



Check out the very latest industry news at  
**www.hub-4.com**

**Issue 15**

**Global News and Information** on the Bulk Materials Handling, Recycling and Quarrying Industries

# The Future of Mobile Batching Technology



**FOR USE IN:** Bridge Building - Wind-Farm Bases - Paving & Slip-Forming - Road Construction  
Car Parks - Ports & Airport Construction - Power Plants - Apartment Blocks - Tunnels - Canals  
Large Housing Developments /Hi-Rise - Factories/Warehouses & Warehouse Flooring

**www.rapidinternational.com**

**RAPID INTERNATIONAL LTD**  
Tel: +44 (0) 28 3884 0671  
Email: [info@rapidinternational.com](mailto:info@rapidinternational.com)  
Web: [www.rapidinternational.com](http://www.rapidinternational.com)



Twin Shaft Mixer



Pan Mixer



Planetary Mixer



Jetwash  
System





Combined Productivity



On site mobility



High capacity

## Mobile crushing and screening in Action

Sandvik now offers a wide range of light, medium and heavy mobile crushing, screening scalping solutions for quarrying, recycling, demolition, contracting and mining applications. Our mobile units meet the very highest specifications for mobility, both on site and on road transportation. Fully tracked, they are compact, highly productive, and offer the very highest levels of performance - either as standalone units, or in conjunction with other members of the range.

#### SANDVIK MINING AND CONSTRUCTION

UK CONTACT KIMBERLEY PAGE, HEARTHCOTE ROAD, SWADLINCOTE, DERBYSHIRE, DE11 9DU

T: 0044 (0) 1283 818163 F: 0044 (0) 1283 818340 [mobilecs.smcuk@sandvik.com](mailto:mobilecs.smcuk@sandvik.com) [www.miningandconstruction.sandvik.com](http://www.miningandconstruction.sandvik.com)

IRL CONTACT AINE KELLY, TULLYVANNON, BALLYGAWLEY, CO. TYRONE, NORTHERN IRELAND, BT70 2HW

T: 0044 (0) 28 8556 6123 F: 0044 (0) 28 8556 7007 [mobilecs.smcuk@sandvik.com](mailto:mobilecs.smcuk@sandvik.com) [www.miningandconstruction.sandvik.com](http://www.miningandconstruction.sandvik.com)







# Concern at cuts

**An equipment supplier to the quarrying industry told Hub recently that it has been, thus far, a better year than last year, as long as we don't get a double dip in the next six months. It's a view shared by many. Whether this happens or not, again there is a consensus of opinion - we don't know.**

The major problem would appear to be confidence but with reduced public spending new work is likely to be sparse. Interest in second hand and hire sectors seem to be reflecting this lack of confidence added to the fact that obtaining finance remains difficult for those who feel they have to buy now, having delayed equipment investment for so long. So the banks need to be on side.

As for the confidence issue? Well, the Mineral Products Association (MPA) believes the ability of the mineral products and construction industries to support sustained economic recovery has become more difficult following the Comprehensive Spending Review (CSR).

*"We are extremely concerned about the impact of the CSR for three reasons,"* MPA executive director, Simon van der Byl said.

*"First, the scale of cuts to public capital investment announced in the CSR will significantly limit the contribution which construction and manufacturing can make to the economic recovery. The chancellor announced a 9% increase in current spending over the next four years, but he also announced a 21% cut in public capital investment, so economically productive investment will account for only 6% of total public spending by 2014/15.*

*"Secondly, government has significantly increased business costs by the decision to turn the £1 billion pa Carbon Reduction Commitment (CRC) Energy Efficiency Scheme into yet*

*another environmental tax, having previously promised that the scheme would be revenue neutral.*

*"Thirdly, government assumes that its planning reforms and localism agenda will boost housing and other development. However, there remain major concerns about the increasing inertia that the dysfunctional plan led system continues to create coupled with increasing parochialism at the local level which can only constrain development."*

Mr van der Byl added: *"We understand that times are tough but this makes it all the more important that government works with industry to generate economic growth.*

*"The disproportionate cuts to public investment will reverse the construction improvements which have helped give a comparative improvement in economic growth in the last six months and it is vital that proposed new mechanisms to generate private sector investment in UK infrastructure are implemented as quickly as possible.*

*"The new tax burden of the CRC, announced without warning or consultation, risks undermining trust between industry and government as well as imposing very significant additional costs on industry.*

*"The net result is an extremely disappointing CSR for our sector and for the economy as a whole."*

Many describe the £81 billion of public spending cuts, at a time of global uncertainty as Britain's biggest economic gamble in a generation. The true outcome will only be apparent in the years to come. Ultimately we can only hope that the gamble pays off and that we begin to see more signs of confidence, and fewer signs pointing towards a double dip within the next six months.

## CONTENTS

COVER STORY	2
NEWS	4
RECYCLING	11
Recycling on the A303	
Aggwash proves itself at JPE	
Solving the unsolvable	
New waste processing plant in open day	
Flannery's new jaw crusher	
JCB unveils first ever dedicated material handler	
Oscillation advancement delivers 2.8 acres of dust suppression	
Focus on recycling	
First Liebherr industrial rehandler for A.Brotherton	
A touch of glass	
Case debuts materials handling duo at RWM	
QUARRYING	22
Washing crusher dust stockpiles at Gleeson Quarries	
Gallagher celebrates 20 years at Hermitage	
More effective than standard harp and piano wire screen cloth	
Mobile success in Oman	
Larger shovels for Day Aggregates	
Lack of wear protection is costing UK Bulk Handling	
Wear parts pass the test	
Eliminating settlement ponds	
FEATURE	33
Aggregate company backs job seekers	
MATERIALS HANDLING	35
The big screen	
Ship loader conveyor upgrade in Port of Seward	
PRODUCTS	39
Green Weigh to recycle your weighbridge	
Karcher launches award-winning high productivity scrubber drier	
Terex Finlay J-1480 tracked jaw crusher now available	
Silt busting the easy way	
Bag dump system has integral compactor, dust collector and flexible screw conveyor	
CMB International set to launch the all new T88i Tracked Crusher	
CONVEYOR PRODUCT FOCUS	42



HUB DIGITAL MEDIA LIMITED  
27 OLD GLOUCESTER STREET, LONDON WC1N 3AX

## Autumn 2010

**Ross Matthews** - Editor

07711 347701

Email: ross.matthews@hub-4.com

**Daren Thomas** - Sales Manager

Mobile: 07719 740736

Email: daren.thomas@hub-4.com

# Supplying Heavy Duty Machinery to the Concrete Industry for Over 40 Years...

Rapid International Ltd is recognised as one of the world's leading manufacturers of concrete machinery. Established in 1969, Rapid International Ltd is a dynamic and innovative company specialising in the manufacture of equipment for the concrete, construction and environmental industries. The company is proud to manufacture top quality, long lasting machinery which in turns produces top quality, consistent concrete for their clients.

## PRODUCT RANGE

### Twin Shaft Mixer



3m<sup>3</sup> or 4m<sup>3</sup> output

### Pan Mixer



0.5m<sup>3</sup> – 4.0m<sup>3</sup> output

### Planetary Mixer



0.375m<sup>3</sup> – 3m<sup>3</sup> output

### Jetwash System



4 Minute washout  
90 litres water per min

### Mobile Continuous Mixer



- Fully self contained
- Set up in less than 3 hours
- High output pugmill style mixing chamber
- Ideal for RCC & Soil stabilisation

### Rapidbatch 120 - Mobile Batching Plant



- No foundations required
- One day for erection
- Integral twin-shaft mixer
- Running costs from as little as 39p/m<sup>3</sup>

## Rapid Mobile Continuous Mixing Plant Speeds up Production in Soil Stabilisation Project



### PROJECT:

Soil Stabilisation of County Park

### LOCATION:

Arlington, VA, USA

### SUB CONTRACTOR:

AECOM, Arlington, USA

### PROJECT REQUIREMENTS:

- Excavate approx. 36,700m<sup>3</sup> soil

- Relocate soils to placement zones on site
- Stabilise approx. 19,115m<sup>3</sup> of highly contaminated soils using 8.5% Portland Cement blend by weight

### METHOD USING RAPIDMIX 400 C:

- Untreated material goes through aggregate bins
- Neutralising additives are added from the on-board silo
- All materials mixed through twinshaft continuous pugmill mixer
- Mix is transferred onto the outgoing conveyor and discharged through the gob hopper.

*"I can say with confidence that the Rapid Mix plant is far superior to our original plant it replaced on site in many significant ways. Reliability has been flawless. Process controls regarding reagent mix consistency have been equally dependable. Daily clean-up design considerations could not have been more well done. The mill operates at noticeably low noise levels and the production rate has left me with only the problem of keeping the reagent deliveries scheduled quickly enough."*

**Bill Haynes- Project Manager,**  
AECOM, Glenn Allen, Virginia USA



# No Mountain too High for the Mobile Batching Plant from Rapid International



Rapid International Ltd recently supplied their new mobile concrete batching plant, the Rapidbatch 120 to Essex-based civil engineering firm and contractors CA Blackwell. The mobile plant enabled CA Blackwell to carry out production of concrete at the remote location of the Clyde Wind Farm in Scotland.

The Clyde Wind Farm is situated between Abington and Moffat in Scotland covering an area of 47.5sq km and is divided by the M74 motorway. CA Blackwell was appointed as the main Contractor of the south section of the site in South Lanarkshire which consists of 52 wind turbines and is part of Europe's largest approved onshore wind farm. The mobile batching plant allows them to produce concrete for the turbine bases with each base requiring 360m<sup>3</sup> of

concrete. Steve Johnson regional director of Blackwell spoke of his satisfaction with the mobile batching plant: "We have been delighted with the Rapidbatch 120 from Rapid International. It has been ideal for this project and the support provided by Rapid has been second to none."

The mobile batching plant manufactured by Rapid International, is the first of its kind in the UK to be purchased by a contractor. The plant allows consistent high output and quality concrete to be produced. The batching plant is fully mobile making it ideal for projects in

remote areas as concrete is mixed on-site reducing transport and installation costs. The Rapidbatch includes Rapid's very own 3m<sup>3</sup> twin shaft mixer which produces a very high quality homogeneous concrete mix. Short mixing times allows for increased production, up to 120 m<sup>3</sup> of concrete per hour. The Rapidbatch 120 has a compact modular arrangement that can be fully erected within only 1 working day.

The Rapidbatch 120 has also been successfully supplied to Lafarge UK and used for the construction of the Milford Haven Power Station in South Wales.



## RECENT PROJECTS:

- **Bullivant Taranto Ltd, Northern Ireland**  
*Concrete Pan Mixer & Mixer Washout System*
- **Bardon Concrete, Duntilland, Scotland**  
*Static Batching Plant*
- **Milford Haven Power Station, Lafarge**  
*Mobile Batching Plant (Rapidbatch 120)*
- **Presa General Francisco J. Mujica Canhondo Dam, Mexico supplied to CEMEX Mexico**  
*Mobile Continuous Mixer (Rapdmix 400C)*



## RAPID INTERNATIONAL LTD

96 Mullavilly Road, Tandragee, Craigavon, Co. Armagh, N. Ireland BT62 2LX

Tel: +44 (0) 28 38 840 671 - Fax: +44 (0) 28 38 840 880

Email: [info@rapidinternational.com](mailto:info@rapidinternational.com) - Web: [www.rapidinternational.com](http://www.rapidinternational.com)





# Hanson signals confidence in future demand

**Hanson UK has signalled its confidence in an upturn in demand for construction aggregates by securing planning consents for five quarry extensions in the last 12 months. Together they contain nearly seven million tonnes of sand and gravel.**

Land and mineral resources director Mick Daynes said: "Lead times for securing new permissions, even small extensions, can be anything from two to five years. It's important that we look ahead and ensure we are in a position to benefit when market conditions improve."

The five extended sites are at Earls Barton in Northamptonshire, Whiteball near Wellington in Somerset, Rickneys, near Ware in Hertfordshire, Newington in Nottinghamshire and Baston Fen, Lincolnshire.

The Rickneys application and subsequent negotiation of over 50 planning conditions, which took nearly three years, was one of the most time-consuming Daynes had ever experienced.

*"It involved planners, lawyers and the quarry liaison group, who we met on at least a dozen occasions, and who fought hard over the wording of every single condition,"* he said.

The permitted area contains 1.24 million tonnes of sand and gravel. The quarry is currently mothballed and a further planning application will be required to erect a new processing plant.

At Earls Barton, the 155 hectare western extension will release 2.6 million tonnes of sand and gravel. The material will be transported to the existing processing plant off Station Road via a conveyor, passing through a culvert under the road.

The site will be restored to a combination of agricultural land, lakes, reed beds and wet woodland, which will require two million tonnes of inert landfill - soils and fill materials - to be brought in.

Materials quarried at Newington will be transported to nearby Auckey quarry for processing. A key condition of the consent was to agree routing for HGVs, along with a long-term management plan for the restored site and the establishment of a management committee.

The output limit has been increased to 150,000 tonnes a year and the southern area has to be worked over seven years.

The Whiteball permission for a further 1.4 million tonnes at Town Farm, Burlescombe, is the latest in a series of extensions to the site on the Somerset/Devon border. The material will be transported to the processing plant at Whiteball in road vehicles.

By contrast, this application was relatively straightforward. It took just four months from submission to gaining approval from the planners.

A north eastern extension at Baston Fen No 1 quarry in Lincolnshire contains around 700,000 tonnes of sand and gravel.

*"Our in-house team has worked hard to secure these important permissions," said Mick Daynes. "Having tracked their progress, I know there have been some difficult issues to address but the results leave us well placed to sustain our current market and take advantage of the upturn when it comes."*

## Responsible sourcing

Hanson UK is the first brick manufacturer to achieve BES 6001 Responsible Sourcing of Materials (RSM) certification for all products from its UK brick production sites. The 'very good' rating covers all nine production sites servicing the UK market.

The company has also been certified for its aggregate blocks, precast concrete and block paving products, covering an additional six factories.

The announcement follows Hanson's certification of Thermalite aircrete blocks in May this year and its ready-mixed concrete and aggregates businesses in autumn 2009.

Martin Crow, Hanson UK's head of sustainability, said: *"This certification means that the RSM standard has been awarded to all of Hanson's aggregates, concrete and building products which encompasses over 300 UK production sites. It also takes us a big step forward towards our goal of obtaining the standard across all our product lines from all production sites."*

The BRE Environmental and Sustainability Standard (BES) 6001: 2008 covers the environmental and social issues for organisational management and supply chain management, including all the processes from the origin of raw materials, through all stages of the manufacturing process to point of sale.

For the client, specifier, distributor or end-user, this accreditation provides assurance that products conform to environmental impact specifications. Responsible sourcing is recognised within the Code for Sustainable Homes (CSH) and BRE Environmental Assessment Method (BREEAM), counting towards the credits required to assess the code level of a building.



[www.hub-4.com/directory/4465](http://www.hub-4.com/directory/4465)



Shaun Davidson



Emmanuel Rigaux

## New boss at Lafarge Aggregates

**Lafarge Aggregates & Concrete UK, has a new man at the helm of its Aggregates division. Emmanuel Rigaux joins the UK team following the move of Robert Whetstone, former managing director aggregates, to Lafarge's operation in the Eastern US.**

Emmanuel, who has been with Lafarge since 1999 after a short stint in management consulting, is no stranger to the UK where he is moving to for the third time. He said:

*"I moved here first as a student, then as part of my national service. It is a great honour for me to come back as the managing director of our aggregates activity. Robert has had a deep, extremely positive impact on this business, and I strongly believe we can leverage further on the unique assets that we have here in the UK."*

Safety, profitability and innovation are at the heart of Emmanuel's vision, which he will share on the field through the site visits he intends to carry out in the coming months.

There is also a new leader of the company's Asphalt and Contracting division. Shaun Davidson returns to the UK after spending almost two years as Lafarge A&C Vice President General Manager, Concrete, for Central Europe. No stranger to the asphalt market as Shaun was previously director of Lafarge's UK Asphalt business.

Shaun succeeds Chris Plant as Managing Director Asphalt & Contracting with Chris moving on to become Divisional Head of Health & Safety (Aggregates & Concrete).



[www.hub-4.com/directory/8830](http://www.hub-4.com/directory/8830)



From October 1<sup>st</sup> 2010 SEW Eurodrive Ltd will supply IE2 – High Efficiency motors as its standard solution on all geared motor and motor units.

**SEW**  
**EURODRIVE**

## SEW goes Green.....

In June 2011 EuP Directive 2005/32/EC will make it mandatory to supply IE2 motors for all standard non-braked applications.

SEW is taking the lead in the race to reduce Carbon Emissions by supplying IE2 motors as its standard solution now, 9 months in advance of the new EuP legislation.

As a global leader in Drive Technology SEW takes its contribution to environmental issues very seriously.

As part of a package of measures over the last year which has included the introduction of both our IE4 Super Premium Efficiency **MOVIGEAR**® product and our IE3 DRP motor range SEW Eurodrive has set itself apart from the competition to become a leader in Energy Efficient Drive Solutions.

SEW's Technical Sales Staff are now visiting customers to talk about both the new EuP legislation and the effects it will have plus to introduce our comprehensive **effiDRIVE** energy saving concept which helps enable customers to tap into all energy saving potentials, it consists of:

1. Energy Efficient Products
2. Energy Consulting
3. Energy Efficient Solutions

Email: [energysaving@sew-eurodrive.co.uk](mailto:energysaving@sew-eurodrive.co.uk) to arrange for your local SEW Sales Contact to visit you to talk about how we might help you reduce your energy usage and save you money.



**effiDRIVE**®

**SEW-Eurodrive Ltd.**

Normanton, West Yorkshire  
WF6 1QR

Tel: +44 (1924) 893855

Fax: +44 (1924) 893702

[www.sew-eurodrive.co.uk](http://www.sew-eurodrive.co.uk)

<mailto:sales@sew-eurodrive.co.uk>



## Huge order from London plant hirer

*Pictured (l-r) are JCB Heavyline Sales Manager (South) Steve Bradley; UK and Ireland Sales Director Yvette Henshall-Bell; Lynch Plant Hire Directors Merrill and Robert Lynch and Greenshields JCB Major Accounts Director Paul Serby.*



**JCB has won a multi-million pound order from London-based Lynch Plant Hire. It includes a fleet of 20 JS220 and 20 JS130 tracked excavator models in addition to two wheeled excavators, a JS175W and a JS130W - all manufactured at JCB Heavy Products in Uttoxeter, Staffordshire.**

The excavator order has been placed in response to increased demand from Lynch Plant Hire's customers for machines that can operate in the demanding road and rail sectors. The deal also includes 40 JCB Loadall telescopic handlers and six backhoe loaders made at JCB's World HQ in Rocester.

Several of the machines have already been delivered and are already performing on high profile projects across the UK. This includes the JCB wheeled excavator models carrying groundworks as part of the M25 motorway widening scheme.

Lynch Plant hire director, Robert Lynch said: "One of key criteria when selecting our plant is product quality - ensuring

that our customers have access to the best equipment available and that it is always up to the task.

"With this in mind, we have offered JCB Loadalls and backhoe loaders for over 15 years as they are universally accepted as the best machines on the market. When it came to expanding our tracked and wheeled excavator fleet we conducted trials of the leading models using our own operators to carry out the tests. We ultimately chose the JCB machines as the operator feedback was very, very positive, particularly regarding smoothness of controls and stability when digging.

"Equally important to us is back-up and both JCB and our dealer, Greenshields JCB have shown a great willingness to help us. We are confident they will provide us with excellent service whether it be working together to enhance the safety features on our fleet or with on-site support to minimise downtime for our customers."



[www.hub-4.com/directory/7003](http://www.hub-4.com/directory/7003)



*Smiles of success from the ConveyorTek management team, from left, Philip Trimble, Martin Buchanan and John McCall as plans are revealed for a new conveyor design testing facility that will create employment for design and project engineers.*

According to ConveyorTek's Philip Trimble this new testing service, being launched within a few months, will use industry leading design software and create additional local job opportunities for innovative design and project engineers.

The team at ConveyorTek has successfully secured several more prestigious contracts to supply conveyor components across the UK and Irish Republic and has been commissioned to design and manufacture a conveyor and screening system for a state of the art recycling centre costing 7.1 million Euros in Co Tipperary in the Irish Republic.

"Over the last 12 months ConveyorTek's main focus has been on strengthening our team with experienced personnel and delivering the highest standards of technical

support to our growing customer base," Philip Trimble added.

"Although trading conditions continue to be tough across many sectors of the materials handling industry ConveyorTek plans to continue investing in areas of most benefit to our customers."



