-shaft mixer with 6m³ of RCC yielded/cycle at a capacity of 200m³/h is installed at each loading point, for a total output equal to 800m³/h. In line with customer requirements, Euromecc's installation not only achieved but also broke daily production records.

Customisation

Customisation is a key competitive advantage for Euroblend enabling the company to advise and design changes to products before assembly. Working closely with customers from the start Euroblend is able to identify exactly what you as a customer would need to improve and get the most from plants.

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Total Engineered Solution from Siemens Continues Best Practice at Hanson Ketton

- **ROI within 14 months**
- **CO2 reduction of 771 tonnes to date**
- **Lower vibration and noise levels**

A control system/integrated drive system solution from Siemens at Hanson Cement's Ketton plant in Rutland has produced a number of significant benefits for the cement giant and has improved the operation's sustainability, in keeping with its record as a responsible UK manufacturer.

The clinker cooler upgrade project at Ketton carried out by Siemens has resulted in an annual CO2 reduction of 771 tonnes and over £86,000 saved in energy use, much of it through the use of variable speed drive technology and Siemens' integrated drive systems technology (IDS). Return on investment for Hanson has also been achieved in less than 14 months, with an additional environmental benefit: lower noise levels.

Full Siemens solution

The Siemens solution included the implementation of each of the drive chains, which formed the control system (CS) IDS total engineered solution. The total solution included six G150 Sinamics converters, ranging from 45 kW to 160 kW, and pressure differential instruments for PI loop control, interfacing into the current DCS system via Profibus. These particular converters used enhanced energy-saving functions. Insulated bearings were also fitted to the existing motors at the plant. Full power and control cable upgrades were also included, complete with full site installation and commissioning of the complete clinker cooler process. Siemens provided full engineering and project management of the turnkey solution and full technical documentation.

Trevor Jibb is Hanson's electrical engineer (designate) at Ketton. He was delighted with the benefits of the clinker cooler upgrade: "The significant energy savings we've already made, coupled with the reduction in carbon footprint mean that Ketton continues to be a great example of best practice within our Group."

An additional benefit to Ketton of the upgrade has been a reduction in noise levels and vibration at the clinker cooler plant, improving conditions for the workforce as well as for the surrounding environment.

Hanson Cement, which is part of the global HeidelbergCement Group, was the first UK cement producer to carry out annual environmental audits of its sites and the Ketton site, near Stamford, is a flagship in working with local conservation groups to protect the bio-diversity of the flora and fauna in and around its quarry.

Ketton has been a cement works since 1928 and is today one of the most efficient in Europe. By continuing to invest in modern plant and equipment the site aims for the increased use of alternative fuels to replace the traditional use of coal. Currently, around 60 per cent of fuel used comes from alternative sources such as meat and bone meal, solid recovered fuel from local authority waste and liquid chemical waste. Ketton also has a 12 megawatt solar energy farm, covering 20 hectares of restored quarry workings and generating around 13 per cent of the plant's annual electricity consumption.

Early return on investment

Siemens originally estimated the ROI at Ketton to be within 17 months and the energy savings to be £73,000, with the CO2 reduction at 651 tonnes per year, so the actual savings of £86,000, 771 tonnes in CO2 reduction and 14 months payback period were even better news for Hanson.

Siemens application engineer Gary Palmer was responsible for the upgrade project at Ketton: "The efficiency improvements we were able to bring Hanson at Ketton meant that the investment paid for itself in just over a year and is continuing to help Hanson make ongoing energy and CO2 savings well into the future. The additional environmental benefits have yet to be measured, but are also considerable, as they should include lower maintenance requirements of the mechanical and electrical infrastructure through reduced vibration."



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New Bardon Hill SF20/2 fabric filter installation provides increased exhaust and filtration capacity



Pulse valves within enclosure

The replacement of the existing fabric filter on the Bardon Hill Standard Havens drum mix plant presented a challenge to BG Europa (UK) Ltd. Aggregate Industries required the new installation to occupy the same area taken by the existing unit, whilst offering increased exhaust and filtration capacity.

The existing reverse air cleaning filter unit had provided several years of service, however the requirement for replacement provided the opportunity to increase capacity in preparation for the future upgrade of the drum mixer. With limited space available a bespoke solution was required to install the new filter unit within the footprint of the existing filter unit.

The BG Europa SF Pulsejet Filter allowed the opportunity to increase both filtration performance and available exhaust capacity whilst utilising the existing foundation fixings.

Using a pulse of compressed air the BG Europa SF filter generates a shock wave which cleans the filter bags. This advanced and efficient method of cleaning has been well proven in the field and does not encounter the problems associated with reverse air filters which suck atmospheric air into the bags to clean them.

The internal design of the pulse jet filter does not require provision for ducting channels within the filter body, therefore a higher density of cloth can be installed.

The new SF20/2 fabric filter installation in operation.

At Bardon Hill a total of 1280 x 500 g/m² Nomex type filter bags are installed in two ten module parallel filter units to provide a total cloth area of 1438m². Within the snap ring bags the zinc coated wire bag support cages each incorporate an integral venturi to enhance bag cleaning efficiency.

The pulse jet shock wave cleaning system sequentially cleans rows of filter bags whilst they are on line, ensuring that all of the cloth area within the filter is utilised at all times for efficient filtration. This is in contrast to the reverse air type cleaning method which takes up to 25% of the bags off line for cleaning.

An electronic pulse controller is installed within a dust tight enclosure mounted at the filter top and is pre-wired to each of the solenoid valves. This controller allows fine adjustment of cleaning pulse duration and frequency to suit operating conditions. Additionally a differential pressure monitor is installed to ensure cleaning is only performed when required,

thus reducing energy requirements and maintaining the bags at their ultimate cleaning performance.

The bags and cages are factory installed within the filter unit top sections to quicken site installation. The filter top is enclosed by hand rails with safety gate access and kicking strips. Within this area access to the bags and cages is provided through full width easily removed hatch covers.

The compressed air manifold for bag cleaning is housed within the filter body ensuring protection from the elements. This arrangement provides easy access from within the hand railed area at the filter top by removal of full-length lift-off covers. The solenoid valves are also fitted on the top of the manifold allowing unrestricted access for ease of maintenance.

Collected fines fall from the filter bags into a common pyramid hopper whose dimensions were designed to allow a support structure to be fixed down to the original foundation bolt nests. The project therefore did not require any additional civils works minimising both disruption and overall costs.

Regardless of infrequency of access the existing vertical ladder, which is a common feature of most existing filter installations, did not provide the degree of safety now expected within the industry. Therefore BG Europa supplied and installed stairways and rest platforms to allow improved access to the filter top, inlet ducting and exhaust stack from ground level.

Jason Broughton - Operations Manager, Asphalt/Bardon-Croft, commented. "With no operational issues since the installation, it has been a perfect replacement and what we expected. The BG Europa bespoke design minimized any disruption and overall costs with the extra stairway and improved access bringing everything in line with the current H&S requirements."

Fulfilling the project brief on time BG Europa has provided a modern system designed with safety as a key criteria. Additionally Aggregate Industries' facility now has the capacity and flexibility to allow future upgrade to new clean recycling technologies as they become available.



Rapidmix 400CW Sets Sail on New Belfast Harbour Development Scheme

Rapid International Ltd (Tandragee) has recently supplied local road contractor and quarry group Gibson Bros (Banbridge) with a new Rapidmix 400CW mobile continuous mixing plant. The Group will commence using the plant on the new Belfast Harbour Development Scheme. The new Rapidmix will provide the Gibson Bros Group with advantages to meet the demands and requirements of its future contracts. Gibson Bros will also add the Rapidmix to its existing fleet of rental plant available for short and long-term hire.

The new Rapidmix plant is currently on-site at Belfast Harbour, where Gibson Bros is undertaking development of the Victoria Terminal 3 Hinterland site for Belfast Harbour Commissioners. This 20,000m² pavement project will form an integral part of the harbour re-development when completed in February. A key part of the pavement construction will be the installation of a Hydraulically Bound Mixture (HBM). Semi dry mixes, such as HBM, are typically less economical to produce in a conventional static batch plant. The Rapidmix mobile continuous mixing plant solves this problem as it is specifically designed for semi dry mixes such as HBM's, ensuring a high output of high quality homogenous material at all times. The on board high speed Rapid Twin Shaft mixer contains chill cast steel mixing paddles which are intermeshed in a specially phased relationship to optimise mixing action, whilst maximising throughput.

The new Rapidmix 400CW plant produces high quality controlled mixtures for utilisation in a range of Civil Engineering applications - from airport runways and contaminated land treatment to dam construction and soil stabilisation. The mobile nature of the plant combined with the technically advanced design is most advantageous in meeting the supply and demand requirements on projects. The Rapidmix 400CW provides a cost effective solution on those on-site projects where high specification compliance coupled with a high volume fast throughput are critical.

Fully mobile and self-contained, the Rapidmix 400CW from Rapid International offers a complete plant powered by its own power source, with on-board compressor and generator. Fitted with a self-erecting system, using hydraulics, the plant can change from travel mode to fully operational within a few hours. Available with outputs of up to 600 tonnes per hour, the Rapidmix provides feed rates that are fully adjustable for the aggregate, cement and water systems.

The recently updated unit incorporates full weighing options for all materials - aggregates, cement and water - which means the new generation Rapidmix 400 CW offers record keeping that is automated, precise and detailed.

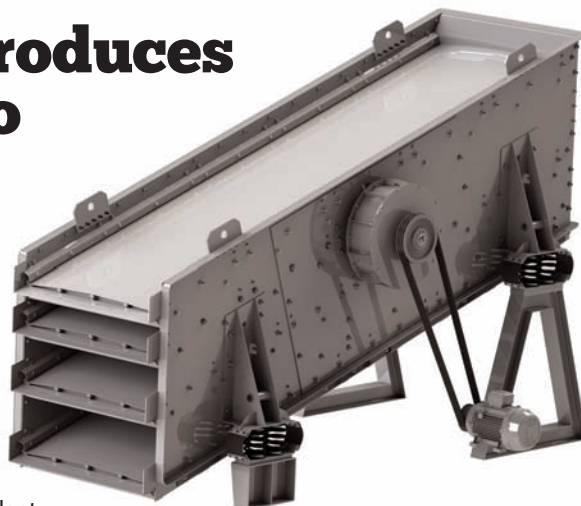


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CMB International introduces new asphalt screens to their portfolio

With modern asphalt plants demanding high capacity production of closely sized aggregates Leicestershire based CMB International have added a range of asphalt screens to their existing screen portfolio. Within excess of 20 years' experience the philosophy of CMB International has always been and remains customer driven. Continually evolving CMB aim to meet and exceed the requirements and expectations of the aggregates market.