*A conveyor and screening system designed and manufactured by ConveyorTek for a 7.1 million euro recycling centre in Co Tipperary.*



[www.hub-4.com/directory/11979](http://www.hub-4.com/directory/11979)

## Engineering firm expands

**ConveyorTek has celebrated its first year in business by announcing plans to invest in a new conveyor design testing facility.**



# Trade association defeats UK government in EU court

**The BAA has won its case in the EU General Court against the exemption or derogation from the Aggregates Levy in Northern Ireland. At present NI quarries pay on 40p per tonne Levy whereas UK mainland producers have to pay £2.00.**

The Court agreed with the BAA that the Commission had not conducted a diligent investigation of the Northern Ireland exemption or of the BAA's complaint. The Commission could not therefore lawfully decide that it was compatible with EU law. The BAA had raised a number of further points in this respect but the Court decided that upholding one of BAA's points was sufficient to declare the Commission's decision unlawful.

The AGL derogation for Northern Ireland involved State aid. However the EU Commission held that this was justified by reference to the 'Environmental Guidelines' that were in force at the time of the Decision.

The Court finding - that the Commission was wrong - effectively annuls its decision and the Commission must now reconsider whether the exemption is legally acceptable.

There would now appear to be four possible outcomes:-

- (a) The Commission could decide on different grounds that the exemption is justified but this is very unlikely for legal reasons.
- (b) The Commission could decide that the exemption was not justified and that any aid granted to date by virtue of its application is illegal. The Commission would then order the UK to recover illegally granted aid, plus interest. In the case of the NI exemption, this would involve a requirement that companies who had benefited from the exemption be obliged to make retroactive payments of the full amount of the Levy.
- (c) The UK Government could withdraw its State aid notification, eliminating the need for the Commission to take a further Decision. In practice, if it were to do this, the UK Government would almost certainly have to suspend the exemption and the Levy would be applied in NI at the full rate. This might avoid the need for operators who have benefitted from the exemption to make retrospective payments.

- (d) The UK Government might also seek to amend the exemption, in order to formulate it in a manner which would enable the Commission to approve it. In the interim, the same issues would arise with respect to aid granted to date as in scenario (c).

Association director Robert Durward said: *"We are delighted that the court agreed with us that the proper process was not followed with the NI derogation and that it will have to be revised. The previous UK Government proposed to devolve the Levy and this judgment now represents an excellent argument for it to be scrapped altogether."*

Now that the BAA has won the argument on discriminatory taxation, quarries in the Republic of Ireland who have paid the full level of tax on aggregate imported to NI may have a claim for repayment. Quarries in other parts of the UK may also be able to make a claim for repayment if they have supplied aggregates to NI.



[www.hub-4.com/directory/10927](http://www.hub-4.com/directory/10927)

## Mentor Provide Quarry Safety Passport Course



**Mentor is now providing the industry specific SPA Safety Passport Course for Quarrying. Training reflects HSE initiatives, covering health, safety and environmental awareness relevant to the extractive and mineral processing industry.**

The Safety Pass Alliance has extended the Safety Passport scheme across multiple sectors in an effort to reduce the number of accidents. The initiative is nationally recognised and all quarrying contractors are now expected to hold a Safety Passport. Those completing the course will receive a plastic photo card, a lot like a UK Driving Licence, which is valid for three years. This demonstrates to clients the contractor's awareness of health and safety, enabling them to commence with the job in hand.

Safety Passport training takes place over two days. The first day covers basic health and safety, the second focuses on sector-specific training for quarrying, including health and safety management of quarries, lifting operations, excavations, confined spaces and working at height. Mentor is also offering one day renewal courses for those who are due their three yearly refresher and one day quarry specific courses for those who are exempt from the day one of the basic course.

### Safety passport open course dates

Courses will be running from 01 October 2010 at various training locations throughout the UK but can also be delivered at customer sites. Dates for the safety passport courses are available on request or from the website.

### Book a course

To book a course or for further information, please contact Mentor on 01246 555222

For more information on the Safety Passport scheme visit <http://www.safetypassports.co.uk/>



[www.hub-4.com/directory/6755](http://www.hub-4.com/directory/6755)

## Sandvik to invest in manufacturing of crushing equipment

**Sandvik Mining and Construction is expanding its manufacturing of crushing equipment in Svedala, Sweden, and investing SEK 300 million in a new production plant.**

The nearly 6,000 m<sup>2</sup> production plant will be completed during early 2012. The plant will be fitted with the most modern production equipment for manufacturing key components for Sandvik's crushers, which are assembled not only in Svedala, but also in other countries.

The investment follows a decision earlier this year to also build a new distribution center in Svedala for spare parts for the European market.

*"Sandvik Mining and Construction has in recent years consolidated manufacturing to larger and highly efficient plants. In all locations in which we have manufacturing, it must be of world class. This applies to the highest degree to our facility in Svedala, where we also have our product development center for crushing technology,"* said Gert Sköld, CFO and vice president, Sandvik Mining and Construction.



[www.hub-4.com/directory/296](http://www.hub-4.com/directory/296)



## CRS Kinetic Flow Screens Join The Blue Group Distributorships Portfolio



Blue Group is pleased to announce that the company has entered into a distribution agreement with CRS (NI) Ltd of County Tyrone, and is now the appointed distributor for their innovative KF 44-18 Kinetic Flow Screen (flip flow screen) recycling equipment for England, Scotland and Wales. Flip flow technology is specifically targeted at the waste recycling industries but with a unique versatility which is equally beneficial in coal, soil, ballast and woodchip screening, separating fines material of 0-70mm size and most difficult sticky materials. Blue Group sees this addition to their product ranges as filling a gap in materials processing, allowing end-users to extract even greater volumes of recyclable fines material from the waste stream, after primary screening, for blending or further separation as single size saleable material. This increased extraction of recyclables also reduces tip-to-landfill volumes, saving transport costs and landfill tax while greatly contributing to environmental preservation.

Blue Group now has over 100 bespoke recycling plants in operation with customers in England, Scotland and Wales. Combining flat-bed or trommel screening, air separation, conveying systems and picking stations, these plants are proving to be both efficient and profitable for their customers. Now, with the added capabilities of the CRS KF 44-18 Kinetic Flow Screen system, Blue can offer this additional plant as part of a tailor-made configuration and, if required, the easily installed CRS screener can be retrofitted to existing plants to enhance the output.

Commenting on the new distribution agreement, Blue Group Chairman Pat McGeary said "We are probably the best known and most established distribution company for recycling equipment in the UK, with an enviable list of world-class products for screening, washing, conveying, crushing and shredding.



*As new technologies emerge onto this important market, it is vital that Blue Group is in the vanguard. In reaching this agreement with CRS, we are now able to offer our discerning customer base yet another link in the recycling chain with what is undoubtedly a versatile and innovative piece of equipment for reclaiming even greater volumes from the waste stream".*

### The CRS KF 44-18 Kinetic Flow Screen

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

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



[www.hub-4.com/directory/2260](http://www.hub-4.com/directory/2260)

## OFT investigation into UK aggregates market welcomed

The British Aggregates Association (BAA) has welcomed the announcement by the OFT that it is to open an investigation into the UK aggregates market. The BAA has already made a number of submissions to the OFT with regard to the marketing of dry aggregates, ready-mix concrete and asphalt products. The association is also assisting the OFT, the Competition Commission and the EU Competition Directorate with the ongoing investigation into the UK cement supply chain.

The BAA's primary concern is the UK market domination by five world players: Anglo American, Holcim, Heidelberg, Lafarge and Cemex. Environmental, logistical and social factors indicate that aggregates should be produced as locally as possible. This reduces delivery mileages and underpins local economies. However, the opposite has happened with the majors buying out and closing down viable quarries. The majors also practice vertical integration, which effectively disadvantages SME producers.

There are other areas where the BAA will advise the OFT. One of these being the planning system, which the association says fails to take proper account of competition issues, allowing the majors to dominate the consented reserve landbank in many areas.

Association director Robert Durward said: "An investigation of the UK aggregates market is overdue and is something we have long called for. In areas of the country where few independent companies remain prices are a great deal higher. The majors therefore have the ability to use this revenue stream to subsidise their activities in other areas to the detriment of smaller operators. The Minerals Products Association's response to the OFT announcement - defending the status quo in minerals planning - disregards the plight of smaller companies."

The Mineral Products Association has said that it will be happy to cooperate fully with the Office of Fair Trading (OFT) market study into aggregates announced today. The MPA says it is confident that the operation of the current mineral planning system will be proven to be sound and critical to the construction and manufacturing industries, which depend upon these essential supplies. The system has a proven track record of delivering a steady and adequate supply of aggregates over the last 35 years throughout periods of recession and growth. The current system originated in 1975 as a result of Sir Ralph Verney's Royal Commission and has generally worked well since.



[www.hub-4.com/directory/10927](http://www.hub-4.com/directory/10927)



MATERIALS HANDLING ENGINEERS ASSOCIATION

# 2011 BULK HANDLING CONFERENCE



MAY 11-12 2011

FOREST PINES  
CONFERENCE CENTRE  
NORTH LINCOLNSHIRE

## Call for Papers

A fresh and dynamic approach to our annual event.

As one of this Country's pre eminent Trade Association's the MHEA (now in its 73rd year) has an enviable history in the bulk handling sector for Material Handling with past and present involvement of some of the pivotal innovators in the field.

To reflect changes in the nature of the industry in recent decades, a strategic structural review has been implemented aimed at creating a new and invigorating conference format delivering greater value, interest and relevance to our members and guests.

The event has moved to a highly attractive North Lincolnshire, easily accessible location at the Forest Pines Resort Complex which provides superb facilities for business, conference and leisure. The timing has been amended to give a more balanced event over a Wednesday / Thursday, to allow time to travel on the Wednesday morning, and the offering the option of a sports event /leisure break on the Friday. The event will encompass keynote and plenary presentations, gala dinner and after dinner speaker entertainment.

Accompanying the conference will be a related exhibition, integrated into the conference area. Opportunities are available for event and item sponsorship ensuring outstanding opportunities for corporate entertainment and networking.

Moving from a specifically focussed technical seminar to a more all embracing industry Conference we aim to broaden the delegate profile and include all matters relating to bulk handling with a separate provision for commercial presentations.

Conference Papers will finally be determined by the contributions received but are likely to include:-

- Developments in conveying and material transport
- Drives and transmissions
- Loading, unloading, storage and reclaim
- Crushing, screening and washing
- Control of impact, abrasion and erosion
- Spillage and dust control
- Storage and reclaim
- Biomass handling
- Waste and recycling
- Control, metering and management systems
- Energy efficiency
- Operation and maintenance
- Regulatory compliance and H & S matters

Submissions relating to technical innovation or process improvements will be given preference, particularly those relating to heavy industries such as minerals processing and cement, metal manufacture, power, port operations, mining, waste processing and recycling.

Specific timetabled slots in the programme are available for commercial presentations which can also be arranged through the secretary.



Sponsored By

Institution of  
**MECHANICAL  
ENGINEERS**

Organised By:  
**The Materials Handling  
Engineers Association**



For further information please contact:

Peter Webster, MHEA Secretary

Tel: +44(0)1353 666298

E-Mail: [pw@mhea.co.uk](mailto:pw@mhea.co.uk)

Web: [www.mhea.co.uk](http://www.mhea.co.uk)

Initial submissions, in form of a synopsis, should be addressed to the secretary

Mr Peter Webster by e-mail to [pw@mhea.co.uk](mailto:pw@mhea.co.uk)

To be received by Dec 31st 2010.



## The most effective screen on the market.

Riverside Machinery Ltd is the sole UK dealer for Neuenhauser Environmental, a German based company who are global leaders in the manufacturing of Star Screen Systems, Windshifters, Screening Buckets and complete Turnkey Waste Recycling Systems.

The Neuenhauser Star Screen is accepted as the most effective Star Screen in the market place due solely to the quality of product and product back-up through our spare parts and service centre based in Tamworth.

The advantages of the Neuenhauser Star Screen over the conventional flat or trommel screen are numerous:

- Higher tonnage per hour.
- More efficient separation of materials.
- The ability to screen at various sizes, due to variable speed of stars.
- Standard 3 year warranty

In conjunction with the VAT rise in January 2011 any new or used Neuenhauser product purchased before 15th December 2011 will automatically have the VAT amount (17.5%) discounted from the sale. "But I get the VAT back" we hear you say. Yes you do, but think what a 17.5% saving could do for your cash flow over 3 months.

In addition to the Neuenhauser product range we also stock used crushing and screening equipment from various manufacturers. At our new facility in Tamworth we can fully refurbish any piece of quarry, demolition or recycling equipment

So call Riverside Machinery now on 0800 689 9024 for more information on any of their products and we will be happy to assist you in every way.



[www.hub-4.com/directory/12459](http://www.hub-4.com/directory/12459)

## MARKET PLACE



Global News and Information on the Bulk Materials Handling, Recycling and Quarrying Industries

### INSURANCE

There are worse things in life than death.  
Have you ever spent an evening with an insurance salesman?

Woody Allen

Richard Wallis have been providing insurance schemes and bespoke covers to all areas of the waste industry for over 40 years now. From Skip Hirers to Transfer Stations, Waste Recyclers to Landfill Sites we have the experience and expertise to help you and your clients.

For further information, please contact a member of our team on 0121 778 5751 or visit our website [www.richardwallis.co.uk](http://www.richardwallis.co.uk)

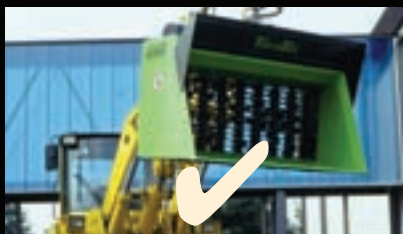
Richard V WALLIS

**GREAT QUOTES GREAT COVER**

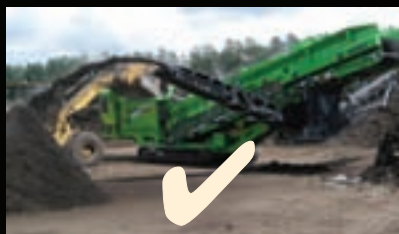
**RIVERSIDE  
MACHINERY**



**neuenhauser**



**QUALITY**



**ADVANTAGE**



**PROFIT**

All Neuenhauser Products are built in Germany giving you the highest level of engineering and trouble free screening.

Screening at high tonnage, screening wet and sticky material, screening 12 months of the year.

Neuenhauser offers you maximum profit potential through superior quality and service backup.

**Neuenhauser offer you their range of star screens in a range of format which includes wheeled, tracked, static and excavator or loading shovel mounted.**

**The Neuenhauser star screens are used in wide ranging application which include: greenwaste, wood, soils, paper, plastics, coal and many many more.**

**Call now for a demonstration +44 (0) 800 689 9024**

**Head Office:** 26 Greenwood Glen, Belfast, CO. Antrim, Northern Ireland BT8 7WE  
**UK Depot:** Unit J, Riverside Industrial Estate, Atherstone Road, Fazeley, Tamworth, B78 3RW  
Tel: +44 (0) 800 689 9024 Fax: +44 (0) 800 471 5099 Email: [john@riverside-machinery.com](mailto:john@riverside-machinery.com)



# Recycling on the A303

**Raymond Brown's £2 million A303 Recycling Facility was officially opened by Group MD Kelvin White on 29 September.**

Councillors, clients, employees and local residents joined the company for a tour of the site to view the complex waste recycling operations. The visitors were able to witness the recovery and recycling of wood, plastic, cardboard, paper, soil, aggregates and concrete, which saves the region's landfill sites from unnecessary waste.

Waste weighing the equivalent of more than 290 double decker buses has been diverted from landfill and recycled since the facility opened in June 2010. Before the redevelopment, the site could recycle 35% of all the waste received; this figure now stands at 77%.

RBMR director Steve Clasby said: *"The amount of waste we are now able to convert into useable products is just incredible. The site is really helping to support sustainable living across Andover and the surrounding area."*

A large marquee was erected on the adjoining ground of Owl's Lodge Shooting School, where more than one hundred and fifty guests were given the opportunity to enjoy a light lunch, whilst networking with industry professionals and browsing the company display boards, showing the capabilities and diversity of the Raymond Brown Group. All guests were given the opportunity to take part in a taster session of clay pigeon shooting guided by Olympic Gold Medalist, Richard Faulds.

David Hamblion of Grant Thornton said: *"I first saw the site shortly after the company had acquired it, to my untrained eye it looked like a field with a few skip bins on it, the transformation is therefore amazing; leading technological waste management, employment opportunities and lots of activity. I am sure that you are very proud of what had been achieved here."*

Alan Wilkins of Evan Langford remarked: *"I found the tour of your new facility to be of interest and very informative."*

There were 3 days of events including the formal opening on the Wednesday 29th. The second day guest list included clients and customers who were shown how the waste materials they discarded could be recovered for re-processing and recovery. Through this method it was possible to demonstrate the high levels of recovery achievable. Metal, cardboard and plastics are sent away within the UK for reprocessing. Wood is shredded and sent of to renewable energy power plants. Hardcore construction materials are sent to the outside processing area for crushing and screen to produce construction materials for local markets.

On the third day the local community were invited to come in and see what was involved in the operation of the site. A steady stream of residents and their children were taken around the site. Staff were challenged with a never ending stream of questions to assist with helping the visitors.

## The recycling operation

Raymond Brown acquired the site in 2008. At this point there was just a temporary planning permission construction of the bunds for the shooting grounds and limited area for processing of construction and demolition waste.

The company had been an active participant with Hampshire's strategy "More from Less" which sought to reduce waste in the County by treating it as a resource. One outcome from the project was the identification of the need for a Materials Recycling Facility (MRF) in the north east of the county.

The A303 site with direct access from the A303 (east and west) with the link to the A34 (north and south) made this an ideal location for an MRF.

After initial discussions with the planners a planning application was submitted and consultation took place with the local community. A display cabin was placed on the site with a full presentation of the application for local residents to view.

The site development was progressed by considering the various waste streams that would be handled at the site and how they could best be managed. Initial considerations were about simple processing in the open.



At the time the project was being developed there was a call from the Waste resources Action Programme (WRAP) offering support for projects to try and get a higher level of recovery.

After looking at various other operations it was recognised that with more investment a more comprehensive recovery plant could be developed. The concept of dealing with the skip waste within the building was progressed with the lighter waste being treated through a different stream to the heavier materials to optimise recovery. Blue Group was selected to help to design the plant layout. The plant was designed and built by its contractor Kiverco. Raymond Brown Construction was engaged to design and develop the building shell and foundations. The project was subsequently approved by WRAP who offered 24% grant support.

Construction started late in 2009, with earthmoving to reshape the screen banks to create the larger footprint for the site. The excess materials were moved to develop the screening bunds required around the adjoining Clay Pigeon Shooting Ground for noise retention. The first concrete was poured February 2010 with the erection of the building following on in April once the slab and walls had been constructed. Blue Group came onsite towards the end of April. The plant build took 8 weeks. Initial trial running took place in May using generators due to delays in getting mains power to the site. The building was handed over in mid June with full operations commencing from early July when mains power was connected.

The site has a Standard Permit from the Environment Agency for Waste Transfer and Treatment. It is operated under our Factory Process Control (FPC) process and sets out how the operations are controlled and managed.

Materials arrive at the weighbridge and once compliance acceptance has been checked waste is either sent directly as appropriate. Inert Waste is directed to the yard area to stock awaiting screening and crushing. It is segregate where possible to keep soil materials and clean concrete apart from mixed C&D waste. Mixed skips waste is sent to the MRF building - vehicles are held outside the building for a further inspection before being called in. Skips full of wood may be chipped externally as sorting will be limited.

For external processing initial processing is by screening to remove fines. Soil materials are put aside for blending with imported compost to improve. Oversize materials are reduced to specification by crushing. The machines, which are registered with New Forest District Council, have self-contained dust control. Products comply with the WRAP Protocol and are supplied back to the construction market. Wood is shredded to a product suitable as a bio-fuel. Dust suppression is deployed to avoid any environmental impact. Shredded wood is either taken to Slough for use in the Bio-Gen power plant or may be exported for a similar use.

For processing within the MRF, heavy materials with low levels of mixed waste are tipped off before going through a two bay picking station where wood and waste are removed. The resulting hardcore material is transferred to the external stockpiles for further processing through the crusher.

Lighter materials go via another route where a trommel removes fines, a picking station sorts recoverable wood, plastic (light and heavy), paper and card; rerrous is removed by an overband magnet and residuals go back into the building for dry storage before being shipped to landfill.

Finally, a baler packages up the various commodities for transit to recover plants.





# Aggwash proves itself at JPE

Under mid-September sunshine, Duo hosted three open days at JPE Aggregates' Elford Quarry, near Tamworth, to give customers the chance to view the Powerscreen Aggwash plant in operation alongside a mobile water treatment plant. JPE is operating the first Powerscreen Aggwash in the UK to process up to 60 tph of Construction and Demolition (C&D) waste and utilities waste at Elford. In addition to the Aggwash, JPE is operating a Gennaretti centrifuge mobile water treatment plant.

The Aggwash is a mobile wash plant that combines rinsing, screening, scrubbing and sand washing capabilities on a single transportable chassis. The unit can produce up to four grades of aggregate and two grades of sand at up to 60 tph.