Specifically designed to meet the demanding requirements of asphalt plant operations the new range of CMB asphalt screens offer an in-house bespoke replacement of an existing screen. CMB insist on critical measurements of the existing envelope, ensuring a good 'fit' and consequently minimising extra structural work required to accept the new screen.

To assist with the high temperatures generated within the screen bearings, CMB use high temperature grease that works with an auto-grease unit, which constantly "drip-feeds" the bearings with the high temperature grease. All high temperature seals are used within the vibrator unit.

Size ranges from 1.2 x 3m - 2.7 x 7.2m single, double or triple deck, depending on capacity requirements.

Where five products are required to supply five hot stone bins, the screen can be made with 3½ decks to produce the five products from a single screen.

CMB can also provide dust encapsulation to suit the screen and structure.

CMB International provides the complete solution to any quarry plant requirements. They are a manufacturer of their own feeders, jaw crushers, cone crushers, screens and conveyors. Additionally they carry a comprehensive stock of spares and offer on-site maintenance and modifications for your existing plant.



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CEMEX's bagging plant gets the DISAB treatment

CEMEX UK, one of the UK's leading building materials solutions providers, has been deploying DISAB SkipVacs to keep its new state-of-the-art, £3.5 million cement bagging plant clean and dust-free. Based at its Rugby plant site in Warwickshire, the new plant now provides CEMEX customers with cement in the new vacuum-sealed, plastic packaging.

Why was a SkipVac needed?

Unlike the old bagging process, the sophisticated plastic vac-packing process is housed within a building, and as the man responsible for CEMEX's bagging plant, Carlos Contreras recognized, this would need a very different approach to keeping the plant and building clean and dust-free.

Carlos explains: "Traditionally we'd have cleaned up manually so while the new bagging plant was being built, we researched online and found DISAB UK (www.disab.com) had the kind of cleaning solution we were looking for, one that can deal with both dust and larger spillages. It was also forklift portable, powerful and easy to use, and worked as a fully enclosed system."

How's the SkipVac performing?

Carlos is clearly delighted with the net results, as he comments: "The SkipVac™ is a really good and highly effective industrial cleaning solution. Starting with one, we have just introduced a second at the cement mills area and they're saving our operatives a lot of time compared with manual cleaning techniques employed. Furthermore, we've noticed that certain parts of the bagging plant like the palletiser need more attention when it comes to cleaning and removing dust. Using SkipVacs™ makes these tasks much more easily accomplished."

"The main advantage of the DISAB SkipVac™ is the time factor. For our operatives, using the SkipVac™ is a lot less hassle and a lot more efficient. I'd reckon that what would have been a day's work done by two men is now able to be completed by one in 3-4 hours. That means we can clean much more plant in one day."

Couple of tonnes of cement dust a week cleaned up and recycled

Carlos continues: "The cleaning is usually done on Sundays, and we will fill the SkipVacs' hoppers three to four times with the dust generated by a week's production and bagging. This equates to about two



tonnes which goes straight back into the production process, so there's no waste at all."

CEMEX and maintaining top standards of housekeeping

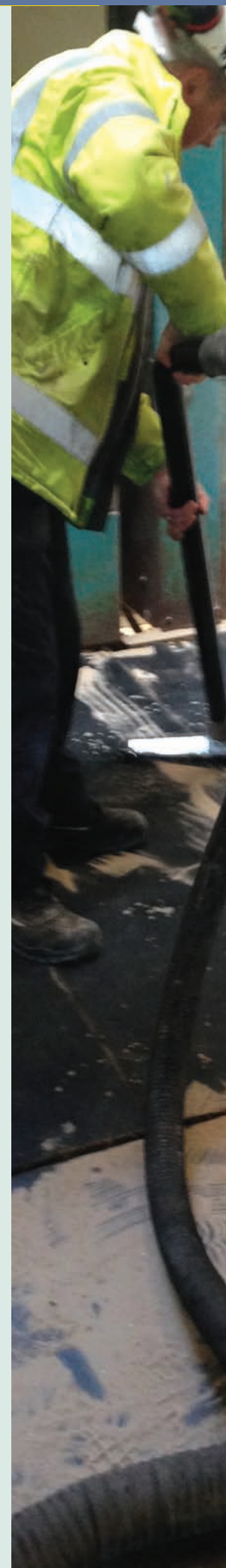
Carlos explains the company's position on insisting on the highest standards of operation: "For CEMEX," he said, "good housekeeping is one of our top priorities. In addition to our commitment to health and safety, the environment and sustainability, it's very important that every place of work is as safe, clean and well maintained."

"This greatly helps the mindset of our operatives, and shows outside audiences that CEMEX is actually demonstrating what we believe in and talk about. And it's obviously impressing customers who can see a very clean and high tech set-up which all helps to enhance the perceptions of CEMEX as a great company to deal with."

Reaching the places other things can't reach

Carlos has seen how the SkipVac's™ flexibility and reach is making cleaning much easier: "The SkipVac's™ vacuum suction power is especially effective at cleaning the parts that are awkward to reach or get at, or which are intricate and complex. A powerful vacuum makes dust removal from these difficult-to-clean parts easy, whereas traditional methods would be virtually ineffective."

"This has a number of benefits: it keeps our working environment clean and dust-free, and the plant itself can be maintained in a good and dust-free condition. The result is a much more efficient and longer engineering life for the plant."



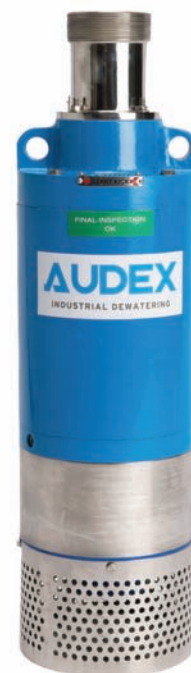
Time is Money in the Readymix Industry

Atlantic Pumps recently demonstrated their ability to supply industry at short notice when they came to the rescue of a readymix site, helping to avert a costly site closure.

The fast-growing Sheffield based pump distributor was contacted by Hanson's Justin Johnson, District Operations Manager for the Manchester area, after a submersible pump used to drain a recycled water tank failed, leaving the tank in danger of overflowing. This would have damaged the plant, breached the conditions of the environmental permit and caused costly downtime.

The Atlantic Pumps team had an Audex AS Series 3 inch - 5.5kW pump installed and operational on site in under four hours from Justin's initial phone call to their office!

In that period Atlantic worked remotely and on limited information - details could not be taken from the existing pump, coordinated with Justin for clarification on some essential points, specified the correct pump for the site, prepared a quotation, supplied delivery options and delivered the pump.



DISAB UK's support and service is top notch

Having contacted DISAB UK initially following his online research, Carlos was impressed by the expertise and advice he then received, initially from their sales engineer, as to which DISAB machine would provide the best cleaning solution for CEMEX's specific requirements, and then at the speed of response whenever a call was placed to DISAB UK itself. As Carlos explained it: "We've enjoyed brilliant support from the team at DISAB UK."



Audex submersible pumps have been developed for use in the toughest and most abrasive applications and environments. Specifically, they are in use by many of the world's largest aggregates and recycling companies, in the heaviest of industrial applications.

Commenting on the speed of the operation, Managing Director, Andy Smith said "It has been the guiding principle from day one at Atlantic Pumps that we respond to our customers' needs quickly. In this instance it was clearly demonstrated that rapid assistance to a customer's needs saved them from some large costs. With the ready-mix industry showing welcome growth, the uptime of a plant is more valuable than ever. We are here to ensure your business keeps working and delivering you a return on investment."

See how Atlantic Pumps can help your business. Call 0114 229 3144 or email info@atlanticpumps.co.uk. Atlantic Pumps can also be found on social media and have a large, ever-growing number of followers on LinkedIn.



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EIS Waste Say: “We Don't Know How We Worked Before Fitting Brigade's Systems.”

EIS Waste say they don't know how they ever worked before fitting Brigade's systems to their fleet of vehicles after not only reducing vehicle damage and false claims but also improving efficiency.

Based in Aberdeen, EIS Waste Services provide a collection, treatment, recycling and waste disposal service to the North East of Scotland. They operate 27 commercial vehicles including; refuse collection vehicles, eight wheeled rigid vehicles, skip loaders, front end loaders and hooklifts.

Initially Brigade's Backeye@360, supplied by Dingbro Ltd and fitted by Taylor's Auto Electrical, were fitted solely to improve safety and reduce vehicle damage. Backeye@360 is an intelligent camera monitor system designed to assist low speed manoeuvrability by providing the driver with a real-time surround view of the vehicle in a single image. The four wide angle cameras enable a better view of the hopper and beyond than conventional cameras.

Then the company decided to fit mobile digital recording. The Backeye 360 cameras are connected to Brigade's MDR-304A digital recording system enabling EIS waste to review footage in the event of incidents.

EIS Waste's Transport Manager, Raymond Henderson said: “In one incident our driver was on a dual carriageway and the lorry driver in front was driving erratically, speeding up and slowing down continuously. Our driver decided to overtake the vehicle to avoid it. He pulled into the outside lane to overtake and as he did the third party driver left their lane and bounced into our vehicle, ripping the side of their lorry. The third party driver blamed our driver. I sent a copy of the MDR footage to their transport manager who withdrew the claim.”

To repair the specialist aluminium side would have cost EIS Waste £60k or gone knock-for-knock through insurers, but EIS were able to retain their insurance premiums with concise evidence they were not at fault. Being able to exonerate drivers from false claims and accusations of driver behavior also prevent internal investigations and court action, saving time and money.

Digital recording can also improve safety in the less obvious ways. Raymond explains: “EIS Waste provides a refuse collection service. In one incident a customer was emptying fire extinguisher powder into the bins. Our driver got covered in the powder which can be dangerous especially if inhaled. We were able to identify who was doing it and tell them what they were doing was wrong.”

Backeye@360 and MDR as a combined system can improve efficiency. Raymond goes on further to describe how: “We



make refuse collections for a large bakery. Our driver was using a front end loader to empty the large containers. He emptied the first and second. While he was emptying the third container bakery staff were filling the first one up again. The manager then phoned to say that we had not emptied one of their bins. I argued that we had. She disputed this but did not want to pursue the claim when I offered to send the CCTV footage. Before we fitted MDR, we would have returned to the site which is 20 miles away and emptied the bin again free of charge, thus costing us money. People think the 360 degree camera systems are good for preventing accidents but there are greater benefits than safety alone. When connected to MDR, the wide angle lenses pick up much further afield than normal cameras. That is great for service systems.”

EIS Waste have reaped benefits in many ways, saving money, time and improving efficiency. So what is their overall opinion of Brigade's systems? Raymond said: “I don't know how we ever worked before.”



www.hub-4.com/directory/5055

M.A.C. Contracting working 24/7 recycling waste materials into valuable products

Bulk excavation and recycling company M.A.C. Contracting is based in Nuneaton, Warwickshire, United Kingdom. A family owned business established in 1998, it has grown rapidly over the years now turning over in excess of £12 million per year. The identification of an opportunity to recycle and reuse construction materials normally seen as waste has helped the company now be considered one of the major service providers of its type in the Midlands.

M.A.C. Contracting employs approximately 100 people and now runs a fleet of eight wheel tipper lorries and self-loading grab lorries. The company prides itself on being a one-stop-shop offering a variety of services that includes tipper haulage and plant hire, as well as the supply of road planings, hard-core and recycled aggregates. In addition the company is also able to provide specialist muck away and waste management services.

Over the last three years M.A.C Contracting has started to focus its attention more closely on recycling, and the supply of recycled aggregate, in addition to the supply of quarried aggregates. It has been recognised that this is an area of major growth, and the company is now able to boast this as its key business activity. The reasons for this are simple: in the construction / demolition industries items such as concrete, sand and brick, to name but a few, comprise 70 - 95% of discarded material arising from a residential or commercial site development.

Often discarded, these materials are regarded as valuable commodities that can be recycled into new products, or used in many new ways, being financially beneficial to the company's business and also being of great benefit to the environment.

In order to recycle this material resulting from construction and demolition projects it is essential to have the right equipment. To this end M.A.C. currently operate a Sandvik Construction QJ341 jaw crusher, QA451 triple deck Doublescreen, a QE141 and two QE341 scalping screens. Designed with the needs of the customer in mind, these latest developments offer user-friendly solutions with optimum fuel economy and low operating costs.

Having previously used a variety of equipment from differing manufacturers, changing to equipment from Sandvik Construction was a relatively easy decision. Marcus Clay, Managing Director explains, "The reason I chose Sandvik products is due to the reliability, fuel consumption, service support and location. All the machines have performed exceptionally well and I would recommend Sandvik products to others". He continues, "The machines are reliable and we have never had any issues with service or support; excellent in all areas".

Marcus goes on to explain how the crushers and screens fit into his operation, "The QJ341 Crusher is feeding the QA451 screen which is working in a four way split separating the material into various different aggregates. These include pipe bedding, 6F2 crushed concrete, concrete fines and 10mm pea gravel. The QE341 screens predominantly road planes back down to 20mm. Grab loaders return to site with a truck load





of soil, brick and general garden waste, the soil is separated out and the rest is fed into the crusher."

The sites in operation are a hive of activity, with the trademark M.A.C. yellow trucks resembling bees swarming around a honey pot. Efficiency is key to the operation, with no machine ever remaining idle and tipper lorries constantly loading and unloading the finished product ready for delivery. This helps ensure that the end product is readily available for its customers with the recycled aggregates being supplied to construction, civil engineering quarrying and building companies that use the material as a substitute for quarried stone. This is subsequently used on a variety of applications including new road construction, building works and car park projects.

M.A.C.'s site now operates 7 days a week, and on occasions due to a heavy work load, even operates during the night, providing a true 24/7 service. This admirably shows the company's commitment to serving the growing demand of its clients. This has certainly paid dividends as M.A.C. has recently won a 3 year contract to supply materials for use on a major

road project in the Midlands, the A46 Toll Bar End near Coventry, which is due for completion in 2016.

Marcus explains how the growing reputation of his company has helped win such valuable contracts: "Our customer base is a mixture of loyal customers and new contacts that are constantly being added to our database on a monthly basis. We rely on word of mouth, website referrals and repeat customers coming back."

In an industry where quick response times are essential, M.A.C Contracting is able to satisfy customer demand quickly and efficiently. Sandvik Construction has contributed to the success of M.A.C. by ensuring that the machines supplied and the aftersales support is of the required quality to provide such levels of service. The partnership established between Sandvik and M.A.C. has been beneficial to both parties, and vitally, to serving the needs of the construction and associated industries in the Midlands.





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Europe's biggest dedicated trade event for the metal reprocessing and end of life vehicle (ELV) recycling sector is to return in July 2016, and is to be hosted alongside the Metals Recycling Event, organisers have announced

The Complete Auto Recycling and Secondary Materials (CARS) will move to the Donington Park Circuit, Derby, on July 13-14 2016, after having been held in Doncaster in 2014.

The 2014 event attracted over 75 exhibitors and more than 1,200 attendees from around 25 countries including India, Japan, Germany, USA and Australia, with organisers anticipating that the event will continue to grow apace in 2016.

Organised by Environment Media Group (EMG), CARS 2016 is free to attend. It will feature a comprehensive range of speakers on the conference programme, practical guidance through the Skills Lab, off-site garage tours and a fully functional outdoor demo area. The event also features a gala dinner at Donington Park's Paddock Suite on the evening of July 13.

And, new to 2016, CARS will be co-located with the Metals Recycling Event, the metals recycling sector trade show for merchants, processors and transporters of scrap metals.

Exhibitors already signed up for the 2016 event include Blue Fuchs, Combilift, Duesmann & Hensel Recycling, JCB, the Motor Vehicle Dismantlers Association, Manitou, Remove My Car, Salvage Wire, Sellers, Sims, Wickens Engineering and a host of others.

Commenting on the 2016 show, Rob Mowat, director at EMG, said: "CARS is the only show of its size dedicated to the auto recycling industry, and we anticipate that in 2016 the show will be bigger than ever.



"Unlike traditional trade shows, visitors will get the chance to experience not only the indoor exhibitions, but to see working line demonstrations, participate in offsite tours, visit the Skills Lab and access the conference theatre."

For full information about the show and for admission enquiries, visit www.cars-expo.com.

Neuenhauser launch the Targo 3000 Slow Speed Shredder

Riverside Machinery Ltd, sole UK dealer for Neuenhauser are delighted to announce the launch of the Targo 3000 Slow Speed Shredder.

The machine will be unveiled at the Neuenhauser world dealer conference in October 2015 after which it will be available to the UK market.

John O'Neill comments: "this will be big game changer for Neuenhauser and ourselves. The market has been crying out for a quality slow speed shredder that encompasses the features we see on this new product at an affordable price. The most important of which are direct drive to the shredder, a single shaft shredder, reversible shaft via hydraulic motor, amazing access for servicing, hydraulic comb system and many many more"



The first unit will be arriving in the UK at the end of October so now is the time to make contact with ourselves to enquire about this superb product.

If you would like more information on the Neuenhauser slow speed shredder please do not hesitate to contact Riverside Machinery on 0800 689 9024 or sales@riverside-machinery.com or visit www.riverside-machinery.com



www.hub-4.com/directory/12459

A successful Ecotec open day for Terex Environmental Equipment.

With invite in hand the HUB team along with customers and dealers from around the world descended on Mitcham, South London in the last week of September for the much anticipated Ecotec Open Day.

After recent acquisitions and considerable investment by Terex this was the first opportunity for industry people to experience first-hand the Ecotec range and fully appreciate the breadth and depth of machines available. So with the sun shining brightly an impressive array of eight machines were put through their paces by the Ecotec team.

The TWH 215 & TWH 226 waste handlers, fitted with sorting grabs, were used to load material into the different shredding and screening equipment. The impressive operator viewing height and loading reach was clearly evident as the skilled Ecotec operator fed the machines with effortless ease and efficiency.

With green waste material being processed by the TBG 620 high speed grinder this machine presented impressive material reduction and end product results.



A large quantity of industrial waste.

The site used for the event processes a large quantity of industrial waste and for the demonstration they had replaced their current operations with the TDS 820 slow speed shredder and the TTS 620T tracked trommel. This machine combination reduced the waste material and creating the desired two product sizes.

On static display was a TRS 550 screening machine, with the advanced technology Spaleck screenbox. This was surrounded by interested spectators wanting to examine the machine up close.



A machine which really did catch the attention of the visitors was TDS V20 medium speed shredder. This machine utilizes a shredding chamber from the German supplier Vecoplan. It clearly demonstrated that it is now possible to shred waste wood and create a sized end product in open pass with the added benefit of a greatly reduced fines product. The TTS 520-3 trommel, which was screening the end product, confirmed the TDS V20 capabilities by separating the product into three product sizes with the majority being the desired middle size.

Throughout the open day a highly experience team of engineers, service technicians and sales representatives were on hand to give very informative guided machine tours and application discussions.

Sales Support and Marketing Manager for Terex Environmental Equipment - Steven Aiken, commented, "We are delighted with the turnout and to have the chance to showcase our impressive product range".

As the dust settled after the last demonstration and customers started to disperse it was clear that Terex Environmental Equipment have delivered on their vision to be a global leader in the wood processing and recycling industry.