When applying to reopen the 137 acre Elford Quarry, JPE Holdings faced a challenge. The company wanted to continue extracting 350,000 tonnes of sand and gravel reserves as well as dispose of C&D waste.

To do this required working with local environment agencies to ensure an ecologically sound plan for the site. Extensive environment and noise pollution regulations meant that JPE needed the right solution for this particular site.

During the years the quarry had lain dormant, a hole in the ground originally intended for landfill material had developed naturally into a fresh-water lake where local fishermen had started to stock fish, while wildlife such as geese and pheasant were naturally attracted to it. As part of JPE's planning application to reopen the quarry, the decision was made that the lake and surrounding areas in the

quarry should be retained and developed, in as much as the local council agreed that they were of "ecological and amenity interest."

JPE's ambitious restoration scheme sought to re-create many elements and habitats within this location including "open, species-rich floodplain grassland within areas of open water," a plan welcomed by Natural England. JPE now has planning permission to build luxury wooden log cabins near the Elford site.





The Aggwash system was transported to the Elford quarry in May 2010 and JPE now receives waste, process it, and then sell the washed aggregate it produces. The recycled aggregate is used for laneways, low grade concrete or asphalt, drainage and pipe bedding. Before the introduction of the Aggwash, the materials for these applications would have come from natural sand and gravel sources, at considerable extra cost, both for the buyers and for the environment.

The system set up on the site has an initial screen to remove the +60 mm, which is stockpiled, and the -5 mm sand. All the sand is taken down into a sump tank while all of the +5mm to 60 mm material continues through the system, passing beneath magnets to remove any ferrous metals. The stone goes into the logwasher where it is scrubbed to get really clean. The logwasher's blades force the material to rub against itself. This action breaks down any clay into its natural silt fraction, which is -75 microns. Spray jets in the washer force out lightweight materials such as wood and paper to the surface while the remaining material goes to dewatering screen. All of the lightweight

material such as rags, wood, paper and needs to be rejected to ensure the value of the product. A screen then takes out the waste material and allows the sand particles to go through with the water. The clean stone will then exit onto the final sizing screen with meshes sized to make 10, 20 and 40 mm - the three major products for the recycling market.

*"Aggwash has exceeded my expectations," says Dave Rogers, process manager for JPE Earth & Aggregates Solutions. He told HUB: "The product that comes out of the belts is a good material; we've had a lot of good feedback from customers. All we need to do now is get the stocks up. We have a contract for 40,000 tonnes starting next month so that will be drawing off approximately 500-600 tonnes a day, which is a large contract in the current climate."*

Due to his satisfaction with the performance of the machine, Dave already has plans to move the Aggwash to a second landfill site in two years where it will be used to process and sell material that otherwise would be sent to a landfill.



[www.hub-4.com/directory/680](http://www.hub-4.com/directory/680)





## Solving the unsolvable



Some five years ago a customer came to SE Davis & Son with a problem they thought Redditch-based construction and quarrying plant for hire company would be able to solve. As a result of undertaking the surface dressing contract with a particular county council over several years the customer had amassed a stockpile of several thousand tonnes of 'waste' chippings, the excess that had been swept up during the surface dressing operation.

These chippings were too valuable to 'write off' and dispose of, but not clean enough to be reused. The main problem faced by SE Davis & Son was that they were stockpiled on a disused airfield miles from the nearest water supply and there was not sufficient space (nor environmental permissions) for settlement lagoons.

SE Davis put together (by today's standards) a 'Heath-Robinson' solution that achieved the desired result and washed and screened the waste chippings into a reusable product.

It was a very steep learning curve and in the years that have followed the company has - as a result of the knowledge and experience it has built up - refined the process into the mobile washing systems that it currently operates.

In addition to the mobile centrifuges, cyclones and sand-plants that SE Davis & Son now operates, in late 2009 the company finished constructing the mobile plant that it used to wash the 'waste' surface dressing chippings for seven county councils' contractors this year from as far afield as Norfolk and Kent.

The number of councils that the company is washing for is growing year on year as it is not only cost effective for them but it is also kinder to the environment. As well as the obvious cost savings achieved by recycling the 'waste' chippings instead of importing new, the 'green' benefits speak for themselves. These include often recycling in excess of 90% of the 'waste' chippings and reducing the carbon footprint by not having to haul new chippings in from the nearest hardstone quarries, which are often over 100 miles away.

The plants have also been used to great success to wash other recycled aggregates including used railway ballast and a recycled 6F1/Type1 to produce a +20/-40mm drainage aggregate, a +10/-20mm recycled pipe bedding, and +4/-10mm recycled pipe bedding and a recycled sharp sand.

## New Waste Processing Plant Showcased in Open Day



**Iona Waste Systems demonstrated its new Airtrac 3200S in operation at an open day event, organised in partnership with Waste Processing Solutions (WPS) and held at Peak Waste, on the outskirts of Ashbourne in Derbyshire.**

Manufactured in Northern Ireland, the plant, which is tracked for mobility, incorporates a Hein Lehmann flip flow screen with a Westeria air separator and a magnetic head drum, to produce inert waste in the form of stone, lights, metals and fines, which can then be used for high-grade recycling and refuse derived fuel.

Particular benefits of the machine includes a pre-screening capability for 10mm, high moisture content fines, as well as precision setting options for all applications, airspeed, nozzle angle and conveyor positioning.

WPS - part of the Finlay Group of companies - is an appointed dealer for Iona Waste Systems in England and Wales.

Nigel Fisher, Group Operations Manager for BKP, was among those viewing the machinery. He said: *"It has got a lot of potential and I can really see the value of it. It's going to divert a lot of waste from landfill."*

Ean Noble of Moss Construction Aggregates was also present. He said: *"The machinery is very impressive with excellent screens. It's a great piece of technology."*

The Airtrac 3200S can handle a range of applications, including construction and demolition, residual, commercial, glass, wood, compost and scrap metal.

It will enable customers to recycle up to 95% of construction and demolition and/or construction and industrial waste material.

Hubert Watson of Iona Waste Systems, said: *"We've had a lot of interest and already sold the first machine at Hillhead in June."*

*"This machinery is the future for waste recycling, enabling revenue to be drawn from the process of waste materials."*

Dave Statham of WPS, added: *"Interest in the machinery is high. We've had some serious enquiries after visitors saw the plant in action."*



[www.hub-4.com/directory/12567](http://www.hub-4.com/directory/12567)







## Flannery's new jaw crusher

**Flannery Plant Hire (Oval) has expanded its modern fleet with the delivery of a new Terex Finlay J-1175 Jaw Crusher from Finlay Plant SE - introduced to convert demolition waste from across North London into high grade recycled material.**

The J-1175 works with an existing Terex Finlay 663 screen at Flannery's Wembley site to convert construction and demolition waste into five sizes of material - used predominantly as pipe fill for the utilities sector. It features a Jaques crusher and a heavy-duty undercarriage for on site mobility.

It also includes a heavy-duty vibrating grizzly feeder with automatic control to regulate the feed into the crusher, a hydrostatic drive and reverse crushing action to assist in clearing blockages.

Leon Sheehy, managing director of Finlay Plant SE, says: "The Terex Finlay J-1175 Jaw Crusher works with the existing Terex Finlay 663 on site to deliver a clean, valuable product at a high tonnage level."

Flannery Plant Hire (Oval) Limited was founded over 35 years ago by Patrick Flannery. Since 1972, it has progressed to become a leading provider of London plant hire equipment,



machine operatives, labour and support to the major construction, utility and associated service industries.

The company's headquarters are adjacent to the new Wembley football stadium. It currently recycles more than 90% of the construction and demolition material processed at the site.

Martin Flannery, a director of Flannery Plant Hire (Oval) says: "We wanted a machine that could cope with demanding conditions and operate with the minimum of downtime. The plant is supported by good service and back up support from Finlay Plant SE."



[www.hub-4.com/directory/1824](http://www.hub-4.com/directory/1824)

## JCB unveils first ever dedicated material handler

**AT RWM 2010, JCB previewed a brand new dedicated material handler for the waste and recycling industry. The 20-tonne JS20MH will target public and private waste management companies handling municipal solid waste (MSW) in civic amenity sites, transfer stations, materials recycling facilities (MRFs) and also specialist material recycling companies.**

Set to join JCB's established JS200W Wastemaster - a conventional wheeled excavator adapted for the needs of scrap and waste handling industries - the JS20MH will capitalise on the company's expertise in the production of high performance, reliable and durable wheeled excavators and shares the engine and hydraulics with the proven JS175W model. However, the undercarriage is a completely new design and features a centralised slew turret for increased all-round stability and uniform lift performance throughout the 360 degree rotation.

This result is consistent operation and true material handler characteristics, aided further by a slew gear box, which delivers increased slew accuracy while loading. Purpose-built for the waste and recycling environment, the machine will be available with fixed or hydraulically raised cab for loading containers, giving improved vision and safety on site.

Powered by a 92 kW engine and fitted with a 5.7 m straight boom, the JS20MH will be tailor-made for excellent material handling performance. The options are a 4.0 metre gooseneck dipper for scrap applications or a shorter 3.0 m straight dipper for waste applications - each creating a smaller rig than the JS200W Wastemaster. The maximum achievable pin reach is approximately 9.5 m.



[www.hub-4.com/directory/7003](http://www.hub-4.com/directory/7003)





**Molson Group have now acquired a franchise for Keestrack.**

Keestrack are well known throughout Europe for their screening machines, and following Keestrack's recent acquisition of OM Track (who Molson already had an affiliation with) they now

make Jaw & Impact Crushers. Molson can now offer a complete line up for Crushing & Screening operations. DLD Plant Hire from Gloucestershire have purchased a Keestrack Combo from Molson Group, Dave Dennis of DLD believed the machine's compact design enabled him to transport the machine on a traditional 3 axle

step frame trailer which is a huge benefit compared to some of Keestrack competitors machines. Also, key features which included a Steel Apron feeder, Closed Centre Hydraulic pumps which result in better fuel efficiently, full remote control for feeder and tracks & robust design all of which helped confirm this was the right machine for the job.

**Molson Group** are long established within the construction industry. Molson started in 1995 as used equipment dealers located in Bristol supplying used construction equipment to the local domestic market. Molson then went on to be a market leader importing quality used construction equipment from Japan. Molson built its reputation on supplying good, low hour machines which gave good value for money to the end user. From this reputation, Molson took on their first new dealership – for new Kobelco machines. Molson had a successful time with Kobelco which went on to the height of today. Molson currently represents franchises for Hyundai Heavy Industries, OM Keestrack, Kubota, Kato, Ausa, Ammann, NPK & Kaeser.



Molson Group, Smoke Lane Industrial Estate, Avonmouth, Bristol BS11 0YA  
TEL: +44 (0)1179 820 123 | FAX: +44 (0)8450 179 516 | [info@molsongroup.co.uk](mailto:info@molsongroup.co.uk)

[www.molsongroup.co.uk](http://www.molsongroup.co.uk)

# Equipment for the Recycling Industry

## Ruttle Plant continues to offer a superior service.

Founded in 1958, Ruttle Plant Ltd specialise in the short term rental, contract rental and sale of mobile plant and equipment within the construction, waste recycling and aggregate industry. Ruttle Plant provides tailored solutions to suit your specific needs and requirements.

Some of our current clients include Waste Recycling Group, Viridor Waste Management, Mersey Waste, Greater Manchester Waste and Veolia Environmental Services. We can supply the machines with complete maintenance support including all tyre maintenance.

With our depots ideally located and our highly skilled and experienced personnel, we feel we can offer you an excellent service with a complete supply and maintenance package at a more than competitive price.

Lancaster House,  
Ackhurst Road,  
Chorley,  
Lancashire UK

Tel: +44 (0) 1257 266511  
Fax: +44 (0) 1257 260625  
E: [sales@ruttleplant.co.uk](mailto:sales@ruttleplant.co.uk)  
[www.ruttle.co.uk](http://www.ruttle.co.uk)

Also depots in Chesterfield, Derbyshire - Lichfield in Staffordshire







## Oscillation advancement delivers 2.8 acres of dust suppression

**Dust suppression technology that can blanket more than 125,000 square feet (more than 2-1/2 football fields) with a powerful dust-trapping mist from a single machine has been announced. By designing a 359° oscillation option for all three of its popular ducted fan models, Dust Control Technology believes it can deliver the widest coverage of any comparably-sized dust suppression equipment.**

*"With nearly double the coverage, users can manage dust on a given job with a reduced number of machines," observed DCT president Edwin Peterson. "Crews can maintain better focus on core activities, without having to relocate the units as often to manage adjacent areas."*

The expanded oscillation option will be available on all three of the DustBoss fan-driven designs: the DB-60, DB-45 and DB-30. Specifiers will be able to order the machines with four pre-set oscillation arcs of their choosing, allowing users to select the most appropriate coverage for each job site and weather conditions.

To incorporate the expanded oscillation option, engineers capitalised on the same advancements that produced 180° coverage a year ago. They shifted the water inlet to a center feed to accommodate the increased range of motion, and incorporated a larger oscillation motor to handle the additional work.

The DB-60 employs a series of 30 specially-designed brass nozzles to atomise water into droplets 50-200 microns in size, the optimum for effective dust particle attraction. Launched by a powerful 18.6 kW motor that generates nearly 850 m<sup>3</sup>/min, the atomised spray has a throw of more than 60 m to produce the coverage area of more than 2.8 acres.

The oscillating DB-45 can deliver a virtual dust barrier that covers more than 6,500 m<sup>2</sup>, with a throw of nearly half a football field. With its 11.2 kW fan, the DB-45 generates 510 m<sup>3</sup> of airflow to maximise coverage and particle capture. Like the more powerful DB-60, the design also features adjustable elevation from 0-50°. An optional 7.5 kW booster pump elevates water pressure in the DB-45 as high as 200 psi for good particle suppression.

The DB-30 has long been known for performance that belies its smaller size, capturing dust particles more effectively than many larger machines. Mounted on a movable carriage, the versatile unit has a 5.6 kW motor that generates 260 m<sup>3</sup>. When equipped with the new 359° oscillation option, the DB-30 can cover more than 2,787 m<sup>2</sup>.

All of the fan-driven DustBoss models are available with the company's Variable Particle Sizing technology, providing customers with a wide selection of different nozzles for suppressing a broad range of particle sizes. VPS can be used to control dust outside the typical 50 - 200 micron range, such as odour-causing vapours or very fine solids. Any of the DustBoss designs can be ordered with a dosing pump to add surfactants for superior particle attraction or additives for odour control, and can be equipped with a supplemental filter system permitting the use of non-potable water sources.



## Focus on recycling

**Waste management and investing in recycling remains high on the political agenda and there is a growing demand for recycling plants and a need for the development of new improved recycling equipment.**

To meet and appreciate the specific needs of the recycling industry Carlton Hicks, who has been employed by Eriez for five years, has been specifically charged with the development and sales of equipment for the recycling industry. Carlton has already been involved in managing major recycling projects and has gained a great deal of experience within the industry. His main objective will be to visit working recycling plants to ensure they are achieving the best possible separation and using the best equipment for their metal sorting needs.

Paul Fears, managing director of Eriez Europe said: *"The needs of our customers can be complex at times and we felt by dedicating one employee full time to the recycling business we will better understand and support those customers. Carlton is the ideal person having already worked on many recycling projects where we have installed Eddy Current Separators, Metal Separation Modules and other such equipment."*

Eriez launched new recycling equipment at the RWM, including a new super strength Permanent Magnetic Scrap Drum (the P-Rex).



[www.hub-4.com/directory/280](http://www.hub-4.com/directory/280)



Carlton Hicks



## Radicon Service & Repair

Your online tracking service is only a click away.



[www.davidbrown.com](http://www.davidbrown.com)

Tracking the progress of your repairs is now a reality thanks to the new and unique online service from David Brown Radicon. Simply log into the secure area on the website and you'll be provided with real time progress of your repair. As the only authorised repairer of David Brown gear units, David Brown Radicon Service & Repair deliver the fastest and most efficient repair and support services in the industry.

For further information call 01484 465752,  
email [radicon@davidbrown.com](mailto:radicon@davidbrown.com)  
or visit [www.davidbrown.com/radicon-service](http://www.davidbrown.com/radicon-service)

**Radicon** | Service Centre Online





## First Liebherr industrial rehandler for A. Brotherton

**A. Brotherton is a family owned breaking and dismantling specialist based in Otley, West Yorkshire where they process and bale end-of-life vehicles, ferrous and non-ferrous scrap metals. Founder and owner Arthur Brotherton has invested in a high technology, high specification A 924 C Litronic. The company has been in existence for over 36 years and their first Liebherr rehandler is the lynchpin of the materials handling activities at the site, including loading and unloading vehicles, stockpiling and feeding the baling press. Both Arthur and his son Craig operate the machine and are delighted with the performance and reliability, having been further convinced of its suitability when they were researching the market for a new machine.**

A. Brotherton collects and receives end-of-life vehicles and commingled scrap metals throughout their catchment area of West and North Yorkshire. The company runs its own fleet of skip and flat-bed trucks for collections and processes around 4,500 tonnes a year. The end product is baled by a 450 tonnes Lefort baling press and sold on to national and international merchants.

The A 924 C Litronic materials handler purchased by Arthur Brotherton has been supplied to a high specification, with industrial long-reach equipment, an hydraulically elevating cab and numerous operational and safety features for this kind of specialist application.

A 28 tonnes class wheeled machine, the A 924 C Litronic is powered by a Liebherr engine complying with Stage IIIA / Tier 3 emissions and developing 135kW at 1800RPM. The heavy-duty axles feature front oscillation lock which can be either automatically or operator controlled and the eight wheels are fitted with twin Gumasol 10.00-20/SP20 (MH4) tyres. Travel speed is infinitely variable and four hydraulic outriggers, with piston rod guards, provide excellent stability for stationary operations. This versatile materials handler is equipped with a 6.8 metres monobloc straight industrial boom, a 6 m angled industrial stick and a hydraulic swivel for the various attachments in use, including a GM65 five-tine grapple. Maximum load capacity is 3.70 tonnes at 12 metres working radius using outriggers; 2.10 tonnes free-on-wheels. Central semi-automatic lubrication is included; additional front and rear headlights have also been fitted, together with an amber roof beacon and halogen working lights on both the boom and stick.

For load visibility, the ergonomically designed operator's cab can be hydraulically elevated to give a line of sight raised to approximately 5.27 m; it also has a FOPS guard for the roof and a grille for the front windscreen. The Litronic engine and hydraulics management system provides complete real-time operational data. Air-conditioning is standard as is armoured glass and the fully adjustable seat is heated, equipped with headrest and an automatic ventral safety belt. The steering wheel is adjustable and the twin joysticks are integrated into the seat armrests, providing positive and accurate control of slew and attachments. Additionally, this machine has been equipped with a rear-view CCTV camera and in-cab colour screen which provides maximum rear space monitoring at all times.

## A Touch of Glass

**A new glass reprocessing plant has been set up in a quarry site near Doncaster, using machinery supplied by Finlay Hire. Bank End Quarry, a 135 acre site in Blaxton, South Yorkshire, has been operating for 35 years. Moss Construction Aggregates and Recycling have been running the site - which is still producing high quality red building sand - for five years, but the reprocessing plant adds a new string to the company's bow.**

Waste glass is ground to -50 mm in a Tesab RK623 impact crusher before entering a Terex Finlay 390 feeder to a Terex Finlay MP300 16 x 6 foot, triple-deck, horizontal washing screen.

Any lightweight material, such as paper or plastic, is floated off through a Mogensen Trash Screen, while the -6 mm glass fines enter a Terex Finlay TC15 Sandmaster.

Twin cyclones on the Sandmaster separate the washing water from the clean glass fines, which are stockpiled before being sold for use in concrete block and pipe construction.

Ean Noble, director of Moss Construction and Aggregates Recycling, said: "It's all about thinking outside the box - we needed to diversify, but we couldn't have made the huge initial outlay that would have been necessary to purchase all this machinery outright.



*"Finlay Hire gave us the opportunity to set up the system, which can process between 80-100 tonnes of waste per hour. Of the material processed as much as 90% will be reused, which is a significant reduction in waste going to landfill."*

The versatility of the plant at Bank End Quarry means that it is not limited to processing glass.

Construction and demolition waste can also be put through the system, which is fitted with a magnetic belt to remove ferrous metal prior to feeding into the MP300.

*"The -6 mm sand fraction is fed into the Sandmaster to produce washed recycled sand for utility fill."*

*"The +6 mm is further processed through a Finlay 206 Logwasher for further removal of clay and rinsing, before grading in a Finlay 683 Supertrak into 40 x 20 mm, 20 x 10 mm and -10 mm clean secondary aggregate."*



[www.hub-4.com/directory/1824](http://www.hub-4.com/directory/1824)



[www.hub-4.com/directory/504](http://www.hub-4.com/directory/504)



## Case debuts materials handling duo at RWM



**Case Construction Equipment showed its CX210B-SL Scrap Loader and the larger CX240B-MH Materials Handler at RWM Visitors were able to examine the two machines equipped with a five-tine Kinshofer grab and a Kinshofer selector grab respectively.**

Based on CX210B and CX240B crawler excavator components, the two machines are designed to work with a range of grapples and other materials handling attachments. The CX240B-MH comes with a 7.1m main boom and a 5 m dipper arm, to provide superior reach and lifting

capability. A choice of alternative sticks is available, along with a heavier 6.9 tonne counterweight that ensures total stability, even at full reach, providing confidence for the operator and increased operational performance.