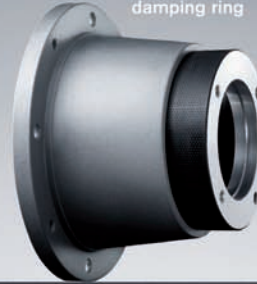
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Red Knight 6 Ltd joins Haas Recycling Systems to Celebrate a Milestone 25th Anniversary

RK6 joined Haas Recycling Systems to celebrate their 25th Anniversary in Dreisbach, Germany on 24-25th September, and also viewed the brand new Haas Tyron 2000XL 2.0 Twin Shaft Slow Speed Shredder.

The shredder has some very exciting new features that will make the operation and maintenance of machine much easier than before. With new magnet features, new breaker bar and chamber access and design, along with a larger engine compartment and reworked hose lines, this machine is going to make real in-roads into the UK market when it arrives in January 2016.

In 1989 Mr Volker Haas founded the family business, and since then not only the number of employees has grown, but also the measure of experience is expanding.

67 people are employed in sales, engineering, service, purchasing, accounting and administration department as well as in the manufacturing. In addition to many new people joining the ranks, Haas are very proud of the many long-term employees which are involved with the company from the beginning.

The production program has been expanded gradually, and now they are a leading manufacturer of turnkey waste wood and waste recycling plants. Above all, with the Tyron shredder series, Haas provide an ideal solution for pre-shredding in mobile and stationary version. With the announcement from Haas that the UK is now their biggest global market, along with the several orders taken for the new Haas Tyron 2000XL 2.0 Twin Shaft Slow Speed Shredder for delivery in January 2016, RK6 and Haas look ready to take on the future with real confidence and energy.

RK6 would like to thank the 50+ UK customers who attended the event with us

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Warwick Ward Celebrate 45 Years in Business

Warwick Ward Open Day 2015



Warwick Ward, one of Yorkshire's leading plant and machinery dealerships recently held an open day to celebrate more than 45 years of being in business. The company, which has gone from strength to strength over recent years, offers a wide range of new and used plant and machinery from manufacturers Case Construction Equipment and Tana, catering for all sectors of the construction industry, including waste & recycling, demolition, onsite construction & quarrying.



Ashley Ward, Managing Director of Warwick Ward,
Scott Freeman, Business Director for CASE and
Matthew Ward, Director of Warwick Ward.

The company has also recently expanded their operations with the opening of a new site in Redditch to facilitate its Case dealership growth.

New and existing customers were invited along to Warwick Ward's one mile long site in Barnsley, where they had the opportunity to see live demonstrations from some very cutting edge machinery.

One of the big attractions at the event was the impressive TANA Shark 440DT slow speed shredder demonstration. Customers were able to see how the shredder could easily shred down waste material to less than 50mm in just one pass due to the option to fit a hexagonal holed screen below the rotor. It also features a side opening door unique in design which offers direct access to the rotor itself enabling any potential blockage to be quickly and easily dealt with, and thereby minimising downtime.

The majority of the Case C series excavator range was on display, ranging from the Heavy Line 47 tonne CX470C to the 13 tonne CX130C as well as the entire mini excavator line. There were also machines from Case's renowned F series Wheel Loader range, including an 821F and 721F Waste Handler which are ideally suited to the recycling sector due to their durability and performance, plus a huge stock of used wheel loaders and other construction equipment to view.

Visitors were also treated to quite spectacular entertainment throughout the day, with fire dancers wowing the crowd and an 'impromptu' performance from Robert Hughes (Case Sales) who surprised visitors and staff alike with a rendition of his favourite songs to keep the crowd entertained!



Fire-Eaters perform for the crowd



As well as refreshments being available on demand, a complimentary hog roast and jacket potatoes went down very well with guests. There was also a charity cake stall on hand, with all money raised from cakes heading to Cavendish Cancer Care; a total of over £200 was raised.

Ashley Ward, Managing Director, said "It was fantastic to see so many of our customers, both new and old. The open day was a great opportunity to speak directly to them and to highlight what we have to offer."



Rob Hughes of CASE Sales at Warwick Ward in his other role as entertainer!

Warwick Ward supply a range of new machines to Impetus Waste Management

A range of Case machines supplied to Impetus Waste Management, one of the largest waste management companies in the North of England. Models supplied include, two 721FXR wheel loaders, an 821FXR wheel loader, 921F wheel loader, 1021FXR wheel loader and a CX210B high-rise material handler, plus a bespoke service agreement designed to meet the clients exact requirements.

Need

Impetus Waste Management required new machines that were not only competitively priced but would also deliver excellent performance, reliability and fuel efficiency, coupled with low operating, service and repair costs, backed up with excellent aftersales service, as their machines are required to work extremely long hours in a very challenging environment.

After careful examination and testing of several competitor machines, Impetus Waste Management decided to optimise its fleet and use just one manufacturer at all its sites in the North of England, as it felt this would offer better purchasing power and service support.

At the company's newest waste to fuel plant, located in North Tees, it now moves and unloads waste using two 721F XR wheel loaders, an 821F XR wheel loader, a 921F wheel loader and a 1021F XR wheel loader. The machines work alongside a CX210B high-rise material handler, which pre-sorts the waste and feeds the site's Metso shredder at approximately 70 tonnes per hour. Each machine works a minimum of 22 hour shifts, with only two hours of downtime to allow the machines to be fully cleaned down.

Work to be performed

Founded in 2003 and employing 240 full-time staff at its four waste transfer, two landfill and one composting sites, Impetus Waste Management is one of

the largest waste management companies in the region, processing over 900,000 tonnes per year.

Over the last 24 months the company has replaced a large portion of its fleet and now operates 17 Case machines, supplied by local dealer Warwick Ward, across its eight sites. The remaining dozen other branded machines will be replaced with Case machines as and when they need renewing.

At the 20 acre North Tees site it processes 640,000 tonnes per year and operates a 24/7 operation, 365 days-a-year. The site can import up to 2,000 tonnes per day and export up to 1,000 tonnes per day.

"These machines are very efficient," says Site Manager Craig Jones "When it comes to reliability they are excellent. Considering how long we run the machines for we have very few problems, which is fantastic considering the amount of material we are moving per day".

Case 721F XR, 821F XR and 921F

The Case 721F XR (145kW/195hp), 821F XR (172kW/230hp) and 921F (190kW/255hp) wheel loaders are all fitted with a 6.7 litre interim certified diesel engine. Air intake uses a turbocharger with air-to-air cooling.

No EGR valve is used, only fresh air is taken for combustion and no extra cooling system is needed. Injection is via Common Rail Multiple Injection with an HI-eSCR (DOC + SCR) After Treatment System and the rear mounted engine offers better weight balance which means bucket payload increases by 10 - 15% at each cycle.

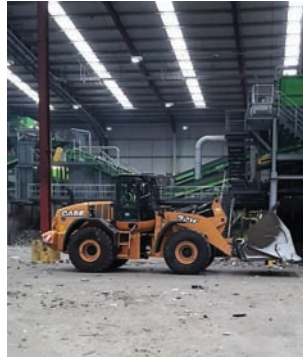
All three machines use Case's unique Proshift transmission, a five-speed powershift with lock up. This eliminates torque converter losses from second gear up to fifth gear, helping to reduce cycle times and fuel consumption. The Case heavy duty cooling cube whose unique design is exceptionally effective in dusty conditions, means better reliability and more uptime.

As handling wood, green waste and other flammable materials can be dangerous, especially outdoors, AdBlue is sprayed directly in the diesel exhaust to reduce fire ignition risks. In addition, the maximum temperature of the HI-eSCR is 500°C, 200°C less than the maximum temperature of a particulate filter.



Phil Lord, Operations Director at Impetus Waste Management, with Simon Causier, Director at Warwick Ward





Fuel usage can be dramatically lowered using this system, from 2 to 7 litres per hour, compared to other technologies. In combination the Hi-eSCR and Proshift option mean significant energy losses and costs are avoided.

"The ad blue systems makes the machines fuel efficient," says Jones. "Fuel efficiency delivers 1 or two litres per hour saving against other demonstrated machines."

Designed with the operators in mind the F Series cab offers great visibility and levels of comfort. impressed

"The machines are very smooth and comfortable to drive and the controls are very smooth to operate," says operator Richey Maughan The air-conditioning is great, especially in the summer, as in this type of environment it can get very hot, and when your spending 11 hour shifts in a cab, it's really important to be in a comfortable one!"

"Visibility is also very good, all blind spots are eliminated. The rear camera is very useful, especially with so many piles around you at all times. Sometimes we have four or five. It's always very busy in here, so being able to see everything at all times is very important for safety reasons. The high tipper is also very good. I wouldn't change anything in the design of these cabs!"

Case 1021F XR

The 1021F XR, which is specifically engineered for waste recycling, wood recycling and composting applications, features an 8.7 litre Tier 4 interim certified diesel engine. Like the other F Series wheel loaders its air intake uses a turbocharger with air-to-air cooling.

No EGR valve is used, only fresh air is taken for combustion and no extra cooling system is needed. Injection is via Common Rail Multiple Injection with an HI-eSCR (DOC + SCR) After Treatment System, which is helping Impetus Waste Management save money on its fuel bill. The 1021F XR's transmission also features Case's five-speed Pro shift transmission system with auto-shift system and Intelligent Clutch Cut Off (ICCO), plus the Case cooling Cube

The Rexroth closed-centre load sensing system features a three section main valve. All this power means the 1021FXR is more than capable of handling 2,000 tonnes of waste the site can processes per day, which adds to efficiency around the site when loading and unloading in-coming and out-going delivery trucks, feeding the shredder and stockpiling materials.

CX210B

The CX210B's offers proven low fuel consumption. Dedicated matching of slew speed and boom raise functions increases productivity, while high lifting forces allow easier dump function with

high lift arms. The large CX-B series cab offers excellent visibility and is mounted on a rigid parallel lift structure that rises to 5.06m, ideal for viewing the bucket during unloading and loading of the high-sided trucks that deliver the raw waste materials. The cab descent switch can be activated from inside and outside the cab, for increased operator safety.

A choice of booms and arms is available for material handling and scrap loading applications. A heavier counterweight ensures maximum stability and auxiliary hydraulic lines allow rapid installation of dedicated working tools from the Case range.