The CX210B-SL scrap loader uses a 6.8 m main boom, with a 5.2m goose neck dipper, for mass movement of industrial waste. The proven elevating cab structure of the Case CX-B models offers up to 2.3 m of lift, its rigid structure inspiring total operator confidence, providing stability and improved visibility to the working area.

Rapid boom raise and twin arm cylinders, combined with fast upper structure slew functions contribute to short cycle times. Twin dipper arm rams are mounted outside the boom to allow an increase in operating angle for a larger working envelope. This also provides a very low boom height for ease of transportation.

The machines benefit from the Case CX-B cab's standard class-leading levels of low noise and vibration. Thanks to slim pillars, the cab offers a superb view to the working area,

improving safety and productivity on site. A reclining operator's seat is standard, along with air conditioning with nine outlet louvers, providing heating and ventilation in all weather conditions. Cup holders, a mobile phone holder and a built-in coolbox contribute to a wealth of internal storage compartments, providing the operator with a class-leading working environment.

Both the CX210B and the CX240B models are powered by a proven low emission Isuzu diesel engine.

The machines feature the Case Intelligent Computer Command Control System (ICCCS), providing the operator with complete control of engine output and hydraulic performance. The CX210B-SL provides the ideal machine for truck loading and yard work, while the larger CX240B-MH is the perfect model for scrap handling and vessel loading. Together the two CX-B models form a core component in the Case materials and scrap handling line-up.





**FREE KM 70/20 C  
Sweeper\***

**KÄRCHER**  
makes a difference

**Worth  
£399.00  
ex VAT**

**Buy a Kärcher Scrubber Drier\* and get a  
Kärcher KM 70/20 C Sweeper absolutely FREE\*\***



To find out how Kärcher can make a difference to you call 01295 752 142, email: [sweeper@karcher.co.uk](mailto:sweeper@karcher.co.uk) quoting Hub4Dec or visit [www.karcher.co.uk](http://www.karcher.co.uk)  
Offer valid from October '11 - December 31st 2012, \*excluding SK 3014 C \*\*Please ask for a claim form at time of purchase



**SPECIALIST PRODUCER OF MEDIUM AND LARGE  
DIAMETER COMPRESSION, EXPANSION  
AND TORSION SPRINGS.**



Pottery Lane East, Chesterfield, Derbyshire S41 9BH  
Tel: +44 (0)1246 451981 Fax: +44 (0)1246 454327  
E-mail: [sales@valleyspring.com](mailto:sales@valleyspring.com) www: <http://www.valleyspring.com>

**NORD-LOCK**  
*Bolt securing system*

- Prevents loosening caused by vibration and dynamic loads
- Locking function is not affected by lubrication
- No special tools required
- Reusable



NORD-LOCK Ltd • Tel +44 (0)1980 847129 • Fax +44 (0)1980 847674  
[enquiries@nord-lock.co.uk](mailto:enquiries@nord-lock.co.uk) • [www.nord-lock.co.uk](http://www.nord-lock.co.uk)



# Washing crusher dust stockpiles at Gleeson Quarries

**CDE Global hosted visitors from throughout Great Britain at an open day in County Tipperary to witness first hand the M2500 mobile washing plant in operation.**

The event was hosted at Gleeson Quarries near Laffansbridge, County Tipperary where a CDE washing plant is processing waste material from the dry crushing and screening process to produce washed sand and aggregates. "The material we are washing at Gleeson Quarries was previously being stockpiled as a waste material as a result of the inherent levels of silts and clays," explains Eunan Kelly, CDE Sales Manager for Ireland. "The washing plant we have installed is ensuring that this waste material is being effectively processed to create commercial grade sand and aggregates."

The Gleeson family has been involved in the construction materials market for almost 50 years. Sister companies, Gleeson Concrete based in Tipperary town, produces readymix concrete, concrete blocks, sand and gravel, while Gleeson Precast based in Golden produces precast concrete floors. The second generation of the Gleeson family currently manages these operations.

Gleeson produces a variety of aggregates for the construction sector. Concrete blocks have been manufactured on site since 2001 and readymix concrete has been produced on site since 1990. Gleeson is one of the leading suppliers of Clause 804 and Clause 810 road materials to the local authorities for the many road building and improvement schemes that have taken place in the local area in recent years.

The washing plant includes the M2500 mobile washing plant, Aggmax attrition system and Aquacycle thickener to ensure more than 80% of the water used in the washing process is recycled, thus minimising the amount of space required on site to accommodate settling ponds.

The M2500 had its official launch at the Bauma 2010 exhibition in Munich earlier this year and integrates a feed system with a Prograde P2-75 double deck rinsing screen and Evowash 71 sand washing plant. The M2500 has a total capacity of 250 tph and will produce 70 tph of a single washed sand to the required specification. In this instance Gleeson Quarries required a concrete sand for use in their on site concrete batching plant. There are a number of other models available within the M2500 range allowing up to 120 tph of single or dual sand production if required.

"At a time when operators are focused more than ever on maximising efficiencies within their sand and aggregate processing operations, our plant at Gleeson Quarries provides evidence that there are significant opportunities to be taken advantage of with the processing of waste stockpiles," explains Terry Ashby, CDE general manager in Great Britain. "We have numerous plants in operation throughout the world doing this very same job and it is always the case that considerable volumes of quality sand and aggregates can be recovered when the right system is employed."

The washing plant at Gleeson Quarries has been in operation for 5 months and has processed approximately 100,000 tons of material that was previously a waste product. This material was taking up valuable space on site at Gleeson Quarries before installation of the washing plant from CDE Global. In addition, the customer was missing out on a significant revenue opportunity that could be realised through the introduction of an effective washing plant. The CDE sand and aggregate washing plant at Gleeson Quarries has addressed both of these issues and resulted in the customer being able to maximise returns from their extraction processes.

## Case study

Gleeson Quarries was established in 1987 to serve the growing market for quality construction materials in Tipperary and surrounding areas. Its location at Laffansbridge, near Killenalea, allows for convenient access to the nearby major urban areas. The company supplies a full range of readymix concrete, concrete blocks, crushed limestone, granular fill, agricultural lime and washed sand

and gravel. Their main markets are within a 25 mile radius of their Laffansbridge quarry.



Laffansbridge Quarry has a long history and was first worked by the Great Southern & Western Railway in the 19th century. South Tipperary County Council extracted road materials up to the 1950s when the quarry was closed until the early 1980s when it was reopened by the current owners.

The Gleeson family has been involved in the construction materials market for almost 50 years. Sister companies, Gleeson Concrete, based in Tipperary town, produces readymix concrete, concrete blocks, sand and gravel, while Gleeson Precast based in Golden produces precast concrete floors. The second generation of the Gleeson family currently manages these operations.

On site, material is first delivered to the feed hopper, which removes the +100mm material. The integrated feed conveyor then delivers material to the Prograde double deck screen via a 14 m conveyor with a 1000 mm belt. The belt width of the feed conveyor is the same width as on the belt feeder that is integrated within the feed hopper. This ensures efficient transfer of material between the hopper and conveyor, removing any choke points for sticky material. In addition to this the M2500 is fitted with polyurethane wear pads at all points where material is transferred from one stage of processing to another. This automatically reduces instances of material impacting onto steel, which reduces wear and has a direct positive impact on plant efficiency while reducing ongoing maintenance costs.

From the feed conveyor material is then discharged to the Prograde P2-75 double deck rinsing screen. Prior to this a wash box fitted to the head of the feed conveyor ensures sufficient water is added to allow effective screening. The top deck removes the +50 mm material, which is stockpiled using one of the 9 m wing conveyors. These wing conveyors discharge at 4.7 m offering a stockpile capacity of 150 m<sup>3</sup>. The bottom deck of the Prograde rinsing screen removes the 5 mm to 50 mm material while the minus 5 mm material is pumped to the integrated Evowash sand washing plant where the concrete sand is produced.

Due to the levels of silts and clays in the feed material the aggregates require additional attrition in order to ensure the final products are as clean as possible, thus ensuring they command the highest commercial value. This is achieved through the introduction of the Aggmax 150 system. The Aggmax integrates the Rotomax RX150 log washer with a proven capacity of 150 tph and an Evoscreen dewatering screen on a single easily transportable chassis. The 5 mm to 50 mm material from the bottom deck of the Prograde screen is fed to the Aggmax via the 9m wing conveyor integrated onto the M2500 washing plant.



There are many features of the integrated Rotomax log washer that make it stand out from other systems on the market but the one that really seemed to capture the attention of all at the recent open day was the specification of the blades within the log washer. These are manufactured from chrome molybdenum, which is the same material as is used on impactor crushers giving some indication of its durability and performance. "The use of chrome molybdenum blades within our Rotomax log washer ensures a level of performance not available in other log washers on the market" explains Eunan Kelly. "The majority of other systems use a substantially lower grade of steel for their logwasher blades in an attempt to reduce costs but this has been proven as a false economy."

Eunan goes on to explain that due to the specification of lower grade steel in the logwasher blades they wear much quicker thus requiring replacement a lot more often than on the CDE machine. This not only increases ongoing plant maintenance costs but also has a detrimental effect on plant efficiency.

As other blades wear, their ability to effectively clean the aggregates is reduced which means variations in product quality is inevitable. The effect of this is to reduce the value of the final products. The efficiency of other log washers when compared to the Rotomax is further compromised by the fact that increased maintenance requires extended periods of plant downtime which limits the volumes of material that operators are able to produce.

As well as the specification of chrome molybdenum blades the design of the scrubbing process within the Rotomax logwasher also has a significant impact on the ability of the machine to effectively clean the aggregates that pass through it. On the CDE Rotomax system the blades are mounted on the dual shafts in a fan arrangement ensuring maximum attrition for the material. This performance is further enhanced through the dove tailing of the blades on each of the two shafts. The overlapping of the logwasher blades as they rotate ensures that material within the Rotomax is subjected to the highest level of attrition possible.

Once the aggregates have passed through the Rotomax they are then discharged onto the Evoscreen dewatering screen that is integrated onto the single Aggmax chassis. The dewatering screen is fitted with spray bars to give the aggregates a final rinse. Meanwhile any minus 5mm material that has been liberated from the aggregates during the scrubbing within the Rotomax is pumped with the waste water to the Evowash sand washing plant ensuring maximum recovery of all commercial grade sand material. The 5 mm to 50 mm aggregates are then delivered to a 4 way split which classifies material into the desired grades, in this instance a 40-50mm, 20-40 mm, 14-20 mm and 5-14 mm.

The washing plant at Gleeson Quarries also includes an Aquacycle thickener system to enable recycling of more than 80% of the water used in the washing plant. The model employed in this instance is an A200 with a tank diameter of 6 m and a capacity of 200 m<sup>3</sup> per hour. This is supplied complete with a FlocStation P25 polyelectrolyte dosing plant and an AquaStore water recycling and pumping system.

Waste water from the Evowash sand washing plant is sent to the Aquacycle thickener via a gravity feed. The waste water containing all of the minus 63 micron material enters the deaeration chamber on the thickener tank where the polyelectrolyte is added before the material is piped to the centre of the tank. This slows down the flow of material into the tank, which ensures effective settling within the tank by allowing the polyelectrolyte to disperse efficiently.



A set of rakes at the bottom of the tank ensure that the settled sludge is maintained at an even consistency while the clean water overflows the weir at the top of the tank and is sent to the Aquastore W372 pumping system for recirculation around the washing plant. An automatic sludge pumping mechanism is then employed to pump the sludge from the Aquacycle thickener to the on site settling ponds.

The washing plant at Gleeson Quarries has been in operation for 5 months and has processed approximately 100,000 tons of material that was previously a waste product. This material was taking up valuable space on site at Gleeson Quarries before installation of the washing plant from CDE Global. In addition, the customer was missing out on a significant revenue opportunity that could be realised through the introduction of an effective washing plant. The CDE sand and aggregate washing plant at Gleeson Quarries has addressed both of these issues and resulted in the customer being able to maximise returns from their extraction processes.

"At a time when operators are focused more than ever on maximising efficiencies within their sand and aggregate processing operations, our plant at Gleeson Quarries provides evidence that there are significant opportunities to be taken advantage of with the processing of waste stockpiles," explains Terry Ashby, CDE General Manager in Great Britain. "We have numerous plants in operation throughout the world doing this very same job and it is always the case that considerable volumes of quality sand and aggregates can be recovered when the right system is employed."





# OUR PRODUCTS CREATE SOLUTIONS

When it comes to Engineered Solutions Linatex are able to offer each piece of processing equipment as part of their standard range. This means single source consistency and compatibility, and equipment that works together to ensure maximum efficiency.

The Linatex team are here to assist you every step of the way. By working together, we can create and implement your optimal solution, no matter how complex your project. Call us now on +44 (0)1252 743000 or visit [www.linatex.com](http://www.linatex.com)

**LINEATEX**  
OUR STRENGTH. YOUR ENDURANCE.



## RAYMOND BROWN MINERALS & RECYCLING LTD



**WASHING**



**RECYCLING**

**QUARRYING**

**AGGREGATE SUPPLIES**

**LANDFILL**

**INCINERATOR BOTTOM ASH**

**HAULAGE**

Tippers • Ro-Ro's  
Skips • Grabs • Lowloader



**DEPOT'S IN**

DORSET • HAMPSHIRE  
BERKSHIRE • WILTSHIRE

**For more information contact:**

Raymond Brown Minerals & Recycling Ltd,  
Lee Lane, Nursling, Southampton, SO16 0AD

**Tel: 02380 732121** Fax: 02380 740619

E-mail: [sales@raymondbrowngroup.co.uk](mailto:sales@raymondbrowngroup.co.uk)

**[www.raymondbrowngroup.co.uk](http://www.raymondbrowngroup.co.uk)**

## **S.E. Davis & Son Ltd.** **Mobile Washing Systems**

"A tailored package to meet your specific needs"

Including:

- MOBILE DEWATERING SCREENS & CYCLONES
- MOBILE WATER RECYCLING PLANT
- MOBILE CENTRIFUGES FOR SLUDGE REMOVAL

Total water recirculation = Lower water use

Does not require settlement lagoons

**CRUSHERS AND DRY SCREENERS ALSO AVAILABLE**

**SEE THE VIDEO OF THE PLANT WORKING  
ON OUR WEBSITE**



**SELF DRIVE & OPERATED PLANT HIRE AVAILABLE**

**☎ (01527) 89 3343**

**🌐 [www.sedavis.co.uk](http://www.sedavis.co.uk)**



## Bearings on new road-going trommel simplify on-site maintenance



**Stelex Construction Equipment, manufacturer of the Hercules range of trommels, has standardised on Baldor-Dodge Imperial ISN mounted spherical roller bearings for its new HT182M road-going trommel. In fact, Stelex sold two machines during the course of Hillhead 2010, to customers from Australia and the USA.**

One of the major features of the new stone cleaning and sizing machine is deployment flexibility, thanks to the design's incorporation of a low loader trailer. In addition, one of Stelex's key design parameters for the new trommel was ease of on-site maintenance. The company therefore chose to standardise on Dodge Imperial ISN bearings for all of the machine's main rotational load-bearing parts. These bearings use a patented thin wall push-pull adapter system which can be either metric or imperial sizes and achieves clearance setting without the use of feeler gauges; the bearing can be installed or uninstalled simply by turning a locknut clockwise or anticlockwise.

According to Stelex's managing director, Richard Evans, "Every Dodge Imperial ISN bearing does what it says on the box - it can be installed and uninstalled in less than 15 minutes. What's more, the bearings can be fitted without specialist tools and are supplied pre-lubricated and fully sealed, making them perfect for on-site maintenance purposes. Not that they need replacing very often - we are getting in excess of 10,000 hours service, which is a very good figure, especially given the aggressive operating environment. We currently use 90 mm Dodge Imperial ISN bearings - there are eight of these on the HT182M, which are contained in ISN pillow blocks - but we are also looking at using the 140 mm models on larger trommels in development."

The HT182M road-going trommel is suitable for cleaning and sizing quarried stone, regardless of location. The machine's integrated low loader trailer enables it to be driven to the exact point of need on site. It is capable of handling blasted, ripped or as-dug material, and can process up to 500 tph. Typical applications include quarry overburden cleanup and the removal of fines prior to crushing.

The trommel's main components are a 42-tonne capacity feed hopper equipped with a variable speed reciprocating tray feeder, and a 1.8 m diameter x 9.8 m long screening barrel. The barrel sits on hydraulically-driven support rollers - the main drive pump can be powered by an electric motor or a diesel engine - and its rotational speed can be varied to accommodate different material flow rates. The complete machine sits on support legs or an under-frame, and the desired grade of material is obtained via an extraction hopper placed beneath the appropriate section of the screening barrel.



[www.hub-4.com/directory/11736](http://www.hub-4.com/directory/11736)



## Chile order confirmed

**Sam Pask, commercial director, Mogensen Raw Materials Handling reports that over the past three or four months the intake of purposeful enquiries from the mining, quarrying and recycling sectors has been very encouraging. A significant order from the quarrying/open-cast mining sector in Chile was confirmed during the Hillhead exhibition..**

The order was placed by Janssen SA, Project Engineers, of Santiago for Atacama Minerals. The equipment is to be installed at the Aguas Blancas mine in Northern Chile and comprises a 3 m wide five deck Mogensen Sizer, a matching 3 m vibratory spreader feeder, the support structure, control gear and spares. The equipment, which will be working together with a Barmac crusher, will be handling 356 tph of caliche making separations at 28 mm and 2.5 mm. The Sizer will remove 30 tph of coarse stone and 120 tph of fines below 2.5 mm (the product required for further processing) from the material received from the Barmac. The system as a whole will receive 150 tph of fresh feed, the circulating load being 206 tph. Chilean caliche contains stone, sand, gypsum, the chloride, nitrate, sulphate and borate salts of sodium together with potassium nitrate and high-value iodine-containing minerals, the latter providing the current economic motive for working the deposits.



The Mogensen machines will each be powered by two counter-rotating Invicta rotary electric vibrators, 6200 watt Type BLz 60-105/6 in the case of the Sizer and 1800 watt Type BLz 40-27/6 for the feeder.

## Mogensen introduces new website

Mogensen recently published its new website, which provides a detailed overview of the Mogensen range of vibratory raw materials handling equipment and the industries served by the company.



[www.hub-4.com/directory/12252](http://www.hub-4.com/directory/12252)



# Gallagher celebrates 20 years at Hermitage

**Hub attended the celebrations at Gallagher's Hermitage Quarry where it is successfully extracting Kentish Ragstone.**

Gallagher celebrated 20 years of quarrying Kentish Ragstone at its Hermitage Quarry near Maidstone, by inviting customers, suppliers, employees, family and friends to an open day.

Pat Gallagher's dream of owning a farm came true in 1987 with the purchase of Hermitage Farm. As the farm sat on Ragstone reserves Pat tried his luck at "rooting out" the Ragstone as an add-on to his contracting business. In 1989 he was granted planning permission to quarry 53 acres and that started investment in creating one of the most modern and efficient quarrying operations in the country.

Over the last 20 years 74 acres have been quarried and some 40 acres have been reinstated to productive agricultural land and woodland. The new pasture / arable land is better quality than the original. In addition, over a quarter of a million native trees and shrubs have been planted as hedges, copse and woodland providing a vastly increased and connected wildlife habitat, much of which is open to the public.

Today, Hermitage Quarry produces some 700,000 tonnes per year of sub-base material, capping layers, rock armour, walling, gabion stone and premium grade single sized washed aggregates and sands. The quarry operation also produces dressed stone for building work and restoration projects. Significant quantities of re-cycled demolition material are processed and the business provides a considerable quantity of ready-mixed concrete to the local market.

Helping out in the process is a fleet of Bell equipment. It includes two Bell B50D ADTs, which will be 4 years old in March 2011 and operate 100% of the time in the Hermitage quarry. These are the only 50 tonne ADTs working in the south east of England. Gallagher also has 4 x B30D machines, which are currently working within the company's contracting division, and two B40Ds, which predominately work in the quarries.





Kent Ragstone is a limestone formed in hard bands between weaker hassock material. Far from being an inferior product as its name might suggest, 'Kentish Ragstone' is extremely durable limestone material. It's named after the way it breaks; never smooth like a Portland stone or a slate, it always has a ragged edge to it. The trick is separating the soft hassock from the good quality limestone.

Up to 70% of the quarried material in Hermitage's beds was once wasted. This has now reduced this figure to below 10%. Sending just 10% of material from the site to landfill is unique in a quarry dealing with this kind of material.

The extracted mineral is fully processed into over 60 different products including a full range of construction and recycled materials and supplied to customers throughout the south east. The premium quality Ragstone aggregate is used in Gallagher's own BSI accredited ready mixed concrete operation also based at Hermitage Farm.

The process starts with a drill machine at the top of the quarry face, which drills down so a section can then be blasted away from the face to free fall and break. 70% is good stone and 30% is hassock, which can be either sandy or lumped - the latter can be used in applications such as road and drainage applications.

Bell's vehicles take all the as dug material to a hopper, where it is loaded for entry into a large, heavy duty trommel screen to remove the -75 mm material containing Hassock.

The remainder is screened and sent though to the crushing process to produce a variety of material. Washing plant washes dirtier material; a rinsing plant takes semi-clean material.

The quarry can also wash gravel material deposits brought in from a nearby site. Instead of it going to tip it's stored until Gallagher has time to wash it and produce gravels from it instead of going to landfill.

Underground pipes take dirty / silty water from the washing plants to silos where it's mixed with flocculants, which separates heavy material from the water, which then goes back to the system, so its constantly recycled. Silt is pumped through presses to squeeze out the water, which is also returned. The residual semi-dry silt is a waste material.

About 50% or more of the quarry's throughput is now recycled aggregates. Hermitage quarry also takes in crushed concrete and tarmac and reprocess it and sell it as recycled material and will start to take in utility waste - arisings out of highway works - and reprocess it so very little goes to landfill.

*"We are doing a lot of recycled aggregates," Tom Corkery, finance director at Gallagher, told Hub at the open day. "We would do more if we could get more material as it comes of sites - there's only so much concrete and hardcore that comes in. The more we get the better."*

Summing up business in general, Tom said: *"Business is good - particularly on the contract side. We are concerned about the outlook going forward. There have been cut backs in government expenditure but we've had a recession busting year. We are a family business in at the grass roots operating in local Kent and Sussex areas - that's been our strength."*



[www.hub-4.com/directory/4369](http://www.hub-4.com/directory/4369)





# More effective than standard harp and piano wire Screen cloth

**LFM Harp Wire from Major Wire Industries helps aggregate operations increase throughput over standard harp or piano wire while reducing downtime caused by worn wire cloth. Standard harp or piano wire screens use hard metal or plastic slides to hold the wires in place at the crown bar.**

The wires vibrate against the slides, which in turn vibrate against the crown, causing breakage. LFM Harp Wire is manufactured with straight wires firmly moulded into polyurethane strips that hold the wires in place at the crown bar. With its wires embedded into flexible polyurethane strips instead of rigid slides, steel-on-steel wear is eliminated. The polyurethane strips at the crown bars keep the wires equally tensioned, creating better wire vibration when compared to traditional harp or woven wire cloth, reducing blinding and increasing production of a cleaner aggregate product. In addition, LFM Harp Wire's long slots (up to 12 in.) provide more open area to increase screen capacity.

The design of this wire allows it to handle high-impact loads better and last up to twice as long as conventional harp and piano wire. Additionally, LFM Harp Wire screen media is available in custom configurations to match unique screens and applications. Producers can choose from the commonly selected stainless steel wire or Major Wire's abrasion-resistant OptimumWire high carbon and high manganese content wire; number and placement of polyurethane strips; a range of wire diameters per opening sizes; optional polyurethane intermediate strips for better wire stability and spec material control; and an optional polyurethane side seal, which provides the tightest possible seal.



[www.hub-4.com/directory/755](http://www.hub-4.com/directory/755)

## Mobile success in Oman



**Powerscreen is reporting success in Oman, according to Imran Kazi, manager- products, General Engineering Services Est, Oman.** He said: *"The Oman market is dominated by wheel and track mobile plants, within which the ratio is greatly in favour of track mounted units. Customers prefer compact equipment that they can move from site to site at a rapid pace with minimal logistical hassles, given the large number of jobs. Customers are finding tracked crushers and screens the right fit for their projects, enhanced by the fact that Powerscreen plants have a lower initial cost, operating cost and maintenance cost."*

Prior to Powerscreen entering the Oman market, there were a small number of mobile crushing and screening plants operating for road building companies. The market was dominated by static equipment, but there has been an increased acceptance of mobile crushing and screening equipment by quarry operators in Oman.

Mining project developers and mine owners want to remain focused on their core business. Rapidly rising costs of quarry operations encourages them to outsource the quarry operation to contractors who own crushing units. This has led to a change in market dynamics and the expansion of the mobile crushing and screening market.

General Engineering Services Est, the Powerscreen Dealer in Oman, entered the market with mobile crushing and screening plants and soon found its sales figures going up. The dealership sold more than 45 crushers and screens in four years.

Sami Saeed Al Bahr Al Rawas, quarry owner from Nasr Arabia, previously purchased static plants until being

introduced to the concept of mobile crushing and screening plants by the sales team at General Engineering Services Est.

Nasr Arabia now own four Powerscreen mobile crushers and screens, a Pegson 1412 Trakpactor, a Pegson XR400, a H6203R and a Warrior 1800.

Sami ordered a combination of a Pegson XR400 and a Warrior 1800 Screen for a construction and highway contract and uses the produced aggregate as road base material.

The Pegson 1412 Trakpactor and H6203R screen are working in combination producing 250 tph of crushed aggregate that it uses for ready mix concrete plant, asphalt plant and road based material. *"I think the mobile crushers and screens are amazing machines,"* says Sami Saeed. *"It is very important to have a low fuel consumption and high productivity level - and these mobile plants have both as compared to the static plants I owned previously."*

Nasr Arabia is sufficiently impressed with the crushers and screens that the company has placed an order for a Pegson XH500 and Chieftain 2100X. *"Being mobile, compact and remotely operated enables the tracked units to operate close to my quarry site, thereby reducing the use of large conveyors belts, in turn balancing the operating and maintenance costs,"* says Sami. *"Tracked equipment has other advantages as they can be commissioned and dismantled quickly, thereby reducing waste when compared with a static plant."*



[www.hub-4.com/directory/679](http://www.hub-4.com/directory/679)



# Larger shovels for Day Aggregates



*An L180F dispatches material from Day Group's aggregate reception facility at Purley*

**"They're a good tool for the job...." said Stuart Holmes, plant manager for Day Group as the company purchased two more Volvo L180F and one L120F for its aggregates and bagging facilities across London and the south east of England.**

The two larger loading shovels are replacing similar sized machines in the Day fleet that have clocked up around 13000 hours over the last five years and have been deployed on stockpiling, rehandling and loading road wagons at the company's Purley and Charlton aggregate reception facilities. The L120F is an addition to the fleet and goes to work at one of the company's bagging plants located within the south east of the country. "Once again we've opted for the Volvo brand as the machines have demonstrated that they are reliable and well on top of the demands we place on them," commented Stuart Holmes. "In addition, the CareTrack and Matris GPS monitoring systems allow remote interrogation of how the machines are being utilised by the operators on site. All this coupled to the fact that Volvo is head and shoulders above the competition when it comes to product support that's why we're staying with them," he continued.

The L180F and L120F loading shovels are powered by Tier III low emission 12 and 7 litre engines respectively with the larger model developing 320 hp and maximum torque at just 1400 r/min and the 7 litre engine developing 243 hp. Achieving maximum torque at relatively low rpm provides excellent rimpull, low fuel consumption and a significant reduction in noise levels. Engine power is converted into work via a smooth shifting electric - hydraulic HTE transmission. All the operator has to do is select forward or reverse since the Volvo Full Automatic Power Shift (FAPS) takes over and automatically selects which of the four forward or reverse speeds to engage. The system is independent of both machine and engine speed and software in the ECU adapts to the operators' style of driving, optimizing gear changing parameters and saving fuel by always selecting the right speed. The fact that all major components of the driveline (engine,



*An L180F dispatches material from Day Group's aggregate reception facility at Purley*

transmission, axles) are designed and built by Volvo means that they work in harmony in terms of performance, reliability and fuel efficiency.

All three loading shovels have been equipped with Groeneveld automatic greasing systems; RDS weigh loaders, boom suspension, mud flap extensions and additional work lights. The Care cab on the F series Volvo loaders is a big step forward in design, operator comfort and visibility according to Stuart Holmes. To further enhance operator comfort, all three machines have also been equipped with electric convex heated mirrors and Eberspacher cab heaters. The new arrivals bring the Volvo fleet of shovels up to a total of twelve in Day Group's plant fleet and have been supplied with the Volvo 'Silver' customer linked repair and maintenance support agreement.

Founded in the early fifties by the late John Day, Day Aggregates, a division of Day Group, supplies over three million tonnes of construction material per annum. With depots linked to Network Rail and a network of factory concept processing plants strategically placed around Greater London, Day Aggregates processes construction and demolition waste for re-use in a variety of construction applications and provides bulk aggregates for major construction projects.



[www.hub-4.com/directory/876](http://www.hub-4.com/directory/876)



# Lack of wear protection is costing UK Bulk Handling, Extraction, & Recycling industries £millions annually.

**Wear protection - the process of coating or lining process plant and equipment, such as cyclones, valves, bunkers, pipework, chutes (et al), with ceramics, metallics or polymers to extend their life, - is under-employed in the UK.** This is resulting in unnecessary maintenance costs and lost production time running into millions of pounds per annum for British bulk handling, extraction and recycling industries.

At the heart of this problem are the conflicting demands of reducing capital projects costs verses the needs and expectations of maintenance managers and engineers, who inherit the plant after the usual 12- month warranty has expired. In many instances the OEM has to achieve lowest installed cost for new equipment, in order to comply with project costs, while the maintenance manager is looking for minimised whole life costs from improved equipment reliability and longer operating life.

Kingfisher, a specialist in wear protection across all types of industries - process, power generation, water treatment, steel, extraction and bulk and materials handling - has calculated that, on average, users of its wear protection systems benefit by a factor of 5 times their initial outlay, with many installations providing wear life of up to 20-years following appropriate wear treatment.

*"Our field experience and calculations shows that it is far more profitable for companies in process industries to employ best practice from Day 1, rather than having to provide regular maintenance and repair of equipment at regular intervals due to problems associated with wear and erosion,"* said Julian Brindley, Sales and Marketing Director of Kingfisher. *"Reduced maintenance means reduced risk, reduced cost and more production uptime over longer periods - all of which are critically important to improve the efficiencies of companies in competitive markets."*

*If a process system is designed with wear protection from its inception, then overall equipment costs can often be reduced as the system chosen to protect the equipment can often alleviate the requirement to manufacture components using heavier grades of material.*

*In addition, involving a wear specialist such as Kingfisher at the design*

*stage of process conveying equipment can streamline the design, optimising process efficiency through reduced turbulence and improved material flow, at the same time ultimately delivering improved service life."*

Kingfisher has produced a graphic to highlight the benefits of its whole life cost argument. (See Table 1). The



graphic compares the ongoing costs associated with equipment and installations that do not benefit from wear protection, with the one-off (i.e. purchase) costs of enhanced protection, highlighting the continuous operational gains of the latter investment strategy.

The thrust of the argument is clear when considering the typical example of an enclosed pipework system for conveying bulk materials. The system is wear protected, and so is able to provide up to 20-years of life. With this one-off approach, the system user has little or no maintenance requirements over the lifetime of the installation. He does not have the ongoing cost problem - say every 4-years - of breaking the pipework system down - and of interrupting

production in the process. He does not have to employ specialist labour and reduces the risks associated with personnel working at height, performing hot work and lifting operations. Also avoided are the tasks of organising access platforms and plant hire, with their attendant costs - and risks; and those of devising clean up procedures for any



spillages that can occur when process pipework is perforated, thus creating an environmental issue or potential breach of legislation. As a result, the system user benefits from continuous operational gains which defray the cost of the protection system, guaranteeing a prompt ROI.



[www.hub-4.com/directory/12641](http://www.hub-4.com/directory/12641)



# Wear parts pass the test



*The Assarel Copper Mine, Bulgaria*



*Test mining excavator bucket in use at the work face on a Liebherr ER 994B - 771/14755 excavator*



*Test bucket no.1 produced from high yield strength steel with Creusabro wear plates welded into position*

**Following a comparative abrasion test program, run in conjunction with IMS Group over 12 months in extreme mining conditions, Liebherr Group is now offering customers the opportunity to purchase face shovels and excavator buckets equipped with Creusabro 8000 wear parts which have been proven to increase the wear life of the mining buckets by over 46%. Gilles Gros, product manager at IMS Group and Nick Taylor, business development manager, IMS UK, explain.**

An important area of development for Liebherr was to offer an improved alternative solution to the standard material fittings on face shovel and excavator buckets. Normally manufactured using high yield strength steel for the body, 400 & 500 HB water quenched steel wear plates welded into position provide longer wear life for the work-front facing components.

The test program was carried out at the Assarel Copper Mine, Bulgaria, renowned for extreme abrasive conditions combined with temperature and variable weather. Two identical mining buckets were used on a Liebherr R 994B excavator. Both were produced in Liebherr's manufacturing plant in Colmar, France as two-part face shovel buckets with a backdoor, for unloading the excavated material.

The main body of the bucket along with the 120 mm thick cross section beams and 200-250 HB blades was high yield strength steel (690 MPa). The fixing parts and teeth adapters were cast steel while the side edges were Creusabro 4800 steel, 90 mm thick.

The wear parts for mining bucket number 1 were made from Creusabro 8000 steel, 30 mm thick. For Liebherr's original was mining bucket number 2, made from 400/500 HB steel.

To assess the overall difference in performance the testing schedule monitored the wear parts' thickness over a period of time as well as the thickness of the cross-sectional beam on the static back of the bucket manufactured from the standard high yield strength steel. The tonnages of material moved over the same time period were also monitored.

Both buckets were tested by digging directly at the mine work face, with excavations including dynamite blow out and natural mineral face, comprising a range of minerals including sulphur bornite and malachite azurite cuprite as well as a variety of grain sizes.

The face shovels were operating 23 hours per day, 7 days a week, extracting and unloading heterogeneous mineral into dumper trucks. Mining bucket No.1, which was the IMS Group test bucket equipped with Creusabro 8000 wear parts, operated for 6 months from October to March through the 'wet season' enduring extreme cold and moisture which causes additional stress and corrosion to the steel. Mining bucket No.2 - the Liebherr original equipped with 400/500HB wear parts - operated for 6 months from April to October, through the 'dry season'. ►



## Results - Bucket 2

The original Liebherr manufacture bucket was used for 2,540 hours mining work before requiring maintenance. A serious level of wear was found in the shovel bucket due to the abrasion effect from the continual throughput of the excavated material.

Due to the concentrated wear at the back of the shovel bucket the wear protection strip extremities were totally worn away and could not be measured

The beam's original 120 mm thickness was reduced to 22 mm in thickness following the abrasion effect on the extracted mineral on the steel.

Other consequences observed from the continual wear on the inside faces of the bucket were loss of mechanical resistance and distortion leading to risk of rupture and critical maintenance requirements. However no repairs were required on the outside surfaces.

## Results - Bucket 1

On inspection after 2,600 hours use the Creusabro 8000 manufactured bucket required no maintenance at that time and went on to operate for 3,700 hours when minor refurbishment, primarily cleaning, was required.

Despite the longer working hours and more extreme conditions, the Creusabro 8000 had significantly reduced the level of abrasion and wear so the integrity of the shovel bucket was preserved and still able to operate fully.

Some grooving in the structural base of the bucket was observed but the level of maintenance required was minimal.

The wear protection strips on the static back of the shovel bucket were all in good condition. The strip measurements were easily made and showed the abrasion resistant steel had performed well compared with the standard water quenched 400/500HB resistant part, with minimal wear being recorded.



*The test program monitored the thickness of these three strips*



*No visible dimensional difference between the initial and final alignment, and all protection strips down the side of the static back of the shovel bucket are fully intact*



*Minimal wear has occurred during the test program retaining the integrity of the bucket operation. Small grooving in the structural base of the bucket can be seen*



*View of the serious wear effect in the centre of the shovel bucket. Measurements were not possible on the plate and strips due to the severe wear*

## Conclusion

The Creusabro 8000 equipped hardware provided a 46% increase in working life of the face shovel buckets, due to the wear resistant properties.

Following this program Liebherr now offers face shovels and excavator buckets equipped with Creusabro 8000 wear parts. These results have also led to Assarel placing an order with Liebherr Mining Division for five new buckets, all of which will be lined with Creusabro 8000.

 [www.hub-4.com/directory/11439](http://www.hub-4.com/directory/11439)

## Eliminating settlement ponds

**Matec has recently introduced dewatering technology to North America. The company's line of water treatment equipment has been used worldwide with hundreds of installations, for the express purpose of cleaning up and recovering up to 90% of the washwater, and eliminating settlement ponds at quarries, mines and other aggregate facilities.**

Washwater and settlement pond problems facing today's aggregate producers and mines include issues with conservation, zoning, environment, EPA flyovers and fines, water restrictions, high pumping costs, tying up real estate and the high cost of maintaining the ponds, including excavator and drag-line issues for dig-out. Overcoming these problems lies within the heart of the MATEC System, the only HPT High Pressure Filter Press and decanter-style Clarifier. Besides having a small footprint, the system has lower maintenance costs than any other methods of water recovery or dewatering, and essentially has no moving parts. The end result is a super-dry dirt cake that is so dense and so dry (80%+ solids), it can easily be stockpiled and sold as a desirable product for landfill cover or other purposes; the dirty water is cleaned, and as much as 90% of the water is recycled back into the process. The most significant benefits of going pondless are substantial cost savings and quick ROI as a result of freedom from environmental problems, no associated costs of settlement ponds and their upkeep, operating costs for energy, manpower, wear and tear on earthmoving equipment, and freed-up real estate.



 [www.hub-4.com/directory/13222](http://www.hub-4.com/directory/13222)





## Aggregate company backs job seekers

**Young job-seekers receive a boost from Lafarge Aggregates & Concrete UK and the Princes Trust**

Ben Tunncliffe, 20, left school with seven GCSEs and started a bricklayer apprenticeship with a local house builder. But six months shy of his eighteenth birthday, Ben's son was born.

"After my son was born I needed to help look after him, so I left home to be nearer to him. And that meant I had to leave the apprenticeship," explains Ben, from Mountsorrel, Leicestershire.

Bright and ambitious, he was able to find work as a general building assistant gaining some further construction experience. But the job didn't last and Ben found himself unemployed less than a year later.

Finding a job hasn't been easy for him, especially in a post-recessionary economy. Sadly, Ben's story is not uncommon. There are 1.5 million unemployed 16-30 year olds in the UK. And in the East Midlands alone, more than 33,100 under 25s have found themselves without work as a result of the economic downturn.

However Ben and six other young men have turned to The Prince's Trust - the UK's leading youth charity helping change young lives - for help.

In 2009, Leicestershire-based construction materials company Lafarge Aggregates & Concrete UK decided that, together with The Prince's Trust, it could make a real difference to the lives of young people. The company signed a three-year partnership agreement with the Trust - the first construction materials supplier to do so - committing to supporting the work of the Trust with donations of time, facilities and other resources.

"The Prince's Trust is an excellent organisation that gives disadvantaged young people real opportunities to develop key skills and confidence, helping them move into employment, education or training," explains Aggregates managing director Robert Whetstone, who signed the Memorandum of Understanding on behalf of Lafarge, and is a member of the Trust's joint initiative programme The Construction & Business Services Leadership Group.

He continues: "Looking after our partners and communities is an integral part of our sustainable ambitions. By supporting organisations such as The Prince's Trust, together we can help create opportunities for young people."

Creating opportunities is exactly what a team of Lafarge employees has spent the last nine months doing. Led by organisational development manager Sam Hardwick, the team has put together a two-week hands-on work experience programme, which was piloted in Leicestershire.

Linda Norville, head of programmes for The Prince's Trust in the East Midlands.

She said: "Get into' are short courses designed to give young people intensive training and experience in a specific sector. Because they're a stepping stone to employment, we only choose sectors where there are many jobs available, like construction."

The Prince's Trust highlights that a wealth of research indicates that lower educational attainment and lack of formal qualifications make it much more difficult to secure full-time employment. The organisation exists to help those with few or no qualifications - like the young men on ►



Lafarge's course - to build skills, confidence and find employment, and to provide them with personal development opportunities.

And it works. "Our results show that more than three in four young people on Prince's Trust schemes go into work, training or education, despite many lacking previous qualifications," says Linda.

Lafarge's programme - Get into Construction Materials (GiCM) - allows participants to experience all areas of the business, from production and distribution to technical and restoration.

The course began with an introduction to Lafarge and a "speed-dating" session where the seven participants had the opportunity to meet and question seven Lafarge colleagues from across the business. This was followed by a full company health and safety induction led by Lafarge health, safety, quality and environment manager Dawn Edwards.

On day two Ben and the six other young people - all from the East Midlands - received Emergency First Aid training.