Client's opinion

Phil Lord, Operations Director at Impetus Waste Management said: "Working 24/7, 365 days-a-year we cannot afford to have machines out of action. We need machines that are solid, durable and very reliable. Just as importantly as having the right machines, was knowing they could provide excellent after sales service. Case dealer Warwick Ward has given us the complete package, as well supplying machines that are cost effective and offer great performance and durability, they have assigned two of their engineers to look after the machines. Permanently based at our sites, they are always on hand if and when we need them."



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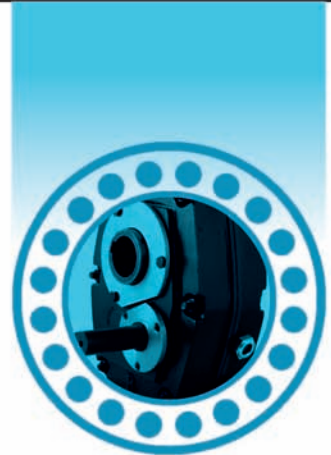
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New Raymond Brown IBA Processing facility at Barton Stacey is a complete success

The HUB recently visited the brand new Raymond Brown IBA processing facility at their A303 Enviropark site near Barton Stacey, Hampshire.

The new plant which processes over 100,000 tonnes a year of IBA was designed, manufactured and installed under contract by DUO Manufacturing (Division of DUO plc) over a period of four months, with testing and commissioning successfully completed in March 2015.



Lee Thompson - Operations Director - RB Aggregates, commented, "The household waste that previously used to go to landfill in Hampshire, is sent for energy recovery at the three ERFs (Energy Recovery Facilities) in Hampshire. The ERFs process non-recyclable household waste and recover energy from the incinerated waste to produce steam. This steam is



used to generate up to 38MW of electricity every year, which is enough to power over 53,000 homes. The technology sees waste burned at high temperatures under controlled conditions with the process producing Incinerator bottom ash (IBA). The IBA is then delivered to the A303 Enviropark site to be processed and recycled for use as sustainable aggregate within the construction industry."

Raymond Brown has been processing IBA from the Hampshire ERFs for over seven years at a site near Ringwood. As part of the wider business strategy, the company relocated to the A303 Enviropark and designed and installed a new state-of-the-art processing plant. The new IBA plant is now processing all the IBA material delivered from the three ERF's in Hampshire - Portsmouth, Chineham (Basingstoke) and Marchwood (Southampton). >



IBA Processing

The unprocessed IBA is delivered to the on-site excavator which handles the ash into windrows where it is left to age for 6-8 weeks.

The aged IBA is then fed by front end loading shovel into a hopper with a variable speed belt feeder. It is then passed under a high powered overband magnet to recover large ferrous metals that are sent on for recycling.

The IBA is then fed into the 23 metre long, rotating trommel screen which is angled to process the material as it passes through the drum. All the -65mm material then passes through the screens whilst the larger material is delivered by conveyors to a picking station for further recycling. Here it is sorted with any oversize metals being removed alongside typical oversized brick and concrete which is then sent for crushing on-site and used as a recycled construction aggregate.

The -65mm material from the trommel is then fed onto a second incline conveyor and under a secondary overband magnet which recovers any smaller ferrous metals, before delivering material into the screen house and onto a large Binder screen. Here the material is split into three sizes, fine (0-5mm), medium (6-16mm), and large (16-65mm). The Binder screen starts where conventional screens become inefficient and less economical. Products that are damp or partially friable can block conventional screening applications, making efficient screening impossible. The Binder screen provides a simple solution to these challenging demands:

a driving mechanism producing resonance provides two vibratory movements in which the flexible polyurethane panels are expanded and compressed in turns, and the hard-to-screen IBA is separated at high acceleration. The dynamically excited screen panels thus remain clear and allow efficient screening.

All the screened material is then delivered via respective conveyors over magnetic head drums to recover any residual magnetic materials. The three grades of material are then passed over a concentric Eddy Current Separator (ECS) to recover light and heavy non-ferrous metals which are then exported for recycling.

The three remaining grades of aggregate material are then sent to a radial collection conveyor where the blended material becomes a fully processed IBA aggregate (IBAA), which is used as a high performing sub base material for road construction or well graded granular fill material for embankments.

Adam Murnieks - Strategic Development Director (Raymond Brown), commented, "This facility at Barton Stacey followed our successful installation at Ardley in Oxfordshire. Plant design is similar to Ardley with the HUB of the plant being the very dynamic Binder 'flip-flow' screen, however, unlike that plant, this is situated outdoors on a larger footprint which allowed us to position the windrows differently. This is another very efficient plant in our portfolio."



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Kiverco unveils its backbone in waste composting

Kiverco and EnVar, two waste and recycling experts in their respective fields, have joined forces to help to protect the environment and create resources for future generations as a new Kiverco waste screening plant is installed at EnVar's organic waste treatment site in Cambridgeshire.

EnVar and Kiverco

EnVar is the UK's largest waste in-vessel and windrow composting facility and currently recycles food waste and green waste, co-mingled food and green waste and specific organic waste. With 30 years' experience in composting, EnVar now works with a number of Local Authorities throughout the UK.

Kiverco consults, designs, engineers and builds uncompromisingly robust recycling plants for the waste processing industry, utilising the latest technology to consistently provide reliable output and recovery, in line with the latest industry developments.

The Woodhurst Site

Regularly operating to full capacity and with 16 full time workers, the EnVar site is incredibly busy. Recycling peak times change and weather impacts on the process too. For example, in the summer, as temperatures increase and the nation gets greener fingers, huge levels of garden waste can be expected. During such times, staff can expect to see 35 loads a day of mixed food and garden waste, each weighing 26 tonnes.

As the waste arrives it is immediately mixed, shredded and blended, then water is added before the material is transported into a tunnel as part of the "in vessel" composting system. During this process, the environment is managed carefully so that the material reaches a temperature of 60° for 48 hours as this eliminates undesirable pathogenic bacteria such as Salmonella and E.coli spp and even weed seeds. The tunnels at EnVar can take up to 450 tonnes of waste in one vessel. Once this process is complete, the waste

is transferred to a maturation pad outside and exposed to the elements. After 8-12 weeks of turning to achieve aeration, close monitoring and turning, the waste is ready to be transferred to the recycling plant for final processing to produce a top quality soil improver and other similar products.

The Challenge



In order to improve throughput and product quality, EnVar called in Kiverco to review operations. In July 2014, the local Kiverco Area Sales Manager, JP Devlin, met with Neil Pickard, then Executive Director of EnVar, to discuss the company's requirements for a new recycling plant. The Kiverco service

always starts with a detailed review of the client's present activities and crucially, further consideration of the outcomes the client is looking for. This approach is critically important and enables Kiverco to gain the best possible understanding of the customer's present and future needs. During this process, Kiverco carries out tests on the input material, to clearly understand its composition and uses the results gained when making their final proposals.

After detailed discussions, it became apparent that the EnVar site required one purpose designed static plant as opposed to the five separate systems that were currently being used. The workers had experienced problems as the different plants required individual maintenance and management. It was also vital for EnVar that the new plant could easily cope with the increasing daily volumes of waste being handled at the site and be flexible in terms of the different fractions that can be sifted.



The Solution

After listening carefully to the requirements outlined by Envar, Kiverco designed and installed a custom built composting plant, able to separate household organics and recover recyclables with maximum efficiency. This plant was unveiled in September 2015.

Commenting on the design of the plant, JP Devlin at Kiverco said "When engineering this plant, we were not afraid to do something different to ensure the client had the best solution for their specific needs. This involved us working closely with third parties throughout the process to ensure every element of the plant was perfect for EnVar."

The plant has eight different systems within it that ensure maximum uptime and therefore maximum output. These include:

1. Dosing feeder- giving a consistent and metered flow of material into the plant
2. Waste screen- separating material with measurements of less than 150mm
3. Picking station- manually removing any contaminants such as plastic films from the material, leaving a clean wood fraction to be re-used as a bulking agent for the composting process
4. Combi station- screening out products of 0-10mm and stockpiling it, and splitting material of 10-30mm & 30-150mm using a vibrator screen
5. Density separation- conveying the material left (10-30mm & 30-150mm) and removing light containments such as papers and plastics
6. In-line magnets - passing the material beneath in-line magnets for the removal of ferrous metals
7. De-stoner - removing the stone from the two fractions
8. Quality control- manually removing any remaining contamination from the material to leave clean, organic product either for re-use as a bulking agent or biomass outlets

The plant also boasts an electrical control room, generator, and a large capacity fuel tank.



The Results

Ultimately, the Kiverco plant enables the EnVar site to produce a quality, PAS 100 & CQP certified soil conditioner for the agriculture and amateur horticultural markets. Now operating fully, the plant is contributing towards the site processing 105,000 tonnes of co-mingled food and green waste per year.

Richard Adcock, EnVar Site Manager said: "Kiverco has provided a robust solution with the lengthy lifespan we need. We have locally recruited 5 additional members of staff to assist with the plant, demonstrating how the system will increase our capacity levels. Working with Kiverco, EnVar can confidently look forward to a successful future."

John Lines, Sales and Marketing Director of Kiverco said: "It is always a pleasure to work with our customers and see in action the differences that our plant can make to the waste management process. As a company we strive to minimise the amount of waste that is sent to landfill and we hope to help EnVar continue to reach its full potential in the composting industry."



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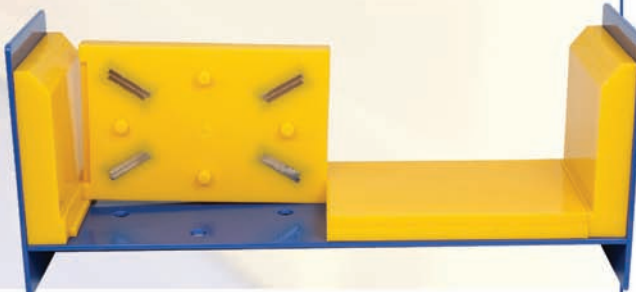
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Maintenance to match a tough environment

Waste and recycling sites are harsh environments and tough on the people and machines that work there. Usually operating long hours, dealing with a range of potentially damaging materials, often in confined spaces and, at least in part, open to the elements, to say they are challenging is an understatement. Fred Bell, JCB's business manager for the waste and recycling industries, looks at the issues site operators should consider to keep machine downtime to a minimum.