They then spent the remaining 11 days working closely with Lafarge employees at various Leicestershire sites including Mountsorrel Quarry in Quorn - Europe's largest granite quarry; Shawell sand and gravel quarry near Lutterworth; and Granite House, the company's head office in Syston. The course also included time at ready-mixed concrete and asphalt plants and a day out with a company lorry driver.

"We've designed the course to maximise participation and interactivity," explains Sam Hardwick. "The industry is complex and multifaceted, but GiCM exposes them to where building materials come from, how they are produced, how they are used and what happens to quarries when extraction is finished."

David Taylor, 25, was also on the course. David, who has dyspraxia - a speech and co-ordination condition, gained six GCSEs and a BTEC in automotive engineering from Leicester College. He worked for five years valeting cars at a local Ford dealer before being made redundant in April.

David reflects: "I wanted to come on this course to learn something new and improve my skills to get a better job. I want to know how to deal better with companies. Plus, quarrying is interesting and I liked the idea of working with big machinery."

The benefits are not limited to The Prince's Trust course participants. Lafarge has provided four employee volunteers, who have been earmarked as ones for the future, as mentors. Each mentor has worked with up to two participants.

Distribution service agent Zoe Atkins, 25, has been with Lafarge for four years. She mentored Ali Adam Ishaq, who came to the UK from the Sudan five years ago.

Zoe said: "Being a mentor has been a great experience - it's something I've never done and at first I was a bit nervous. But doing it has really boosted my confidence and will help me in my job"

GiCM spanned 13 days and saw the seven participants leave with three qualifications: emergency First Aid, fire safety and a CSCS card.

It was these qualifications which ensured course attendee Matt Leboutillier secured a job with Walkers Crisps. Matt, 20, from Newparks, Leicester, said: "I really enjoyed the course and the first aid and fire marshal training helped me get the job with Walkers. So thanks to the course I'm looking forward to getting back into work."

Another attendee has also been successful in finding work. Daniel Theobald is training as a kitchen tiler.



[www.hub-4.com/directory/8830](http://www.hub-4.com/directory/8830)

## Mobile equipment for recycling and quarrying industries

For more information on the next issue of Product Focus or to book an advertisement in the next feature please contact:

**Telephone: 0845 680 0024 [www.hub-4.com](http://www.hub-4.com)**

2011 Media pack is now available, to request it email [editorial@hub-4.com](mailto:editorial@hub-4.com)



**For material processing & recycling...**



**MOGENSEN**

Harlaxton Road, Grantham, Lincolnshire NG31 7SF, England  
Tel: +44 (0)1476 566301 Fax: +44 (0)1476 590145  
E-mail: [sales@mogensen.co.uk](mailto:sales@mogensen.co.uk)  
Web: [www.mogensen.co.uk](http://www.mogensen.co.uk)





## The big screen

**Schenck Process has produced its biggest screen for delivery to Asia. The gigantic LinaClass SLG linear vibrating screen measures 4 x10 m. It is the biggest Schenck Process screen ever built. Designed, assembled and tested by Schenck Process, Darmstadt.**

The screen was designed for the screening of cooled sinter at a feed rate of up to 450 tph. The sinter is screened in advance and has a grain size of 0-10 mm. The fines are 0-5 mm in size, and the so-called returns are screened at an efficiency of around 96 percent. The high quality of screening required is guaranteed by the screening machine design and, moreover by the arrangement and type of screen panels selected.

Schenck Process has designed a machine suited to the toughest requirements.

The screen body alone weighs close to 30 tons. It is driven by two Schenck DF 604 V force exciters, which in turn are directly driven by the motor using drive shafts.

The screen is equipped with a vibration isolation frame to minimise dynamic forces and is mounted on a robust trolley with drive units, allowing for displacement in a longitudinal direction. The intermediate chute is integrated in the trolley as a collecting hopper for screen returns. The overall weight of this unit is approximately 65 tons.

The screen body is constructed with accurately fitting components. After welding, the hollow cross members and the exciter bearer are stress-relieved and the flange areas machined. The fastening uses a HUCK rivet connection for a secure, long-term solution. Sinter is a highly abrasive material, and as a consequence Schenck Process attaches utmost importance to wear-protection measures in order to minimise possible follow-up costs.

All main parts of the screen body are protected with interchangeable wear-protection liners.

LinaClass SLG can produce a large open screen area in the individual screen panels while ensuring a long service life thanks to state-of-the-art manufacturing methods. Stuck grain is avoided by a special perforation geometry. Extensive testing with a natural frequency measurement ensures full functionality right from the start.

Reliability, cost effectiveness, safety and a quick screen panel change are important characteristics for high availability.

The screen will be delivered at the end of 2010 and will be put into operation in Asia in 2011.



[www.hub-4.com/directory/11591](http://www.hub-4.com/directory/11591)



# Ship loader conveyor upgrade in Port of Seward

## New conveyor architecture helps Alaska coal terminal reduce dust, while increasing throughput

The Port of Seward has completed a conveyor system upgrade for its coal handling operations that has raised throughput by an estimated 20%, allowing Alaska's largest coal producer to better compete for international customers. By installing the new EVO Conveyor Load Zone from Martin Engineering, the terminal has increased the average load rate for the entire ship loading process from 700 tph to 858 tph.

With throughput increased, ship loading times are being reduced, driving down costs and making the exported coal more affordable to overseas buyers. "Basically, we should be able to knock one day off our loading time for each ship," observed Steve Denton, VP of business development for Usibelli Coal Mines.

The terminal has progressed from an absolute maximum of 18,000 tonnes a day with dry coal and optimal loading conditions to more than 20,000 tonnes a day on average - including operations in poor weather and less than ideal operating conditions. "Over the course of a million tonnes per year, that's a major savings for our customers, as they'll be able to enjoy better FOB prices. We also save on the cost of ship demurrage, which helps pay for the cost of the conveyor investment," Denton said.

### Port a Critical Link

Since 1985, the Port of Seward has shipped over 16 million tonnes of coal, all of it originating at the Usibelli Coal Mine 400 miles to the north, which currently exports more than 45% of its annual production. UCM and its affiliate Aurora Energy Services, LLC (operator of the Seward coal terminal) have no doubt that the port plays a key role in their future. With one of Alaska's few year-round ice-free harbors, Seward has the ship-loading resources to feed the expanding international export market. It's also the southern terminus of the state-owned Alaska Railroad, with terminal facilities owned by the railroad and operated by AES.



major obstacle to expansion was the port facility's aging infrastructure, which had seen few improvements prior to 1999. Upgrades began that year when Alaska Railroad purchased the terminal, but despite best efforts, by 2008 the facility had become a logistical bottleneck and a source of occasional dust complaints.

One of the issues was the ship loader itself. With a view to expanding Usibelli's export market share, AES began taking steps to increase throughput at the Port facility, but initial efforts to reach 2,000 tph proved almost entirely unsuccessful. "Working with what we had, we could only reach 600-700 tph," said AES Terminal General Foreman Vic Stoltz. "We made some improvements and got up to a steady run rate of 750 tph. But there were still some major issues with coal backing up in the chute."

Even as some gains were realised, AES found that with higher-speed operation, dust became an increasing problem. The ship loader wasn't designed to contain fugitive material, and airborne coal dust generated negative attention, threatening community relations. The company reports that the recent chute upgrades have virtually eliminated spillage and dust issues.

## Combining Solutions

The need to increase throughput at Seward while protecting the region's air quality and natural splendour led AES to investigate new conveyor technology from Martin Engineering. After testing the Usibelli coal to determine its flow properties, Martin specialists used Discrete Element Method modelling to design a chute capable of properly handling the coal.

*"When we got back the computer models, we saw that we were able to pass 1500 tph and still control dust, all while keeping within our capital budget," said Stoltz. "When our management realised that we could increase throughput, increase safety and reduce our environmental impact all at once, they were completely in favour of implementing the suggested upgrades," he recalled. ►*







### A New Conveyor Architecture

The new transfer point makes use of Martin Inertial Flow transfer technology, the entire chute custom-engineered and modelled in 3-D to provide the optimum design for the material and flow rate needed. The 'hood' controls the flow of material from the discharging conveyor,

maintaining a coherent material stream and minimising induced air. A smooth loading chute - or 'spoon'- places the stream of coal onto the ship loader's boom conveyor at the proper speed and angle with minimal impact, reducing material degradation, belt abrasion and the expulsion of airborne dust.

Martin Engineering supplied other redesigned components to contain material and improve serviceability. Belt support cradles were installed under the drop chute to absorb impact and stabilise the belt line and prevent spillage. AES also mounted EVO External Wearliner on the load zone's existing skirtboard for improved sealing. Because it is attached from the outside, it is easier to install, inspect and adjust than conventional seals, without requiring confined space entry.

The first thing the AES crew noticed was an improved material load rate. During the initial shakedown run, operators noted the conveyor's weigh scale pegged at 100%, but the belt didn't shut down. The old system peaked at 1000 tph (including ship and hatch moves), but with new components in place, the system now hits peaks of 1500 tph. "We don't have slowdowns due to the chute clogging up, which previously was a constant battle," Stoltz added.

Equally important, following the system's initial run, the ship loading area was virtually free of fugitive material and dust build-up, allowing AES crews to reduce their cleanup time from days to just hours. "The clean-up time has been reduced by more than 40 man-hours per shipload," said Stoltz.

To AES, the environmental and worker safety benefits of Martin Engineering's upgrades have been just as important as the production advantages. "Faster loading times help manage our risk, from both the environmental and safety perspectives," commented Bart Coiley, AES manager of environmental affairs. "The longer it takes to load a ship, the greater the chances of creating dust."

Summarising the experience, Denton said, "The work that Martin Engineering did eliminated a chronic bottleneck for us. There were many things we were doing to increase our throughput, but it was impossible to realize the full benefits until we cleaned up our loading operation with the installation of the new EVO hood and spoon transfer chute." Stoltz added: "With these upgrades, we're earning our money back every time we start it up."



[www.hub-4.com/directory/534](http://www.hub-4.com/directory/534)



## Green Weigh to Recycle your Weighbridge

**METTLER TOLEDO** has launched a revolutionary new load cell. The **POWERCELL PDX**, which eliminates the typical maintenance repair costs and downtime related to conventional analogue vehicle scales. More importantly, this new product will help you prevent unnecessary and potentially substantial profit losses.

The new **POWERCELL PDX** load cell is the first digital load cell of its kind to feature a network with absolutely no junction boxes. No other analogue or digital load cell on the market offers this remarkable capability. This single design innovation attacks service breakdowns where they are most likely to occur. The load cell takes reliability to a new level by including predictive diagnostics to keep users continuously informed of their scale's performance. This includes: automatic notification of weighing errors, overloading, environmental conditions, network health, load cell voltages and enclosure integrity without the need for maintenance prone external converter boxes.

### Complete Protection against Lightning Strikes

**METTLER TOLEDO** provides complete protection against lightening damage with **StrikeShield Protection**. Each **POWERCELL PDX** load cell system has its own built-in lightening protection. The average lightening strike is approximately 30,000 amperes; but unlike conventional analogue load cells, that's not a problem for the **POWERCELL PDX**. The load cell meets the toughest standards for protection against lightening (International Electrotechnical Commission IEC 62305-1).



### Highest Weighing Accuracy

Each **POWERCELL PDX** load cell uses an on-board microprocessor to monitor internal and external influences that effect weighing accuracy. By compensating for changes in those influences, the microprocessor enables each load cell to provide accurate weights in virtually any environment. This load cell maintains weighing accuracy by alerting users to a potential problem within the network. If a problem occurs, it can be fixed quickly. With a conventional analogue load cell system, users may be operating for months with an unknown load cell or cable problem: providing inaccurate weighing results until the error is uncovered during the next inspection. As a result, a 60 pound error can add up to thousands of pounds worth of lost profit, even when users are weighing as few as 50 vehicles per day.

### Unmatched Value

The **POWERCELL PDX** load cell offers a return on investment that no other load cell can match. When evaluating any scale, cost of ownership is an important factor. With its exceptional reliability and advanced diagnostics, the **POWERCELL PDX** load cell virtually eliminates the unplanned service costs that make other load cells a risky investment; it provides unmatched value over the life of the scale.



## Kärcher launches award-winning high productivity scrubber drier

**Kärcher's** new, award winning **BD 50/40 RS** step-on scrubber drier offers the productivity of a ride-on machine with the simplicity and compactness of a small walk-behind. Following the success of the larger **BD 60/95 RS**, known to many as the 'Chariot', the new **50/40** uses the same step-on operator position offering incredible visibility, control and productivity, recognised by its **ISSA Innovation Award** at **InterClean 2010**. The machine's tiny footprint makes it very easy to store while the 36v batteries offer superb run times. With a 50cm cleaning disc and 40 litre clean and dirty tanks, the **50/40** is the most compact ride-on machine on the market and offers incredible productivity and efficiency.

### High productivity

50% more efficient than similar-width walk-behind machines and with simple, intuitive controls. The machine comes with a choice of traditional wet-cell or **Flex** anytime-charge batteries, and a wide range of brush and disc pad options.

### Exceptional visibility

Allows accurate, safe operation in tight or congested areas and easy cleaning up to edges and around corners. The elevated driving position keeps operators comfortable and alert.

### Total convenience

The small footprint makes the machine easy to store, while the clean and dirty tanks pivot completely out of the way for easy maintenance and service.





## Terex® Finlay J-1480 tracked jaw crusher now available!!

**The Terex® Finlay J-1480 jaw crusher was successfully launched at the Hillhead 2010 exhibition in the UK.** The aggressive high performance machine has been well received by large mining, quarry and owner operators. At the Hillhead show the machine was working in the live demonstration area alongside the Terex Finlay C-1550 (which was being previewed at the show in advance of its launch later in the year) and a Terex Finlay 984 horizontal scener. The machine demonstration generated a lot of interest and the show with owner / operators impressed by the output of the machine. There was also a static display of a second J-1480 on the main Terex Finlay show booth.

The Terex Finlay J-1480 was also showcased at the recent Queensland Mining & Engineering Exhibition in Australia by the local dealer Finlay Australia. The machine generated a lot of firm interest at the show and already a number of machines are working in Australia, with more on the way. (see attached image). The impressive machine caught the eye of Tony Abbott, Leader of the Opposition in the Australian House of Representatives and federal leader of the Liberal Party of Australia who was on the campaign trail and asked for a tour of the machine!!

The Terex Finlay J-1480 incorporates the Terex® Jaques single toggle jaw crusher which boasts a throughput capacity up to 750mtph depending on application and material. The machine is available with direct drive to offer improved fuel efficiency and

greater power utilisation or hydrostatic drive which offers reversible operation for clearing blockages and demolition applications. The large 10m<sup>3</sup> hopper has hydraulically folding sides and hydraulic wedge clamp system providing faster machine set up time. The machine features a vibrating pan feeder linked to an aggressive independently driven pre-screen which provides optimum separation of dirt, fines and difficult materials.

### Key features of the J-1480

Terex® Jaques Jaw with fully hydraulic adjustable closed side setting

Hydrostatic & Direct drive systems with advanced electronic control system

10m<sup>3</sup> (13yd<sup>3</sup>) hopper capacity. Optional hopper side extensions are available

Independent Vibrating Pan and Screen

Selectable discharge to by-pass conveyor or main conveyor

Cat C13 power unit

### NEW Terex® Finlay C-1550 tracked cone crusher

The Terex® Finlay C-1550 was recently previewed at the Hillhead exhibition alongside the Finlay J-1480 jaw crusher. The Finlay C-1550 incorporates the Terex 1300 cone crusher with direct drive. The machine features pre-screen system with a



single deck 8' x 5' screen and 1200mm belt to remove fines improving plant capacity, product flexibility and liner wear reduction. The pre-screen can produce a roadbase product from the side conveyor which can be fitted on either side. The cone features variable speed, tramp relief system and 'on the fly' closed side setting. The large hopper/feeder features a metal detection and purge system which detects metal contaminants on the feed belt.

Terex® 1300 Cone Crusher

Fully Hydraulic CSS Adjustment

Direct Drive through Fluid Coupling

Hydraulic Tramp Relief System

Automatic metal detection and purge system

8m<sup>3</sup> (10.4yd<sup>3</sup>) hopper capacity as standard

This machine was well received by end users and Terex Finlay already has advance orders for this machine.



[www.hub-4.com/directory/305](http://www.hub-4.com/directory/305)

## Silt Busting the Easy Way!

**Haith Industrial has just launched their new range of lamella settlers onto the market. Designed and developed by the Haith in-house team the new range of Haith Silt-Splitter offers six models with a flow range, or capacity ranging from 25<sup>3</sup>/hr to 150<sup>3</sup>/hr.**

With many activities generating silt laden water, disposal can often lead to pollution in rivers and water courses unless the appropriate silt management measures are put into place.

Specifically designed to meet the rigours and requirements of the modern work site the Haith Silt-Splitter is fast and simple to set-up and is ideal for quarry, recycling and construction sites, restricted spaces and temporary installations.

Occupying a relatively small footprint the Haith Silt-Splitter is fully automatic with a sludge density system with automatic discharge either to a skip, belt press, plate press or centrifuge, and is available either skid mounted, or as a mobile trailer mounted unit.

Haith can also provide a skid mounted Silt-Splitter-25 test rig complete with a mounted centrifuge which is utilised for test or demonstration.



Full technical support is also provided on silt management, fine particle settling, chemical dosing and process support.

Haith Industrial have been manufacturing equipment since 1965 helping large and small companies in the UK and abroad to improve production, produce quality, reduce labour and automate production. They manufacture a wide range of equipment used in many industries; from waste and water treatment systems to equipment for the handling of natural or reconstituted building stone, block pavers or clay bricks, including robotic stacking and packing systems which reduce labour costs and increase production.



[www.hub-4.com/directory/373](http://www.hub-4.com/directory/373)



## Bag dump system has integral compactor, dust collector and flexible screw conveyor.

A new Bag Dump System from Flexicon (Europe) Ltd. collects dust generated during manual dumping, compaction of bags and conveys bulk material downstream. The unit is intended to reduce material waste and eliminate the need to clean a remote dust collection site, while protecting workers and preventing plant contamination.

Pre-engineered, pre-wired and ready to plug in and run, the compact system integrates a receiving hopper, dust collector, bag compactor and flexible screw conveyor on a frame which streamlines installation and allows for easy relocation if required.

The bag-dump-station portion of the system collects dust generated during manual dumping and compaction of bags by means of a high velocity vacuum fan that draws dust away from the operator onto two cartridge filters. An automatic reverse-pulse filter cleaning system releases short blasts of compressed air inside the filters at timed intervals causing dust build-up on the outer surfaces to fall into the hopper. Filters are readily accessed by removing the interior baffle and are replaced rapidly using quick-disconnect fittings.

Vacuum created by the dust collector also serves to contain dust generated when the operator pushes empty bags from the dust hood, through an integral chute, into the bag compactor. It also recovers dust created during bag compaction, conserving useable product while reducing the frequency and cost of trash disposal.

The fully enclosed, flexible screw conveyor handles free- and non-free-flowing bulk materials ranging from large pellets to sub-micron powders, including products that pack, cake, seize, smear, fluidize, break-apart or separate, with no separation of blended products.

The entire system, including the flexible screw conveyor, is available mounted on frames with boom and casters for in-plant mobility. It is constructed from stainless steel, finished to food, dairy, pharmaceutical or industrial standards or in carbon steel units with durable industrial coatings. Hoppers are also available, configured for connection to pneumatic conveyors or process equipment.



**Bag Dump System has integral compactor, dust collector and flexible screw conveyor.**



## CMB International set to launch the all new T88i Tracked Crusher:



**Original CMB T88 Tracked Crushing Plant.**



**How the new plant will look from the rear (dirt conveyor not shown):**

As part of their continued focus to meet the ongoing changes and developments within the aggregate industry, CMB's existing T88 has undergone numerous technological advances to provide better solutions for customers, even those with tough applications. The previous model T88, has been phased out to make way for the new improved model T88i which now features:

- Reversible hydraulic drive for the crusher
- LH/RH Dirt conveyor discharge
- LH/RH Magnet discharge
- Removable feeder sub-frame
- Modular construction
- PLC control
- Novell unblocking feature
- Revised dirt and product conveyors
- Increased discharge conveyor height
- Stepped Grizzly feeder with integral screen mounted below grizzly bars
- Power plant options including CAT C13
- Enhanced access to the tail drum
- Increased hopper capacity
- Failsafe interlock system for added safety
- A new separate Radio and Pendant Control for major controls
- Load sensing feeder control
- Lower level fuel filling with a large capacity fuel tank

The new model represents the cutting edge in mobile crusher design and heralds a new era for CMB.

At the heart of the plant is the same rugged 1100 x 800mm Rockmonster jaw crusher, featuring hydraulically operated jaw adjustment, which has already proven to be very reliable in the field, capable of crushing the hardest granites, grit stones and ores in Africa, Europe and beyond.

The T88i shares some of the features of the old model, but is even more user friendly with improved safety features, dirt conveyor performance and increased choices regarding crusher bypass/dirt discharge options, dependant on what is being crushed.

As with all CMB Crushers and Screens, the continued emphasis is on producing ruggedly constructed, cost effective, quality equipment which is easy to maintain, whilst meeting all the latest safety and accessibility requirements the modern extractive industry demands.

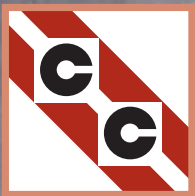






# CONVEYOR PRODUCT FOCUS

## Canning supply new ground conveyor system to Welsh Slate.



**Total  
Conveyor  
Confidence ...**

Phone +44 (0)1909 486166 Fax +44 (0)1909 500638  
Email [sales@canningconveyor.co.uk](mailto:sales@canningconveyor.co.uk) [www.canningconveyor.co.uk](http://www.canningconveyor.co.uk)

For more information or to book an advertisement in the next feature please contact:

**Telephone: 0845 680 0024 [www.hub-4.com](http://www.hub-4.com)**





## Conveyor Solutions – now with Rulmeca Rollers!



Metso Conveyor Solutions offer reliable and efficient solutions throughout the entire material flow. We develop, manufacture and market quality conveyor components, accessories and services that increase the reliability of our customers operations.

Now we are welcoming Rulmeca Rollers in our quality product range!

For more information about your single source supplier, please contact us

Metso (UK) Ltd, tel +44(0)1788 532121, [minerals.info.uk@metso.com](mailto:minerals.info.uk@metso.com), [www.metso.com](http://www.metso.com)





## Canning supplies two new conveyor systems for Hanson Shardlow.

**Owned and operated by Hanson Quarry Products, Shardlow is a sand and gravel quarry located between the villages of Shardlow and Aston-upon-Trent, Derbyshire.**

Shardlow Quarry is well known in archeological circles as in 1998 workmen spotted what appeared to be a hollowed-out tree trunk with stone inside which was identified as an ancient logboat. The logboat, at over 10 metres in length, was too long and heavy to be removed in one piece, so it was decided to cut it into smaller sections. The boat was kept damp until all the sections could be lifted out of the gravel layers and stored in underwater tanks to stop the fragile and degraded materials from shrinking and collapsing as they dried out. After 18 months the sections were loaded into a large freeze-drier unit to remove the remaining water, which took about 10 weeks to complete. Once treated and dry, and with all the pieces re-assembled, the sections were despatched to Derby Museum and put on display.

Recently there have been two new conveyor systems installed at the quarry. Designed and manufactured by Canning Conveyor of Worksop the new systems have been located in an existing concrete culvert.

Recently commissioned by Canning the first system, essentially a landfill conveyor supplies backfill material to the working face. Canning supplied a new 40 tonne, minimum capacity heavy duty receiving hopper which has been designed to accept -200mm waste landfill material from reversing quarry dump trucks and to deliver via a belt feeder onto a new 1000mm wide belt conveyor at up to 350 tph.

This hopper which is fitted with a 200mm square aperture hinged product grid has been fabricated from 6mm thick mild steel plate stiffened as required with rolled steel sections and lined on all internal sloping surfaces with 10mm thick low friction white perplas. The hopper outlet is also fitted with a screw type guillotine gate for adjustment of material flow.

Material from the hopper is fed onto a new 900mm wide troughed belt feeder fitted with a low speed high torque shaft mounted drive unit. Featuring heavy duty steel drums, torsion type primary and secondary belt scrapers, screw take up at the tail end, full length skirt plates a 'Davis Derby' emergency stop pull wire system completes the specification.

Material is then fed onto a new 1000mm wide x 82.5m long approx troughed belt feed conveyor which runs horizontally for approximately 60 metres through an existing concrete culvert and then elevating at 15° to discharge into waiting dump trucks.

This conveyor consists of standard field conveyor sections for the horizontal section with the elevating section of substantial lattice frame construction with a 750mm wide galvanised open mesh walkway full length one side and a three sided platform around the head.



This conveyor has been designed to be stop and started fully loaded, on a regular basis for speed of loading.

Canning completed the installation by modifying an existing trestle from Hanson's Clee Hill Quarry near Ludlow to support the elevating section.

Canning Conveyor also supplied a second system for Mineral Conveying. This system, virtually identical to the first operates in the opposite direction with the new 40 tonne minimum capacity, heavy duty receiving hopper receiving 100mm 'as dug sand and gravel' material from reversing quarry dump trucks, which again is delivered by an identical belt feeder onto a 750mm wide belt conveyor at up to 350 tph.

The new 82.5 metres long troughed belt feed conveyor performs an identical function as in the first system, discharging into waiting dump trucks.

This conveyor was also designed to utilise existing lattice frame sections from the Clee Hill site which have been modified for the horizontal and elevating sections with new sections fabricated for the curved section and head and tail ends. Again an existing trestle from the Clee Hill site was modified to support the elevating section.

Canning successfully completed the mechanical installation, belt fitting, vulcanising and commissioning of both systems in the last quarter of 2009.



[www.hub-4.com/directory/1715](http://www.hub-4.com/directory/1715)





# Greenbank Materials Handling 'Complete Conveying Solutions'

**Greenbank Materials Handling (GMH) is a leader in engineering design and manufacturing, supplying a global customer base with a wide range of materials handling products and services.**

GMH combines decades of experience in the provision of bulk and materials handling products, conveying and industrial weighing with strategically-aligned partner companies, such as Jeffrey Rader and Aircure to offer bespoke, turnkey solutions for a variety of applications across the spectrum of heavy industry.

Whether conveying crushed ore, coal, sand, gravel, or other bulk materials such as biomass fuels, GMH offers the most advanced industrial weighing applications on a variety of materials and industries.

The GMH weighing portfolio features belt weighers which have time and again proven robust in applications ranging from quarries, mines, power generation, iron, steel, chemical and food processing.

Models such as the HS375 and HS276 combine quality performance and affordability in a modular format with continuous flow rates of up to 5000mtph. These models can be installed into any type of conveyor where space is restricted, and are easily mounted into conveyor stringers or can equally be modified for installation into mobile crushers.

GMH is also at the forefront of developing solutions for the new and emerging biomass fuel handling market, and has expanded its portfolio further with the introduction of Pipe and Tube Conveyor solutions. These are becoming renowned for providing considerable environmental and economic advantages over conventional conveying methods.

By using an enclosed belt design to transport bulk materials pipe conveyors successfully minimise dust generation and spillage providing maximum protection from external contamination and eliminate costs associated with spillage containment. The flexibility of design enables significant reductions in conveyor footprint and power consumption.

Through technical collaboration with Bridgestone Corporation, the pioneers of pipe conveyors, GMH offers customers the latest in enclosed belt transport systems, supported by an unrivalled level of expertise in conveyor technology.



[www.hub-4.com/directory/361](http://www.hub-4.com/directory/361)



## Bulldog – belt alignment & rip detection switch

**4B Braime Elevator Components have launched the new 4B Bulldog belt alignment and rip detection switch. This electro-mechanical system has been designed to detect dangerous misalignment of the conveyor and also detection of belt tear damage**

The switch will detect horizontal misalignment of belts when contact is made with the roller; the roller arm will be forced to pivot by the belt activating a switch at 15° to trigger an alarm, and 30° to trigger a shut down procedure of the conveyor. The sensors are usually installed in pairs on opposite sides of the belt.

A steel flexible wire is set below the running conveyor belt approx 20-30mm attached by a rare earth magnet at each end. If the belt is ripped or damaged the wire is pulled away releasing the magnet connection which in turn will activate a switch.

The Bulldog's robust design makes it ideal for the use in heavy duty applications such as quarrying and mining. It is easy to install and doesn't need calibrating.

The Bulldog is compatible with 4B's CBS2 Elite belt alignment monitor and the Watchdog Elite monitoring system.

The Bulldog has been approved for use in hazardous areas according to ATEX.

4B Braime Elevator Components is a leading supplier of level controls, intelligent sensors and safety control systems that prevent costly downtime and minimize the risk of explosion in hazardous areas.

For a catalogue or more in-depth information, please visit 4B's website at [www.go4b.com](http://www.go4b.com) or send an email to [4b-uk@go4b.com](mailto:4b-uk@go4b.com).



[www.hub-4.com/directory/2281](http://www.hub-4.com/directory/2281)







## Quarry Plant & Industry Ltd



### Conveyor belts available from stock include:-

Standard EP belt	Rip check belt
Chevron belt	Nitrile belt
Mag belts	Heat resistant belt

From 500mm to 2000mm wide

### Complete vulcanising service

Hot & cold repairs	Mechanical repairs & joints
Drums lagged	Fully experienced teams



### Idlers & rollers

UNIROLL system 4" & 5" rollers  
available from stock along with  
all interchangeable ends



### Drums & Pulleys

Standard stock sizes for belts  
600,650,750,800,900 and above  
Ring locked shafts for ease of removal



### Other services include

Full conveyor systems  
Steel backed rubber sheets & elements  
Conveyor covers  
Conveyor belt turning device  
Compensators  
Air Cannons  
Specialist chute lining systems



#### Q.P.I. Ltd

Unit 14 Moore Road  
South Leicester Industrial Estate  
Ellistown, Leicestershire LE67 1EJ

**Tel 01530 265 900**

Fax 01530 261 078

Email [Sales@qpiltd.co.uk](mailto:Sales@qpiltd.co.uk)

**[www.qpiltd.co.uk](http://www.qpiltd.co.uk)**



## Nordberg LT125 mobile crushing plant connected into a LL12 mobile conveyor system.



www.hub-4.com

**In addition to mobile crushing, Metso's Mining and Construction Technology has developed an independent product series for mobile conveying. Nordberg LL Series mobile conveyors are designed to link mobile, primary crushing plants to further processing stages in quarries and mines.**

These mobile conveyors are able to follow the primary unit as it moves along the quarry face. Thanks to the excellent mobility, the conveyors can be easily moved to a safe distance from the face for blasting.

The mobile conveying system achieves substantial savings in operating costs because it replaces dump truck

haulage. Mobile conveying system results in lower level of dust and exhaust gas emissions and improves work safety.



[www.hub-4.com/directory/560](http://www.hub-4.com/directory/560)





# A Masterful Performance In Ferrous Recovery

Earlier this year, Master Magnets were contacted by Guernsey Recycling Ltd about an under-performing Drum Magnet that was supplied by one of Mastermag's competitors. They were keen to find out whether or not Master Magnets felt that carrying out a refurbishment on their existing drum would enhance its performance.

So that Master Magnets could get a better idea of the drums current condition and performance, an Engineer was sent to inspect the unit on site in Guernsey.

The engineer was firstly able to determine the magnetic strength of the Drum using a 'Gauss Meter'. A close inspection was also made on the various ferrous pieces that were not currently being extracted by the Magnet. With this information, the Mastermag engineer reported back to the sales team, who were able to use specialized computer aided software to compare the Drums current performance with the performance figures of an Electro Drum that Master Magnets recently refurbished for a Steel Recycling company in Israel.

Master Magnets MD, Adrian Coleman writes: *"It was definitely possible to refurbish the Drum Magnet and this would have most certainly improved the unit's performance but it could only be repaired using the same level of technology that was used when the Drum was originally manufactured. Magnetic Drum design has moved on a lot since then and the Master Magnets Drums are some of the most efficient units on the market today so a new unit would have been much more effective in its separation."*

After being quoted for both the refurbishment of the competitor Drum and for a brand new 'Mastermag' Electro Fragmentiser Drum, Guernsey Recycling decided that the likely difference between the extraction capabilities of both options was too significant and that it was time to replace their existing Drum and invest in a Master Magnets unit. Upon placing the order they also requested that the Master Magnets engineer from the original inspection visit was also present on site to help them with the installation of the new unit.

The Drum, which has now been running for just over two months, was successfully installed in just under a week and Guernsey Recycling are now eagerly awaiting their next shipment of steel.



The Director of Guernsey Recycling, Faye Crowe writes: *"As soon as the drum was installed we saw a marked improvement in our ferrous recovery. Our previous annual loss through poor magnet up-take was just over 1% per annum - the daily loss was clearly visible and warranted manual collection from our residue feed to catch the dropped steel. The quality and performance of the new drum has all but eliminated that 'drop rate', and streamlined our production."*

*"From advising us on the magnet order, right through to installation Master Magnets have been extremely helpful and professional; as you can see from the photo, the magnet is working very efficiently and we are extremely pleased with the results."*

The decision to replace existing Magnetic Separation equipment is not always easy to make, especially when the machinery is very large and forms an integral part of the process. For this reason, the installation can prove to be particularly difficult and not to mention time consuming. In these circumstances, having a Master Magnets engineer to supervise and assist with the installation ensures that the machine will not only be installed as quickly as possible to keep downtime to a minimum, but that the unit is also commissioned properly to guarantee optimum performance.



[www.hub-4.com/directory/541](http://www.hub-4.com/directory/541)





# WHEN PERFORMANCE MATTERS...

When it comes to your crushing and materials handling requirements, you need reliable equipment that performs in the toughest conditions.

That's why top aggregate producers choose **Continental Conveyor Products**. **Continental Conveyor Products** offers products that are a perfect fit to meet today's industry challenges. **Stamler** feeder breakers and **Continental** equipment are at work in some of the most productive materials handling applications.

**Stamler** feeder breakers are engineered to cut operating costs and increase productivity by allowing operations to work at their most efficient rate. **Continental** has pre-engineered conveyor components and has designed a set of standard units that can be utilized to provide complete conveyor system capabilities. Conveyor systems can also be designed and supplied that negotiate both horizontal and vertical curves.

**So, when performance matters, choose  
Continental Conveyor Products.**



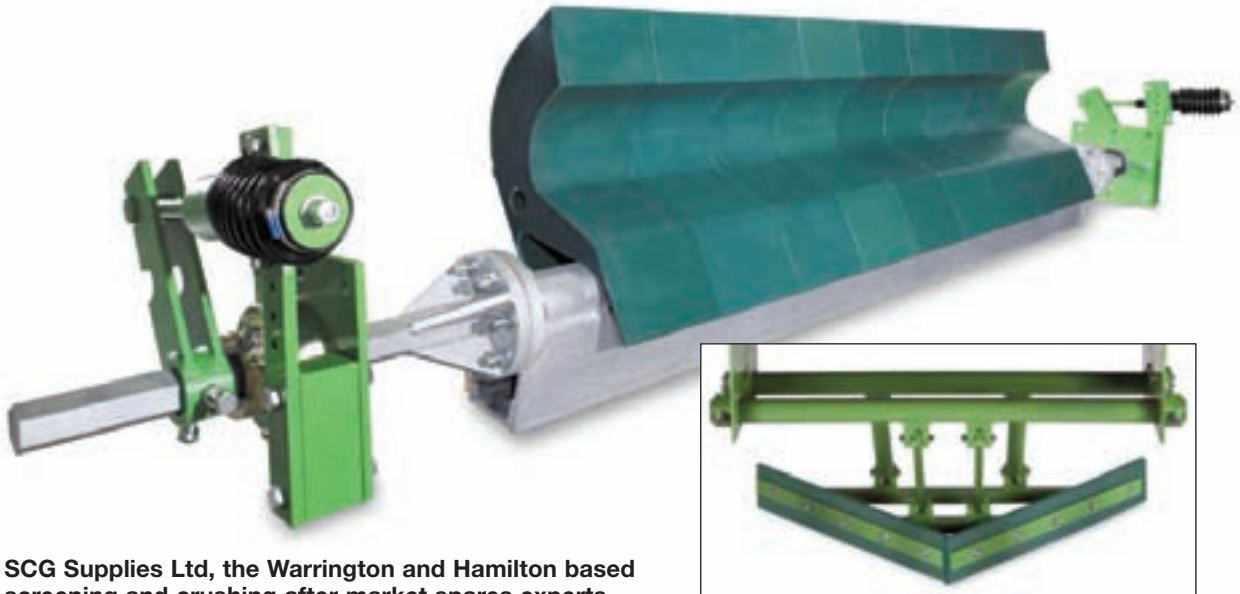
CONTINENTAL CONVEYOR PRODUCTS

West Quay Road, Sunderland Enterprise Park, Sunderland, SR5 2TD | Tel: 0191 516 5353 | Fax: 0191 516 5399





## SCG Supplies Lead the Way with STARCLEAN German made Belt Cleaning Systems.



**SCG Supplies Ltd, the Warrington and Hamilton based screening and crushing after market spares experts announce that they have won the UK distributorship for Schulte Strathaus.**

The range comprises modular carbide and polyurethane systems for all applications.

Amongst the exceptional attributes of the range are chevron belt cleaning modules and the unique 700 series drop down quick replacement system which allows one man armed with only socket wrench to completely replace or re-torque scraper media in seconds.

Known as the industry quality standard to customers in Holland and Germany Shulte Strathaus are aiming for a significant market foothold in the UK and Ireland by signing contracts with SCG.

For a site visit or quote visit [www.scgsupplies.co.uk](http://www.scgsupplies.co.uk)



[www.hub-4.com/directory/10151](http://www.hub-4.com/directory/10151)

## Tilt-Down portable bulk conveyor fits tight spaces, cleans easily.

**Bulk solids handling specialists, Flexicon (Europe) Ltd., introduce a new Bulk Conveyor with Tilt-Down Portable Base to fit through tight spaces and provide easy access for removal of the flexible screw.**

The reduced footprint enables the caster-mounted frame to maneuver through narrow aisles and around corners. With the hopper, support boom and conveyor assembly tilted down, the unit fits through standard doorways and orients the conveyor tube horizontally, allowing the flexible screw to be removed easily for thorough cleaning and inspection.

Each unit is custom configured according to the discharge height, tilt-down height, discharge overhang and overall size parameters of individual applications.

The hopper, which is equipped with a hinged lid, feeds a flexible screw conveyor that transports bulk ingredients ranging from sub-micron powders to large pellets.

The enclosed conveyor tube prevents product and plant contamination, while the gentle rolling action of material being conveyed prevents the separation of blends. The rugged inner screw is the only moving part contacting material, resulting in reduced maintenance and increased reliability.

A broad range of specialised screws is available to handle free- and non-free-flowing bulk materials, including products that pack, cake, smear, seize, plug or fluidize.

The mobile conveyor frame is constructed of carbon steel with durable industrial coatings and in stainless steel finished to industrial or sanitary standards.



*Bulk conveyor shown with hopper, support boom and conveyor assembly tilted down, allowing the unit to pass through narrow aisles, around corners and under obstructions. Horizontal orientation of conveyor tube's bottom end allows flexible screw to be removed easily for thorough cleaning and inspection.*





# KTR Couplings Ltd's new MMC combined cooler for water, oil and air!

**KTR's new MMC combined cooler simultaneously proves its worth three times: Used as a water cooler, used as an oil cooler-cooling either hydraulic or gear lubricant oil, used as a charge air cooler it assures the right temperature of the combustion air. In addition, it can even be used as a fuel cooler!**

The MMC also proves that less is more. Less size: a compact design offers greater options for installation. Less expense: costs are reduced and efficiency increased thanks to the MMC's great adaptability covering a diverse range of applications. This makes it the ideal cooling power pack for mobile agricultural and construction machines, but also stationary I. C.-engines.

## Product characteristics:

- High-performance coolers from aluminium for different media in one housing:
- Water coolers
- Oil coolers
- Charge air coolers
- Fuel coolers
- Design for rough conditions of use
- Selection according to thermal specifications
- Selection of laminae meeting the requirements of application
- Supply with cooler and hydraulic motor
- Block thickness from 32 - 200 mm
- Use in mobile machines like agricultural and construction ones etc.

Every KTR combined cooler is developed in close cooperation with our customers, taking into account the necessary cooling power. The cooling elements can either be used individually or combined and can be arranged "side by side" or in "tandem". Depending on the application MMC coolers can be equipped with fans which are driven hydraulically or electrically. Two options are available 12/24V or 230/400V electric motors. On bigger machines hydraulic systems have proven their worth subject to higher efficiency, adaptability and lower noise emission. Regardless of the mode of drive we use the latest design of fans. They not only operate very efficiently, but also very quietly. Thus, if it is noisy on a construction site, do not blame the new MMC combined cooler!



Made for Motion



## KTR Couplings Ltd

Unit 7, Robert House, Acorn Business Park,  
Woodseats Close, Sheffield England S8 0TB

**Tel: 0114 258 7757**

Email: MMC@ktrcouplings.co.uk

**www.ktrcouplings.co.uk/MMC**

# Canning supply more equipment to the Recycling Industry

Canning Conveyor has recently completed a project in the recycling Industry for Reuse Glass UK Ltd which involved the supply and installation of a new transfer conveyor and associated equipment.

Based in Knottingley - West Yorkshire, Reuse Glass are Glass Recyclers who manage a daily incoming mixed stream of waste glass. Needing to upgrade and modify their existing processing system the company contacted Canning Conveyor to supply a new transfer conveyor.

Canning Conveyor were tasked with the supply of a 3.5 metre long x 450mm wide transfer conveyor which was supplied with a crown and lagged drive drum with scraper, tail drum and adjustable 3-roll idlers. Canning also designed manufactured and supplied a new two way head chute complete with hood and associated chutes.