In the arduous environments of waste and recycling applications, such as transfer stations, materials recycling facilities or civic amenity sites, it is vital that all machinery is correctly specified for the job at hand. Trying to 'make do' with the wrong machine can put workers at risk and can also damage the machine, with cost implications and site downtime while the machine is out of action.

Buying machinery for waste and recycling environments is a considerable financial investment. Machines need to be flexible, reliable and robust in order to deal with a variety of materials that may be handled throughout the year. Even using the most appropriate machine - no matter how well built it is and how carefully it is operated - things can, and will, go wrong. For instance, the dusty and dirty nature of many waste sites means that material will gather inside the machine, clogging cooling packs, wrapping round rotating parts, and generally risking damage to the machine. Downtime costs money, so repair and maintenance planning is a crucial part of keeping a site running smoothly.

Maintenance contracts

It is important to look for machinery dealers who get to know your business, are committed to finding the right product and who help you get the best from the machine throughout its lifespan. In the case of machines for waste sites, this means operating at maximum capacity as often as possible, and for as long as possible. The best way to ensure this is through convenient servicing options.

Having a maintenance contract in place with your dealer allows you to plan and manage your maintenance budget. You can also be assured that your machine is receiving the best support available and have the added benefit of a full service history if, or when, you decide to sell it.

The best agreements offer a high degree of flexibility allowing you to set them up either when you first purchase the machine or at a later date if required. They should also offer you the payment option you need, for instance paying directly for the work carried out, or paying a fixed sum for your dealer to undertake all regular maintenance and make any necessary repairs.

Response times

In the best case scenario maintenance can be planned in advance of any issues. This can mean either scheduling checks at regular intervals - for example every 500 hours or six months perhaps - or by using an advanced telematics system, encompassing satellite and cellular technology. Telematics enables you to better protect your machine and accurately monitor and improve its performance. However if the machine does fail, it is critical to minimise the downtime, so a quick response from the dealer is essential. The size and location of the dealer network and the ability to get the right parts quickly will be crucial to the response times.

Availability of support

If a site is at work 24 hours a day, seven days a week the operator needs to know support is available 24 a day, seven days a week. It's important to check that the dealer providing the maintenance support can match the operator's needs and get the right parts quickly. It is also important to know who will be fitting parts and maintaining machines. Technicians should provide excellent, expert customer care, for routine services or more urgent repairs. If there is an emergency breakdown situation, it is important to know that they will act fast. Dealers should operate their own fleet of support vehicles as this enables parts to be delivered quickly and fitted expertly, minimising any downtime on site.

Surviving a brutal environment

Vehicles and machinery are key to the success of any materials handling and recycling plant. Better durability of course means better value for money and potentially better resale value. Machines that allow regular checks to be performed from ground level, quickly and safely, save valuable time and can help any problems to be identified, and pre-empted, swiftly. Some more advanced machines now boast service intervals of 500 hours.

When purchasing equipment for waste management operations, it's worth investing in a known brand with a solid reputation in the industry. Waste doesn't only arrive between 9am and 5pm, Monday to Friday so you need to be sure that your machines can cope with continuous work. It's therefore important to have a supplier that understands the industry and is willing to provide suitable warranties, parts availability and back-up support.



Every machine you buy should be designed for the harsh environments and high utilisation that is part and parcel of your daily life. It should be built to deliver the kind of reliability that ensures optimum uptime for your business and it should be supported with a maintenance package designed to help you cope with the tough environment you work in.

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Waste Sorting and Balers for segregation at source

Recycling and resource efficiency is a high priority for the UK government, as the 2020, 50% EU mandatory recycling target, draws closer. Recycling is encouraged more and more throughout industry for environmental and financial gain. Segregating at source is a popular method, used to ease the recycling process within businesses large and small.

Segregating waste at source is an effortless approach to add value to waste and maximise recycling. Once waste is mixed with 'wet' waste it easily becomes contaminated, mixing dry recyclable waste is time consuming and costly to separate later. Simple segregation at source, ensures the material is easily identified and mixed with the same material streams at the recycling facility or distribution centre.

Whether materials are collected locally by recyclers or 'back hauled', segregation is key to maximising the material value and increasing recycling. Segregation at source and 'backhauling' is particularly effective for multi-national business' where material is collated at Distribution Centres and sold for maximum rebate.

To improve housekeeping and minimise transport, baling and bagging, segregated waste creates further efficiency. When combined with backhauling, a business can remove bins and skips for dry recyclable materials, increasing space and reducing inefficient bin lifts of loose waste and vehicle movement.

Compact powerful balers with simple operator and bale ejection systems are ideal for the process of segregating at source, with a euro pallet footprint or smaller, they have a limited impact on floor space in many environments. Additionally the strategical method of placing recycling bag stands close to sources of waste in businesses, where waste is generated in multiple areas, results in increased productivity and a reduction in contaminated waste, ensuring maximum recovery.

Small Balers are the perfect solution for baling waste on site, for a variety of outlets including; retail, warehouses, canteens, offices, factories etc. They reduce the impact of waste on floor space and in some cases offer an additional revenue stream for the company. These powerful but compact balers, such as the Easi 350 and 450, offer simplicity to the operator and versatility, with the ability to bale a number of recyclable materials, for example; cardboard and plastic. Locating the balers in unpacking areas, whether inside or out improves the business' logistics, efficiency and helps to provide a streamlined waste management process. This, in turn, generates savings on waste disposal costs including bin & skip lifts and landfill fees.

Recycling bag stands, can be used in conjunction with balers, they take up very little space and can be placed throughout a business' premises or by the in-house baler. The strong transparent bags give visible management of waste that could be; plastic, paper, cans, food waste or general waste. Reducing the impact on time, the bag stands allow companies to collect one specific material type from around the company and bale all together. These simple and cost effective recycling systems from Easi Recycling are also available as colour coded pods which allow the creation of recycling stations to suit the various waste streams in different areas of a company.

Segregating at source is a key topic for all industries and is paramount for businesses who want to reduce their waste costs and efficiently utilise their floor space. Encouraging and implementing source separation strategies to achieve waste avoidance and maximise recyclable material recovery, is important for all companies wanting to boost their bottom line. Easi Recycling offer free waste audit services, looking at business' and advising on process, equipment and revenue to maximise benefits.

Middleton baler and conveyor installed at Ecogen



Ecogen Recycling increases capacity with new baling solution from Middleton Engineering

A new baler and custom conveyor solution supplied by Middleton Engineering has increased throughput and capacity for Ecogen Recycling, a fast growing waste recycling business offering sustainable waste management solutions to customers nationwide from its new operations base in Alresford, Hampshire.

Handling commercial waste recyclables predominantly from leading retailers, distribution companies and major manufacturing sector clients, as well as other recyclers, Ecogen currently focuses its recycling operation on cardboard, plastics and paper, with baled materials destined for re-processors in the UK, Europe and as far away as China.

The turnkey solution includes a fully automatic, 50 tonne press force, channel baler sourced by Middleton Engineering and serviced at the company's works near Glastonbury, together with a fully refurbished feed conveyor and loading hopper to optimise performance and bale consistency.

Installed and fully operational it has provided new capacity enabling the business to process material faster with less manual labour. This in turn has freed up valuable storage space which means Ecogen Recycling can accommodate more new business and without having to increase costly labour requirements.

James Lewis, Commercial Director for Ecogen Recycling Ltd said: "Despite challenging margins in the waste recycling sector, Ecogen has established itself as a profitable, multi-million pound business simply by offering a superior service, quicker payment terms and fairer material rebates to its customers. The baler and service package enables us to increase capacity and throughput without additional labour resources all with consequent benefits for our customers. With recommendations from a number of our partner companies, Middleton's consultative approach with advice and support



Ecogen Middleton conveyor delivery

for an expanding company like ours and trouble free installation has been a perfect match."

The new machine joins an existing manual feed semi-automatic closed-end baler now deployed full time for the company's archive paper shredding plant. "It means we can now run the shredding plant all day without interruption because the new automatic baling solution needs less manual intervention," he added.

Mark Smith, Engineering Director at Middleton Engineering said: "Like many of the waste recycling companies and local authorities we work with, Ecogen Recycling was looking for a reliable solution, able to withstand the rigours of a 24/7 production environment and the right backup service when they needed it. The 'one stop shop' approach we provide from fabrication and supply to installation and service, covering all the components including the feed conveyor, is particularly important and overcomes many of the integration, bale density and loading issues we come across."



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NHS Trust gets firm grip of 'waste'



The Rotherham NHS Foundation Trust is a modern, progressive organisation with a reputation for clinical excellence and efficiency. With a keen eye on continuous improvement, the Trust works hard to ensure it provides services of the highest standards, at its main 500-bed Rotherham Hospital site and other community centres.

So, it is perhaps unsurprising that the Trust also has a zero waste to landfill policy. This strategy ensures that waste is disposed of safely, that the waste hierarchy has been considered for each material stream and that the organisation upholds strong environmental credentials.

A robust baling system is in place to sustainably process cardboard and plastic packaging, for instance. The Trust's journey into the world of baling began in 2006, when they invested in a mill size waste baler from North Yorkshire based Riverside Waste Machinery. With a high compaction force and 40 second cycle time, the robust 'RWM 500' can easily create bales of up to 550kg. Used to handle the Trust's cardboard materials, its goal is to process large volumes of 'waste', before maximising transport efficiencies and load capacities when the bales are then collected for recycling.

The Rotherham NHS Foundation Trust's Waste Management & Environmental Services Officer June Cadman elaborates: "We're currently handling up to six tonnes of cardboard packaging materials every month, which sees us regularly producing on average 4-5 mill size bales on a weekly basis.

"The consideration we have put into our waste volume reduction strategy means we can optimise our site space and keep everything clean and tidy. However, the benefits of this baler are two-fold.

By sending our cardboard for recycling (pulping) we are actually supporting the circular economy, as the materials come back into the Trust in the form of tissues and blue roll."

The Trust invested in its second baler, also supplied by Riverside Waste Machinery, in March 2015. The more compact 'RWM 75' is now being used to handle the hospital's plastic 'waste'. June continues: "Whilst we're not processing as much plastic materials - in fact we're only producing around 1 bale for recycling per month - this is nevertheless another crucial piece in our waste handling jigsaw.

"Our general waste tonnage is continually decreasing, which of course means greater environmental and more financial savings for our Trust."

The Rotherham NHS Foundation Trust has won national awards for the way it looks after its waste. Sharing her advice for other organisations considering their resource agenda, June comments: "It would be easy to simply stick to what we 'have' to do, to ensure compliance, rather than thinking outside the box about what more we 'could' do, to fuel progress. But that approach simply isn't on our radar. I'd encourage other public and private organisations to take some time to assess their waste handling, recycling, and reuse strategies too. So many of the materials we use on a daily basis are easily recyclable, and by installing efficient baling technology, businesses can better support the UK's plight for environmental progress, whilst reaping benefits of their own. Due to the income stream generated from the sale of recycled materials, coupled with reduced waste management costs, balers can easily pay for themselves within two years."



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Sector specific operator training for energy and utilities



Workers operating in the energy and utilities sectors carry out crucial work every day that allows the UK public to access the vital services they need. But until recently these industries weren't directly represented with an industry specific plant training scheme that suited their needs.

In February 2008, in response to employer demand for a utilities specific plant scheme, the sector skills council for the gas, power, telecoms, water and waste management industries - Energy and Utility Skills - launched the first edition of the Plant for Utilities Scheme (PLUS). Since then, with support from the EEIAS Product Approval process, it has expanded its reach, from one category covering the training and assessment of mini-excavators, to a scheme which aims to define plant training throughout the utility and waste management industries.

The majority of plant training currently available in the UK is construction focussed, and in many ways not representative of the activities of the utility workforce. Developed with employers, PLUS provides the only quality assured, utility focussed and employer driven plant training within the energy and utilities industries. The scheme ensures quality, cost-effective plant training is available, tailored specifically to the needs of employers within its target industries.

Every programme under the scheme covers theoretical and practical training that ensures operatives are operationally knowledgeable and capable to demonstrate:

- Safe and efficient operation of equipment in situations common within the industry and working environment
- Knowledge of safety requirements relating to the equipment
- Compliance with all current legislation, regulations and Health & Safety Guidance
- Knowledge and understanding in relation to attachments suitable for use with the equipment

Why choose the Plant for Utilities Scheme?

Utility focussed

The primary benefit of PLUS over other plant schemes is its contextual focus. It ensures training is tailored towards plant operations conducted within the waste

management and utilities industries, where much of the workforce is transient and so less likely to be operating plant for extended periods of time, as in other sectors.



Quality of Training

Combining EU Skills' industry skills platform, EUSR, with EEIAS Provider and Product Approval, employers can be confident that learning meets a robust set of standards, is fit for purpose and is being delivered by providers who specialise in quality training and assessment.

EUSR Infrastructure

Individuals who have completed PLUS training and assessment can register on EUSR and receive all the benefits associated with EUSR registration. Records of training and assessment are all held in one single, easily accessible place whether for health & safety passports, skills based schemes, or even bespoke company specific training. Registrations are always up to date and cannot be forged, lost or stolen, and access to the register search is available 24 hours a day from anywhere via the website, making it an invaluable resource for those tasked with confirming competence.

Flexible

The scheme covers a broad range of plant equipment used within a utility context, including:

- Lifting Equipment
- Earth Moving Equipment
- Traction Equipment
- Handheld Equipment
- Compacting Equipment
- Platform and Access Equipment
- Processing Equipment

Mentor deliver mobile plant training recognised by the EU Skills PLUS scheme on a range of equipment types, all mapped to national occupational standards and best practice guidelines for the energy and utilities industries. For more information call 01246 555222 or visit www.mentortraining.co.uk. To find out more about the PLUS scheme, please visit go.eusr.co.uk/PLUS

CSCS affiliation

Any individual who completes EUSR Utility SHEA passport training alongside their PLUS training will be able to access construction sites for the purposes of utilities work, without the need to undertake separate CSCS training and assessment. The utility Safety Health and Environment Awareness (SHEA) portfolio of schemes has been developed in conjunction with industry to provide a uniform approach to health, safety and environmental awareness training across the waste and utilities sectors, in line with HSE guidelines. Modules are available in Gas, Waste & Resource Management, Water, Power and Telecoms and are affiliated with CSCS, removing the need for additional training.

To find out more about the EUSR (SHEA) schemes, visit go.eusr.co.uk/sheawm

Sieve Shakers from Endecotts

Endecotts have a wide range of laboratory sieve shakers. The Octagon 200, Octagon 200CL, Minor 200 and the Air Sizer 200 have been especially designed to accommodate the exacting requirements of the modern laboratory. Ergonomically designed and with a fresh look, Endecotts sieving machines are ideal for your busy laboratory.



The new Octagon 200CL is for precise, reproducible and error-free sieving processes competes with the most advanced sieve shakers in the world.

Several unique features have

been developed specifically for this sieve shaker, including the 'Closed Loop' amplitude control for ultimate reproducibility.

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

The sieve shaker Octagon 200 is suitable for all sieving tasks in laboratories as well as onsite and provides optimum sieving action for fast and reproducible results.

It is robust, compact and sufficiently lightweight to be portable. Its electromagnetic drive combined with a 3D sieving motion ensures excellent separation efficiency in a short amount of time.

A digital display as well as a quick-release clamping system make operation very easy and straightforward.

The new Air Sizer 200 is ideal for sieving very fine dry particles, which require efficient dispersion and desagglomeration via air jet technology (e.g. electrostatic material).

It is also the perfect instrument to quickly provide a sieve cut of powdered materials.

The Minor 200 has been developed and manufactured to combine low cost with the benefits of a well-designed and engineered shaker. It incorporates many features usually found only on larger, more expensive models.

It is ideal for the use in laboratories and plants since it is compact and genuinely portable (weighing only 17kg). The sieve stack is held firmly in position by a clamping belt system. Removing it allows the whole unit to be stored in a space less than 200 mm high.

There are no rotating parts in the Minor 200 - consequently it is quiet in operation and maintenance free.

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Natta Building Company takes delivery of a new CityEquip Hook Lift Jaw Crusher



Riverside Machinery Ltd, have recently delivered a new CityEquip Hook Lift Jaw Crusher to Natta Building Company Ltd

Natta, a Surrey based company, specialise in the construction of both residential and commercial property.

Due to the compact layout of the CityEquip Jaw crusher it is ideal for construction sites where space is a premium.

The CityEquip Jaw crusher is equipped with a 700 x 500 jaw, hook lift movement, weighs 15Tonnes and is diesel/electric drive with electric plug n play also fitted as standard

John O'Neill comments "the CityEquip Jaw Crusher is proving very popular due to the hook lift movement, the ability to accept a large feed size and being extremely fuel efficient as it only requires refuelling every 3-4 days. Not all companies require large tracked jaw crushers which can be very expensive to run"

Natta's machine is already at work producing Type 1 for several high profile jobs in London.

If you would like more info on this fantastic machine please do not hesitate to contact Riverside Machinery on 0800 689 9024 or sales@riverside-machinery.com or visit www.riverside-machinery.com



www.hub-4.com/directory/12459

Exhibitions & Events Diary



11.-17. April, München

BAUMA 2016

11-17 Apr 2016
Munich, Germany
www.bauma.de



CARS

13-14 July 2016
Donington Park Circuit
Derby



SCOTPLANT

22-23 April 2016
Royal Highland Centre, Edinburgh
www.scotplant.com



POLLUTEC 2016

29 Nov - 2 Dec 2016
Lyon, France
www.pollutec.com



IFAT

30 May - 3 June 2016
Munich, Germany
www.ifat.de



CONEXPO

7-11 March 2017
Las Vegas, USA
www.conexpoconagg.com



HILLHEAD 2016

28-30 June 2016
Buxton, Derbyshire
www.hillhead.com



Sieve Software SIEVEWARE



Endecotts "SieveWare", the software for particle size analyses, exceeds manual evaluation in many aspects, due to the fact that the software is able to automatically control the necessary measurement and weighing procedures - from the registration of the weight of the sieve up to the evaluation of the data.

All available parameters (such as sieve stack configuration, dead weight of the sieve, sieve shaker settings) as well as the characteristics, which may have to be calculated, can be entered.

The program accepts automatic and manual data entries from both scale and sieve system. The Octagon 200CL can be automatically controlled with "SieveWare" via RS232 communication. After the sieve analysis is completed, the loaded sieves are reweighed. By determining the weight difference, the program automatically detects the mass proportions and assigns them accordingly to the corresponding fractions.

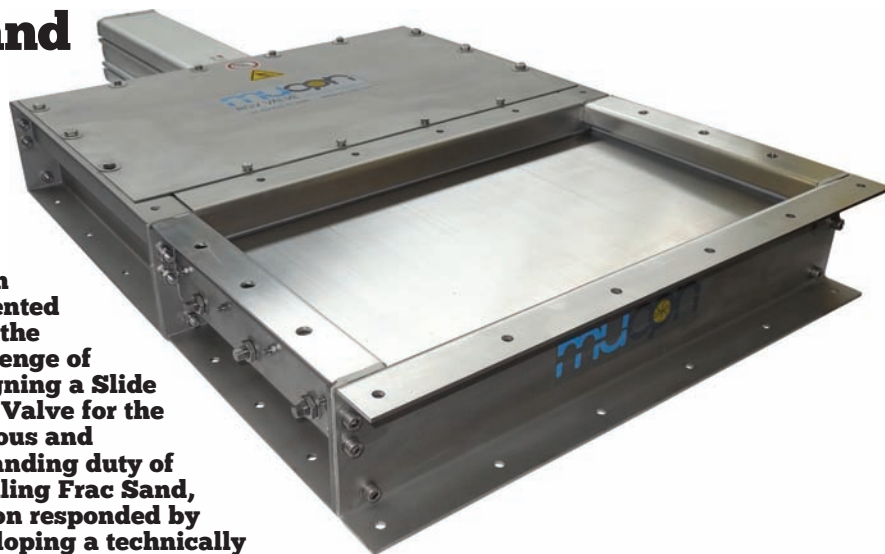
Endecotts "SieveWare" calculates all common particle distributions as well as the characteristic values of the particle size, thus making it possible to present the results in standard presentation forms, such as tables and charts. Cumulative throughput or residual values, distribution density and histograms can be included in the standard particle size distributions.