The equipment for the whole project was subsequently installed on-site by Canning engineers. Associated electrical work was carried out by Jenkinson Electrical of Doncaster.

## Further system modifications:

Canning Conveyor will also be involved in a further project on the Reuse Glass processing system which will require modifications to an existing elevated conveyor. This modification will involve splitting and then raising the back of the conveyor. Canning will then fit a new discharge end (complete with magnetic drive drum) that will feed onto a repositioned 'eddy current' separator. The existing eddy current discharge chute will also be modified to feed the glass stream onto a new tail end/feed unit which will be fitted onto the other half of the split conveyor allowing any non ferrous metals to be fed by chute into an existing mobile skip. To ensure the ferrous removal the back end of the conveyor will be fitted with a chevron belt, whilst the front end will be fitted with a wide plain belt.

John Witheford - Production Manager of Reuse Glass, commented, "The Canning team were very professional and completed the project within the allotted time frame which left no room for error due to tight production schedules. Furthermore they were also very competitive with their pricing."



[www.hub-4.com/directory/1715](http://www.hub-4.com/directory/1715)





*Here is a Hagglunds hydraulic belt tension system as used on a Continental Conveyor Ltd belt conveyor system for a tunnelling operation on the Channel Tunnel Rail Link.*

## Hagglunds Drives provide Conveyor belt tension systems to Continental Conveyor Ltd.

**The essential requirements for a large conveyor belt tension system is to provide an accurate set slack side tension which is consistent in all conditions whilst the conveyor is running. This prevents sag in the return belt and loss of troughing contour in the carrying strand of the belt. A fast response time is important to eliminate transient peaks during changes in the conveyor loadings absorbing the elastic belt stretch.**

It is clear, that unless the tension system is always active and controlled, the tension will vary with conveyor loading and this will cause wear and slippage etc on the belt. This is particularly important if the length of the conveyor is changing as it often does in mining operations.

If the tension is not controlled the belt can slip causing start up problems and excessive wear on the belt. It is also dangerous as all the energy wasted in slip can cause heat build up.

Hagglunds Viking motor with 97% torque efficiency is ideal for this application keeping the difference between pay in and pay out to an absolute minimum. They provide a complete system that controls tension very efficiently and continuously using their hydraulic motors to directly drive the winch at a constant pressure using their power units

which have been customised to give all these features and long trouble free life with minimal maintenance. Gearboxes are eliminated with this direct hydraulic drive improving the performance and simplifying the drive arrangement.

The tension can also be increased for starting up the conveyor under load and then reduced for normal running to get the best operation and life from the belt. It is easy to cater for differing sizes of conveyor by simply changing the motor and pump sizes and the Hagglunds failsafe brakes hold the tension in during shutdown periods or in emergency stop situations.

These systems have been used on surface mining, tunnelling and underground mining including coal mines with explosionproof requirements.

The system has minimal control and is basically start and stop with the necessary interlocks for example to make sure system pressure is available before lifting the brakes. Belt maintenance is also catered for with manual controls of the system.



[www.hub-4.com/directory/372](http://www.hub-4.com/directory/372)

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



# High-torque industrial gearboxes come in high-integrity single-piece housings

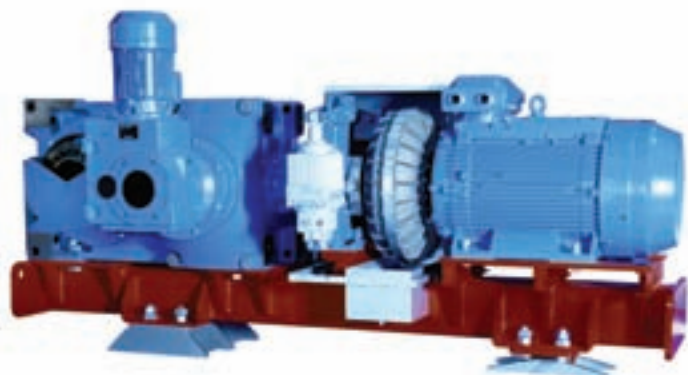
**Single casting with integrated bearing seats minimises oil leakage possibilities with helical or bevel gear stages that can deliver superb energy efficiencies of up to 96%**

Nord Drivesystems has extended its family of high-integrity industrial gearbox units, adding a family of high-power models with maximum torque ratings up to 200000 Nm.

The new gearboxes employ Nord's proven Unicasé concept. The gearbox case is a single piece casting, with all bearing seats integrated and machined in a single process. This optimises strength and eliminates sealing surfaces that could deflect under the effect of torque or radial forces - minimising the possibility of oil leakage and ensuring precise bearing alignments. The resulting high-integrity gearboxes deliver smooth, low noise operation with an extended long product life.

There are four choices in the new High Power Unicasé family, offering maximum torques of 60000, 90000, 135000 or 200000 Nm. Available in helical-parallel shaft or helical/bevel right-angled drive configurations, a very wide range of gear ratios can be specified using two-, three-, or multi-stage reductions. The gearboxes are ideal power transmission solutions for material handling and processing equipment in applications such as steel manufacture, aggregates, mining and grain handling. The low losses of the helical gearing technology means that Unicasé gearboxes can deliver excellent energy efficiencies of up to 96%-plus.

The gear units conform to Nord Drivesystems' modular design concept. This provides a plug-together approach to add-ons that makes it extremely simple to configure



gearboxes for specific applications. A wide range of accessories includes brakes, backstops, a drywell solution, condition monitoring equipment, and a choice of cooling systems. Combined with the flexibility to be mounted on six sides, or via an optional flange, the new gearboxes can be adapted easily to provide customer-specific power transmission solutions.

Complete drive solutions can be configured and supplied on bed plate assemblies which could include foot mounted 3 Phase electric motor, soft start fluid couplings, output flexible couplings, ancillary pony drive and any necessary cooling or condition monitoring systems

Because of the gearboxes' inherently high efficiencies, Nord Drivesystems expects the units to appeal strongly to the refurbishment and repair market, especially when replacing older relatively inefficient worm gear units. In such applications, the energy savings will often provide a payback on the investment measured in months.

As with all Nord Drivesystems gearboxes, the company's production line is set up for rapid manufacture of application-specific solutions inline with customer requirements.

More information: <http://nord.com/>

 [www.hub-4.com/directory/614](http://www.hub-4.com/directory/614)

## Complete Materials Handling Solutions

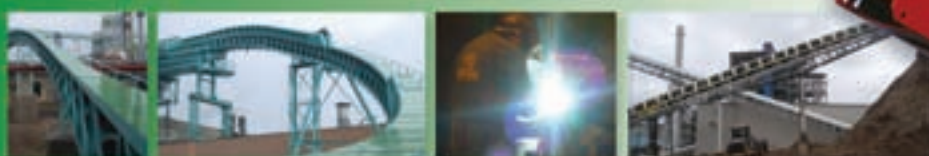


**Enhancing Performance**

Greenbank Materials Handling (GMH) is a leader in engineering design and manufacturing, supplying a global customer base with a wide range of materials handling products and services.

Combining decades of experience with new cutting edge technology, GMH supplies a global customer base with bulk and materials handling solution across a multitude of industries such as; Power, Cement, Steel, Minerals, Glass, Pharmaceuticals, and Ports & Terminals markets.

GMH is also at the forefront of developing solutions for the new and emerging biomass fuel handling market



For more information about Greenbank's products & services visit [www.greenbankgroup.com](http://www.greenbankgroup.com)



# Quarry Plant & Industry Ltd.

**Q.P.I. are a leading supplier of conveyor belting, rollers & conveyor components in the UK. With their new purpose built head quarters based in Leicestershire, England, QPI are within easy reach of almost any destination in the UK.**

Established in 1995 they have seen sales grow significantly over the past years.

Q.P.I. believe the reason for this is due to their commitment to high standards. Q.P.I. continually seek out new global manufacturers for the highest quality products at the best possible prices. They believe combining this with superior customer service puts them ahead of the competition.

Q.P.I. currently employ 23 full time permanent personnel including 6 teams of on-site vulcanising engineers, site fitters & a coded welding engineer.



Their continual staff training programme ensures all staff are highly trained on all aspects of their work. With focus in particular to Health & Safety.

Q.P.I. are favoured on all the major aggregate producing companies "preferred supplier" list & have national contracts for products & services including

Conveyor belting, vulcanising, idler rollers & drums.

Growing supply to O.E.M.'s is a good indicator of how competitive this company has become.

Innovative products include the patented UNIROLL system



This revolutionary system allows a selection of end types to be added to the base roller which enables us to supply, ex-stock, a huge quantity of rollers in 4" & 5" diameters.

It also allows problem areas such as material pegging on feed points to be addressed by shrinking the face of the roller & using longer ends.

With stock holding among the biggest in the UK, If you need rollers Q.P.I. have got them!

ENDUROPLY brand conveyor belting.



Q.P.I. Conveyor belt stocks are among the most extensive in the UK.

Holding all specifications of rubber belting they can supply the correct belt for quarrying and crushing applications to the demanding recycling industry.

Other stocked items include large stocks of conveyor drums, Steel backed rubber sheets & tiles & Low friction chute lining materials

Further information please visit

Web site [www.qpiltd.co.uk](http://www.qpiltd.co.uk)



[www.hub-4.com/directory/9151](http://www.hub-4.com/directory/9151)



## MASTER MAGNETS LTD

Incorporating Metal Detection Ltd

Burnt Meadow Road, North Moors Moat, Redditch, Worcestershire B98 9PA  
Tel: +44 (0)1527 65858 Fax: +44 (0)1527 65868 Email: [info@mastermagnets.co.uk](mailto:info@mastermagnets.co.uk)





[www.mastermagnets.com](http://www.mastermagnets.com)



# MARKET PLACE

## HUB

Global News and Information on the Bulk Materials Handling, Recycling and Quarrying Industries

### BAGGING MACHINERY

#### BRIAN PIKE PACKAGING

(previously Dell Engineering)  
2 Roberts Road, Salisbury

Manufacturers of High Speed Bagging Machines

- 500/100Kg Bulk
- 25/50Kg Plastic

Tel: 01264 710367  
07818 442124  
01722 325078

### BELT CONVEYOR PRODUCTS

Total System Solutions to help you increase belt conveyor uptime and improve productivity

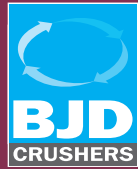
Email: sales@flexco.co.uk  
Tel: 01274 600942  
Fax: 01274 673644



www.flexco.co.uk

### CRUSHER SPARES

Manufacturer of Crushing and Size Reduction Equipment



T. 01226 241425  
Fax. 01226 296713

www.bjdcrushers.co.uk

### DUST AND ODOUR SUPPRESSION



Specialists in the design, supply and installation of NEW and REFURBISHED dust and fume extraction products. Established 1997

Tel: 01744 733 211  
Fax: 01744 730 300

www.airtecfiltration.com

### BELT SPEED/SLIP MONITORING

WestWeigh

WestWeigh Controls Limited

Tel 01932 344443

www.westweigh.com

### CONVEYORS

Quality Conveyor rollers, Motorised Pulleys and Troughing sets



www.rulmeca.com

rball@rulmeca.com

01536 748525

### DUST AND ODOUR SUPPRESSION



162 Chiltern Drive,  
Berrylands  
Surrey  
KT5 8LS

Tel: 0208 399 9991  
Fax: 0208 390 2004

email: airmix@aol.com  
www.dustechengineering.com

### FEEDERS

Vibratory feeders and Expertise

SKAKO comessa

www.skakocomessa.com  
skakocomessa@btconnect.com  
01937 838010

### BELT WEIGHERS



25 years experience of belt weighers, weigh feeders, batching and conveyor blending systems

01484 400334  
www.hkprocess.co.uk

### CONVEYOR SAFETY SWITCHES

WestWeigh

WestWeigh Controls Limited

Tel 01932 344443

www.westweigh.com

### CRUSHER SPARES



INSTANT CRUSHER SPARES  
Leading supplier of quality crusher wear parts

www.instantcrushersparses.co.uk  
01352 732284



Over 15 years experience

Odour control  
Mobile systems for hire/purchase  
Dust control - misting/nozzle  
Lines/sprinklers/foam  
Quarry dust control - buffalo  
Turbine/spraystream 40

Odourdust@aol.com  
www.odourdust.co.uk

Tel: 01560 485898

### HAMMERMILLS

LANWAY HAMMERMILLS

High Quality Size Reduction Machinery



01299 861733

www.lanway.ltd.uk

HUB

If you would like to advertise in Market Place call  
0845 6800024

HUB

If you would like to advertise in Market Place call  
0845 6800024



### INSURANCE

“There's going to be a real Ding-Dong when the bell goes”

David Coleman

Richard Wallis have been providing insurance schemes and bespoke covers to all areas of the waste industry for over 40 years now. From Skip Hirers to Transfer Stations, Waste Recyclers to Landfill Sites we have the experience and expertise to help you and your clients.

For further information, please contact a member of our team on **0121 778 5751** or visit our website [www.richardwallis.co.uk](http://www.richardwallis.co.uk)

Richard V WALLIS

**GREAT QUOTES GREAT COVER**

### INSURANCE

#### ArthurMarsh & Son

Specialist Insurance for the Waste & Recycling Industry



Freephone  
**0800 3777 797**

Marsh House,  
594 Kingstanding Road,  
Birmingham  
B44 9SH  
0121 382 1001  
[www.am-waste.com](http://www.am-waste.com)

CIWM  
AFFILIATED ORGANISATION

am

### METAL DETECTION

West weigh

WestWeigh  
Controls Limited

Tel 01932 344443

[www.westweigh.com](http://www.westweigh.com)



**METAL DETECTION LTD.**

Over 40 years experience in providing Industrial Metal Detection solutions.

Tel: +44 (0) 1527 658 58

[WWW.METALDETECTION.CO.UK](http://WWW.METALDETECTION.CO.UK)



**MASTER MAGNETS LTD.**

Specialists in the manufacture and supply of industrial magnetic solutions.

Tel: +44 (0) 1527 658 58

[WWW.MASTERMAGNETS.CO.UK](http://WWW.MASTERMAGNETS.CO.UK)

### MATERIAL FLOW AIDS & MATERIAL HANDLING ACCESSORIES

**MARTIN ENGINEERING**

- Air Cannons
- Belt Cleaners
- Transfer Points
- Air Supported Conveyors

'We make your bulk materials handling, cleaner, safer and more productive'

**0115 9464746**

[www.martin-eng.co.uk](http://www.martin-eng.co.uk)

email [info@martin-eng.co.uk](mailto:info@martin-eng.co.uk)

## Don't miss out!

Market Place is published in every edition of the Quarterly Hub-4 Magazine

If you would like to advertise in Market Place call **0845 680 0024**

**HUB**  
**MARKET PLACE**



### SCREENS / SCREENING



**Harpscreen** are the largest manufacturer in the UK of screening media.

We manufacture to suit all makes and models of screening, crushing and recycling equipment.

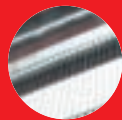
Tel 0845 2020 300  
0845 2020 400  
salesuk@harpscreen.com  
www.harpscreen.com



FINGER SYSTEMS



HIGH TENSILE QUARRY SCREENS



PIANO WIRE SCREENS



CONVEYOR ROLLERS & IDLERS



SELF-CLEANING FLEXI SCREENS

## World class screening solutions

- Polyurethane
- Rubber
- Wire
- Finger Screens
- Ancillary Products
- Screening Applications



**TEMA Isenmann Ltd**  
01327 264227

www.temaisenmann.co.uk

### SWEEPING

**SUTON**  
MACHINERY

Established 1954

**SWEEPING & MATERIALS HANDLING SPECIALISTS**



A wide range of attachments for Loading Shovels, Telehandlers & Tractors.

**SALES, HIRE & SPARES**

**01953 603303**

sales@sweepersuton.co.uk  
www.sweepersuton.co.uk

### USED EQUIPMENT



## ULTRA PLANT

Ultra T-1500 Trommel Screen. Compact trommel screen suitable for wood chip/shavings, compost, C&D Waste and skip waste

Contact UK

**Tel: 02887 747582**

Mobile: 07736 902335 email: info@ultraplantltd.com

**www.ultraplantltd.com**

### USED EQUIPMENT

## FOR SALE



### BL Pegson type 1300 - 45mm Automax Tracked Cone Crusher

Date of manufacture: 2003 (Cone)  
2009 (Chassis) with new Cummins engine & alternator. Transfluid coupling, new rollers & belts, 8m x 1.2m two piece folding discharge, 3.6m x 1.5m feed hopper, new hydraulics & controls.  
Unused since rebuild (January 2009)  
Location: Newton-le-Willows, Merseyside.  
For viewing and further details, please contact:

**Richard Stark**  
Tallon Associates  
475 Chester Road  
Manchester M16 9HF

**Tel: + 44(0) 161 872 7000**

**Phoenix Plant**

**Suppliers of New & Used Equipment to the Recycling Industry**



phoenixplant@gmail.com

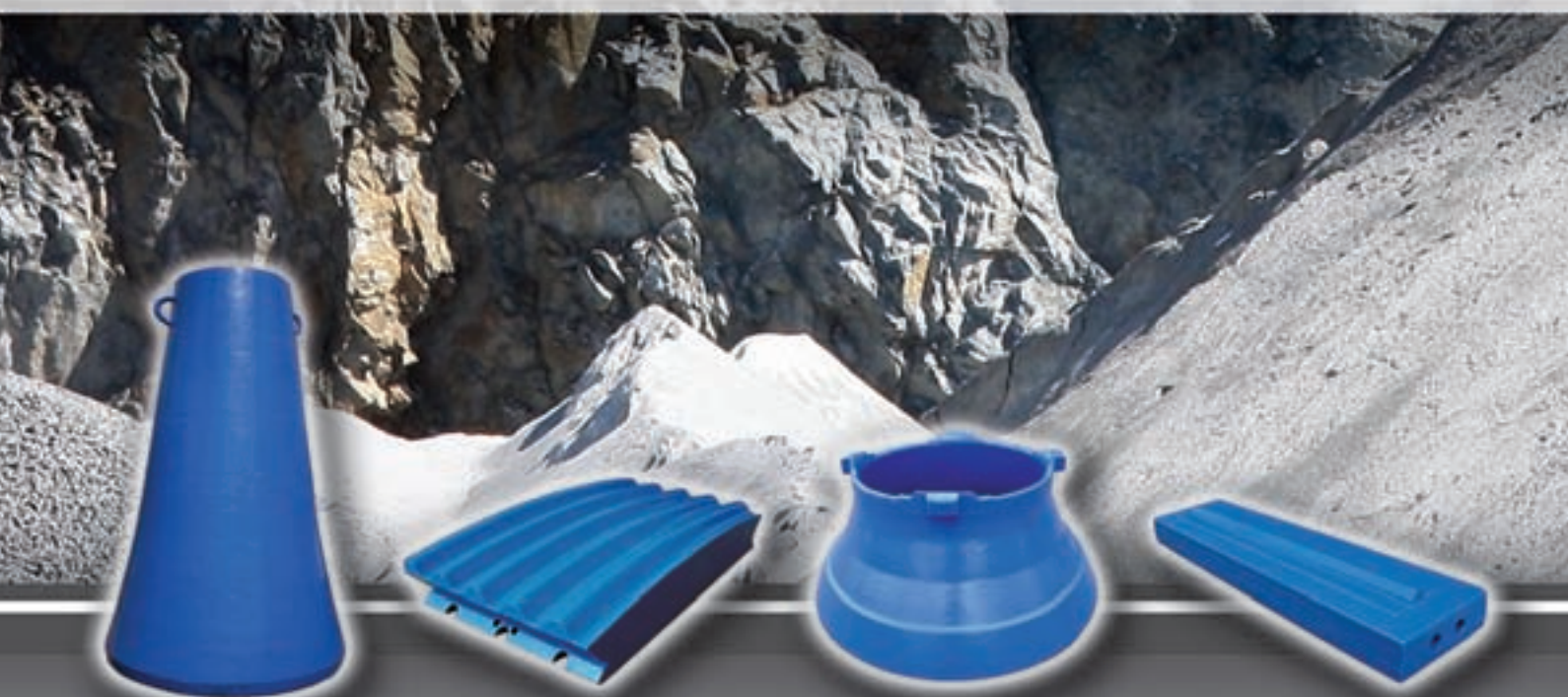
**www.phoenixplant.com**

**01909 726612 / 01909 724842**





Crusher Manganese Steels Limited



*Manufacturer & Supplier of  
Premium Crusher Spare Parts*



Vulcan Way, Hermitage Industrial Estate, Coalville, Leicestershire, LE67 3AP, United Kingdom.  
T: +44 (0) 1530 817 000 F: +44 (0) 1530 817 111 E: [sales@cmscepcor.com](mailto:sales@cmscepcor.com) W: [www.cmscepcor.com](http://www.cmscepcor.com)