All measured data can be printed, saved and exported as tables and charts



www.hub-4.com/directory/9239

Mucon develops a superior slide gate valve for handling Frac Sand



When presented with the challenge of designing a Slide Gate Valve for the arduous and demanding duty of handling Frac Sand, Mucon responded by developing a technically superior solution.

The Requirement:

To develop a Slide Gate Valve to satisfy the application and the technical requirements for handling Frac Sand or similar, for example;

- To isolate the discharge flow of Sand on the outlet of various storage vessels, such as Silos, Hoppers, Rail Cars and Mobile Bins.
- Provide the ability to regulate the discharge rate of sand.
- Provide infinite variable control for the discharge of sand.
- Select construction materials and coatings to provide the best wear and weather resistance.
- Ability to easily replace worn parts.
- Ability to maintain the valve while in position.

The Solution:

Following a period of extensive testing and prototype development with various grades of sand and other materials, the Mucon design team developed the special RGV-DC Roller Gate Valve specifically to meet the demands of handling Frac Sand.

The result is a superior design heavy duty Roller Gate Valve with the following features and benefits;

- A Diamond Notched Slide Blade to provide a regulated flow of sand.
- A heavy duty electric actuator to provide infinite variable positioning of the Slide Blade, allowing improved control of the discharge flow of sand.
- Contact Parts such as the Slide Blade and Inlet Baffle are constructed in 'Hardox' abrasion resistant material to maximize service life.
- The Contact Parts are designed to be easily replaceable.
- Roller Bearings are protected from material flow.
- Superior design self-loading seals are built-in to minimize product leakage to the valve body.
- The maintenance and replacement of many internal operating components is achieved without having to take the valve 'offline' from its operating position.

The Mucon RGV-DC Roller Gate Valve:

Specifically designed to meet the needs and demands of Frac Sand applications, the Mucon RGV-DC Valve is available in an extensive size range and customizable options, including:

- Size Range - 6" (150mm) to 24" (600mm).
- Special custom sizes up to 55".
- Electric, Pneumatic and Hand wheel actuation.
- Variety of materials for valve construction.



www.hub-4.com/directory/15125

Introducing the NEW RUD L-VLBG Lashing VIP ring for Bolting



RUD are proud to offer the innovative L-VLBG lashing point for top quality lashing solutions:

The NEW L-VLBG lashing point offers the ultimate solution for safety in lashing heavy loads. The innovative lashing point rotates 360° in all directions and the suspension ring pivots 180°.

Safety is paramount across all RUD products and the L-VLBG lashing point is a great example of this. The lashing point is clearly marked with the lashing capacity for all loading directions (LC marking in daN).

The original RUD bolt is supplied with special corrosion protection, Corrud-DT and offers clear markings on the bolt head indicating the thread size, batch number and class of strength. The bolt is captive but easily exchanged therefore reducing the use of improper standard bolts. Variable bolt lengths are available for tapped or through holes.

The clamping spring works as a noise reduction device and holds the suspension ring permanently in the requested position resulting in ease of use of the lashing point.

The L-VLBG lashing point provides quick and easy installation and assembly with a flat ring wrench or allen key. RUD Chains offer a wide range of lifting and lashing applications covering a working load capacity range from 0.1 to 250 tonne and lashing capacity from 3000 to 32000 daN for heavy duty lifting and lashing projects.

The RUD L-VLBG lashing point can be used across a variety of sectors from lashing for MOD applications to heavy and abnormal loads for road haulage, load beds, cargo, offshore, rail, construction and plant to name a few.



Wessex Demolition choose Lehnhoff Variolock as the best fully automatic quick coupler on the UK market



After a visit to the Lehnhoff factory in Germany, Wessex Demolition chose to invest, and are now delighted to be enjoying the benefits. Having tested other makes of Quickcoupler available on the UK market for an extended amount of time, the company opted for the Lehnhoff Variolock System supplied by Worsley Plant.

One of their first projects with the new system involved the demolition of a former college in Slough, to make way for a new development of much needed housing stock. The two storey steel framed building dated back from the 1970s. The building was vacated with many of the fixtures and fittings remaining inside with the Wessex team having to sort and recycle as much as possible before any structural demolition could take place.

The Slough site was home to a pair of excavators sporting the Lehnhoff system including one of the company's latest Volvo EC250EL excavators and the first machine to have the system fitted, a Doosan DX300LC.

Site Manager for the project, Paul Beaumont explained that the Doosan fitted with the Lehnhoff system has been on site for a few days and has made an instant impact on the speed at which the project has moved forward. "The tried and tested system is very good. We are always using the correct tools for the job now, no more making do. We must save at least half a day per week with not having to use the older, non hydraulic couplers."

The heavy duty design of the unit has impressed Wessex Demolition's Contracts Manager Ashley Grant. "One of the benefits is the metric to metric couplings on the unit, there is no downsizing to imperial dimensions meaning the flow of hydraulic oil is always at its optimum levels. The build quality is second to none with a pair of integrated lifting hooks on the unit meaning we are able to undertake any lifting duties safely."

To meet current safety guidelines, the Lehnhoff units have a bright green indicator pin fitted above the front jaws allowing the operator to have a visual indication of whether the attachment is secure or not. To provide a positive and rattle free connection the rear locking pins have a tapered top edge allowing a tight grip to the attachment and are always under pressure to ensure the attachment stays connected at all times. The VL250 units are fitted with five valve ports to allow a wide variety of attachments to be utilised. Two - 25mm, two - 12mm and a single 20mm port are all positively connected to the valve block

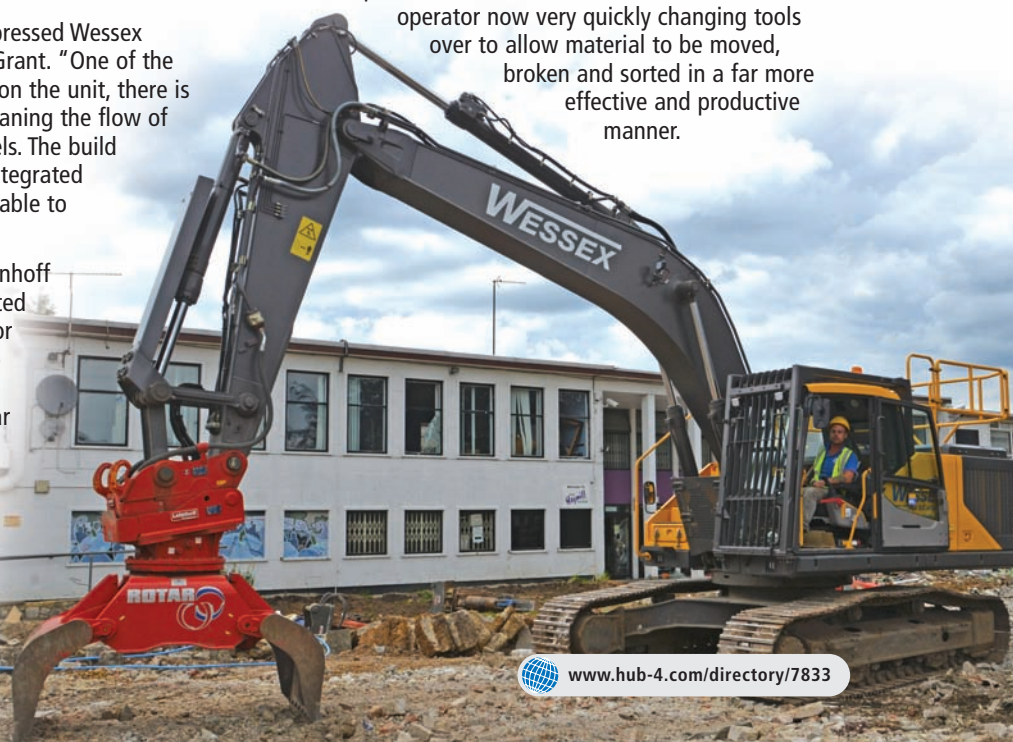


situated on the attachment and allow a leak free and reliable connection at all times. The larger ports allow the oil to flow at a lower temperature giving greater fuel savings over other hitches.

The lack of trailing hoses is another plus point for Wessex. Both the cost in repair and downtime, will be massively reduced with the new system, but also the environmental benefit of not having leaking fittings or burst hoses will help the company.

Both units were being put to good use swapping quickly from bucket, to hammer, to sorting grab. Another benefit of the Lehnhoff system is the large scope for compatibility across weight ranges. The units are capable of using attachments normally run on 20 to 40 tonne excavators which means that a smaller fleet of attachments are now needed, resulting in lower purchasing costs.

The way in which the Lehnhoff system has altered the operational methods is clear to see with the operator now very quickly changing tools over to allow material to be moved, broken and sorted in a far more effective and productive manner.



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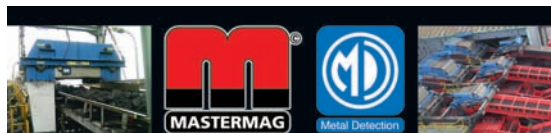
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Introducing the **NEW** **Terex® Finlay C-1545** **Cone Crusher**

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The large hopper/feeder has a metal detection and a purge system to protect the cone and reduce downtime by removing metal contaminants via the purge chute.

Additional benefits include, rapid set up time, ease of maintenance and advanced electronic control system.

Key Features:

- ▶ Fuel efficient direct drive transmission via a clutch.
- ▶ Hydraulic Tramp Relief System with automatic reset protects the chamber and minimises downtime.
- ▶ Metal detection system on feed belt with 'auto-stop' protects the cone from tramp metal and the purge system removes contaminants from the machine.



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